



A complete offering of electrical
equipment for explosive atmospheres

Appleton™ ATEX/IECEx Solutions

Lighting, plugs and receptacles, enclosures and junction boxes, control stations and control panels, distribution equipment and hazardous location fittings.



Notes...

Index

Page	Description
ii	Alphanumeric Index
A1	Lighting
B1	Plugs and Receptacles
C1	Enclosures and Junction Boxes
D1	Control Stations and Control Panels
E1	Distribution Equipment
F1	Hazardous Location Fittings

Alphanumeric Index

2P	D102	20SPXREX0505X	F20	32E1FU1255	F13	50E1FW5	F11	63PX2K5	F23
2PM	D102	20SPXREX0755X	F20	32E1FW5	F11	50E1FW2005	F11	63PX2K2505	F23
2RAPIDEX80P	F20	20ST35	F17	32E1FW1005	F11	50E1FW2505	F11	63PX2K3005	F23
2RAPIDEX80P	F24	20ST30505	F17	32E1FW1255	F11	50E1FX5	F9	63PX2KREX5	F24
3RAPIDEX80P	F20	20ST30755	F17	32E1FX5	F9	50E1FX2005	F9	63PX2KREX2505	F24
3RAPIDEX80P	F24	20STE1FU5	F15	32E1FX1005	F9	50E1FX2505	F9	63PX2KREX3005	F24
16DTSPE1TA4L	F5	20STE1FU0505	F15	32E1FX1255	F9	50ET5	F33	63PX5	F19
16DTSPE1TAL	F5	20STE1FU0755	F15	32ET5	F33	50ETS2	F35	63PX2505	F19
16ET5	F33	20SW4	F34	32ETS2	F35	50LN5	F33	63PX3005	F19
16ETS2	F35	20T35	F17	32LN5	F33	050NPTET5	F33	63PXREX5X	F20
16LN5	F33	20T30505	F17	32LPX5	F19	050NPTETS	F35	63PXREX2505X	F20
16SW4	F34	20T30755	F17	32LPX1005	F19	050NPTLN5	F33	63PXREX3005X	F20
20A2F5	F7	20TE1FU5	F15	32LPX1255	F19	050NPTSW4	F34	63SA2F5	F7
20A2F0505	F7	20TE1FU0505	F15	32LPXREX5X	F20	50PX2K5	F23	63SA2F2005	F7
20A2F0755	F7	20TE1FU0755	F15	32LPXREX1005X	F20	50PX2K2005	F23	63SA2F2505	F7
20DTSPE1TA4L	F5	25A2F5	F7	32LPXREX1255X	F20	50PX2K2505	F23	63SE1FU5	F13
20DTSPE1TAL	D15	25A2F0755	F7	32PX2K5	F23	50PX2KREX5	F24	63SE1FU2005	F13
20DTSPE1TAL	D24	25A2F1005	F7	32PX2K1005	F23	50PX2KREX2005	F24	63SE1FU2505	F13
20DTSPE1TAL	D38	25DTSPE1TA4L	F5	32PX2K1255	F23	50PX2KREX2505	F24	63SE1FW5	F11
20DTSPE1TAL	F5	25DTSPE1TAL	F5	32PX2KREX5	F24	50PX5	F19	63SE1FW2005	F11
20E1FU5	F13	25E1FU5	F13	32PX2KREX1005	F24	50PX2005	F19	63SE1FW2505	F11
20E1FU0505	F13	25E1FU0755	F13	32PX2KREX1255	F24	50PX2505	F19	63SE1FX5	F9
20E1FU0755	F13	25E1FU1005	F13	32PX5	F19	50PXREX5X	F20	63SE1FX2005	F9
20E1FW5	D15	25E1FW5	F11	32PX1005	F19	50PXREX2005X	F20	63SE1FX2505	F9
20E1FW5	D38	25E1FW0755	F11	32PX1255	F19	50PXREX2505X	F20	63SPX2K5	F23
20E1FW5	F11	25E1FW1005	F11	32PXREX5X	F20	50SA2F5	F7	63SPX2K2005	F23
20E1FW0505	F11	25E1FX5	F9	32PXREX1005X	F20	50SA2F1505	F7	63SPX2K2505	F23
20E1FW0755	F11	25E1FX0755	F9	32PXREX1255X	F20	50SA2F2005	F7	63SPX2KREX5	F24
20E1FX5	D15	25E1FX1005	F9	32SW4	F34	50SE1FU5	F13	63SPX2KREX2005	F24
20E1FX5	D38	25E1FX5	F33	32T35	F17	50SE1FU1505	F13	63SPX2KREX2505	F24
20E1FX5	F9	25ETS2	F35	32T31005	F17	50SE1FU1505	F13	63SPX5	F19
20E1FX0505	F9	25LN5	F33	32T31255	F17	50SE1FW5	F11	63SPX2005	F19
20E1FX0755	F9	25PX2K5	F23	32TE1FU5	F15	50SE1FW1505	F11	63SPX2505	F19
20ET5	F33	25PX2K0755	F23	32TE1FU1005	F15	50SE1FW1505	F11	63SPXREX5X	F20
20ETS2	D15	25PX2K1005	F23	32TE1FU1255	F15	50SE1FX5	F9	63SPXREX2005X	F20
20ETS2	D24	25PX2KREX5	F24	40A2F5	F7	50SE1FX1505	F9	63SPXREX2505X	F20
20ETS2	D38	25PX2KREX0755	F24	40A2F1255	F7	50SE1FX1505	F9	63ST35	F17
20ETS2	F35	25PX2KREX1005	F24	40A2F1505	F7	50SPX2K5	F23	63ST32005	F17
20LN5	F33	25PX5	F19	40DTSPE1TA4L	F5	50SPX2K1505	F23	63ST32505	F17
20LPX5	F19	25PX0755	F19	40DTSPE1TAL	F5	50SPX2K2005	F23	63STE1FU5	F15
20LPX0505	F19	25PX1005	F19	40E1FU5	F13	50SPX2KREX5	F24	63STE1FU2005	F15
20LPX0755	F19	25PXREX5X	F20	40E1FU1255	F13	50SPX2KREX1505	F24	63STE1FU2505	F15
20LPXREX5X	F20	25PXREX0755X	F20	40E1FU1505	F13	50SPX2KREX2005	F24	63SW4	F34
20LPXREX0505X	F20	25PXREX1005X	F20	40E1FW5	F11	50SPX5	F19	63T35	F17
20LPXREX0755X	F20	25SE1FU5	F13	40E1FW1255	F11	50SPX1505	F19	63T32505	F17
20PX2K5	F23	25SE1FU0755	F13	40E1FW1505	F11	50SPX2005	F19	63T33005	F17
20PX2K0505	F23	25SE1FU1005	F13	40E1FX5	F9	50SPXREX5X	F20	63TE1FU5	F15
20PX2K0755	F23	25SE1FW5	F11	40E1FX1255	F9	50SPXREX1505X	F20	63TE1FU2505	F15
20PX2KREX5	F24	25SE1FW0755	F11	40E1FX1505	F9	50SPXREX2005X	F20	63TE1FU3005	F15
20PX2KREX0505	F24	25SE1FW1005	F11	40ET5	F33	50ST35	F17	75A2F5	F7
20PX2KREX0755	F24	25SE1FX5	F9	40ETS2	F35	50ST31505	F17	75A2F3005	F7
20PX5	F19	25SE1FX0755	F9	40LN5	F33	50ST32005	F17	75A2F3505	F7
20PX0505	F19	25SE1FX1005	F9	40PX2K5	F23	50STE1FU5	F15	75E1FU5	F13
20PX0755	F19	25SPX2K5	F23	40PX2K1255	F23	50STE1FU1505	F15	75E1FU3005	F13
20PXREX5X	F20	25SPX2K0755	F23	40PX2K1505	F23	50STE1FU2005	F15	75E1FU3505	F13
20PXREX0505X	F20	25SPX2K1005	F23	40PX2KREX5	F24	50SW4	F34	75E1FW5	F11
20PXREX0755X	F20	25SPX2KREX5	F24	40PX2KREX1255	F24	50T35	F17	75E1FW3005	F11
20SA2F5	F7	25SPX2KREX0755	F24	40PX2KREX1505	F24	50T32005	F17	75E1FW3505	F11
20SA2F0505	F7	25SPX2KREX1005	F24	40PX5	F19	50T32505	F17	75E1FX5	F9
20SA2F0755	F7	25ST35	F17	40PX1255	F19	50TE1FU5	F15	75E1FX3005	F9
20SE1FU5	F13	25ST30755	F17	40PX1505	F19	50TE1FU2005	F15	75E1FX3505	F9
20SE1FU0505	F13	25ST31005	F17	40PXREX5X	F20	50TE1FU2505	F15	75ET5	F33
20SE1FU0755	F13	25STE1FU5	F15	40PXREX1255X	F20	63A2F5	F7	75ETS2	F35
20SE1FW5	F11	25STE1FU0755	F15	40PXREX1505X	F20	63A2F2505	F7	75LN5	F33
20SE1FW0505	F11	25STE1FU1005	F15	40SW4	F34	63A2F3005	F7	075NPTET5	F33
20SE1FX5	F9	25SW4	F34	40T35	F17	63DTSPE1TA4L	F5	075NPTETS	F35
20SE1FX0505	F9	25T35	F17	40T31255	F17	63DTSPE1TAL	F5	075NPTLN5	F33
20SE1FX0755	F9	25T30755	F17	40T31505	F17	63E1FU5	F13	075NPTSW4	F34
20SPX2K5	F23	25T31005	F17	40TE1FU5	F15	63E1FU2505	F13	75PX2K5	F23
20SPX2K0505	F23	25TE1FU5	F15	40TE1FU1255	F15	63E1FU3005	F13	75PX2K3005	F23
20SPX2K0755	F23	25TE1FU1005	F15	40TE1FU1505	F15	63E1FW5	F11	75PX2K3505	F23
20SPX2KREX5	F24	32A2F5	F7	50A2F5	F7	63E1FW2505	F11	75PX2KREX5	F24
20SPX2KREX0505	F24	32A2F1005	F7	50A2F2005	F7	63E1FW3005	F11	75PX2KREX3005	F24
20SPX2KREX0755	F24	32A2F1255	F7	50A2F2505	F7	63E1FX5	F9	75PX2KREX3505	F24
20SPX5	F19	32DTSPE1TA4L	F5	50DTSPE1TA4L	F5	63E1FX2505	F9	75PX5	F19
20SPX0505	F19	32DTSPE1TAL	F5	50DTSPE1TAL	F5	63E1FX3005	F9	75PX3005	F19
20SPX0755	F19	32E1FU5	F13	50E1FU5	F13	63ET5	F33	75PX3505	F19
20SPXREX5X	F20	32E1FU1005	F13	50E1FU2005	F13	63ETS2	F35	75PXREX5X	F20
				50E1FU2505	F13	63LN5	F33	75PXREX3005X	F20

Alphanumeric Index

75PXREX3505X	F20	100E1FU3505	F13	737DM2T15	D15	747DM95	F29	18442P21-104	D86
75SA2F5	F7	100E1FU4005	F13	737DM2T15	D38	747DT15	F29	18442P21-105	D86
75SA2F2505	F7	100E1FW5	F11	737DM2T15	F28	747DT25	F29	18442P21-106	D86
75SA2F3005	F7	100E1FW3505	F11	737DM2T25	D15	747DT35	F29	18442P21-107	D86
75SE1FU5	F13	100E1FW4005	F11	737DM2T25	D38	747DT45	F29	18442P21-108	D86
75SE1FU2505	F13	100E1FX5	F9	737DM2T25	F28	747DT55	F29	18442P21-109	D86
75SE1FU3005	F13	100E1FX3505	F9	737DM3M15	F28	747DT65	F29	18442P21-110	D86
75SE1FW5	F11	100E1FX4005	F9	737DM3M25	F28	747DT75	F29	18442P21-111	D86
75SE1FW2505	F11	100ET5	F33	737DM3M45	F28	747DT85	F29	18442P21-112	D86
75SE1FW3005	F11	100NPTET5	F33	737DM3T25	F28	757DM15	F31	18442P21-113	D86
75SE1FX5	F9	100NPTETS	F35	737DM3T35	F28	757DM25	F31	18442P21-114	D86
75SE1FX2505	F9	100NPTLN5	F33	737DM4M25	F28	757DM35	F31	18442P21-115	D86
75SE1FX3005	F9	100NPTS4	F34	737DM4M35	F28	757DM45	F31	18442P21-501	D86
75SPX2K5	F23	100T35	F17	737DM4M55	F28	757DM55	F31	18442P21-502	D86
75SPX2K2505	F23	100T33505	F17	737DM4T35	F28	757DM65	F31	18442P21-503	D86
75SPX2K3005	F23	100T34005	F17	737DM4T45	F28	757DM75	F31	18442P21-504	D86
75SPX2KREX5	F24	100TE1FU5	F15	737DM5M35	F28	757DM85	F31	18442P21-505	D86
75SPX2KREX2505	F24	100TE1FU3505	F15	737DM5M45	F28	757DM95	F31	18442P21-506	D86
75SPX2KREX3005	F24	100TE1FU4005	F15	737DM5M65	F28	757DM105	F31	18442P21-507	D86
75SPX5	F19	115A2F5	F7	737DM5T45	F28	757DT15	F31	18442P21-508	D86
75SPX2505	F19	115A2F4005	F7	737DM5T55	F28	757DT25	F31	18442P21-509	D86
75SPX3005	F19	115A2F5005	F7	737DM6M45	F28	757DT35	F31	18442P21-510	D86
75SPXREX5X	F20	115E1FU5	F13	737DM6M55	F28	757DT45	F31	18442P21-511	D86
75SPXREX2505X	F20	115E1FU4005	F13	737DM6M75	F28	757DT55	F31	18442P21-512	D86
75SPXREX3005X	F20	115E1FU5005	F13	737DM6T55	F28	757DT65	F31	18442P21-513	D86
75ST35	F17	115E1FW5	F11	737DM6T65	F28	757DT75	F31	18442P21-514	D86
75ST32505	F17	115E1FW4005	F11	737DM7M55	F28	757DT85	F31	18442P21-515	D86
75ST33005	F17	115E1FW5005	F11	737DM7M65	F28	757DT95	F31	18442P22-101	D86
75STE1FU5	F15	115E1FX5	F9	737DM7M85	F28	757DT105	F31	18442P22-102	D86
75STE1FU2505	F15	115E1FX4005	F9	737DM7T65	F28	767DM15	F32	18442P22-103	D86
75STE1FU3005	F15	115E1FX5005	F9	737DM7T75	F28	767DM25	F32	18442P22-104	D86
75SW4	F34	115T35	F17	737DM8M65	F28	767DM35	F32	18442P22-105	D86
75T35	F17	115T34005	F17	737DM8M75	F28	767DM45	F32	18442P22-106	D86
75T33005	F17	115T35005	F17	737DM8M95	F28	767DM55	F32	18442P22-107	D86
75T33505	F17	115TE1FU5	F15	737DM8T75	F28	767DM65	F32	18442P22-108	D86
75TE1FU5	F15	115TE1FU4005	F15	737DM8T85	F28	767DM75	F32	18442P22-109	D86
75TE1FU3005	F15	115TE1FU5005	F15	737DM9M105	F28	767DM85	F32	18442P22-110	D86
75TE1FU3505	F15	125NPTET5	F33	737DT1M25	F28	767DM95	F32	18442P22-111	D86
90A2F5	F7	125NPTETS	F35	737DT1T25	F28	767DT15	F32	18442P22-112	D86
90A2F3505	F7	125NPTLN5	F33	737DT2M25	A95	767DT25	F32	18442P22-113	D86
90A2F4005	F7	125NPTS4	F34	737DT2M25	A180	767DT35	F32	18442P22-114	D86
90E1FU5	F13	130A2F5	F7	737DT2M25	F28	767DT45	F32	18442P22-115	D86
90E1FU3505	F13	130A2F5005	F7	737DT2M35	F28	767DT55	F32	18442P22-501	D86
90E1FU4005	F13	130A2F6005	F7	737DT2T15	F28	767DT65	F32	18442P22-502	D86
90E1FW5	F11	130E1FU5	F13	737DT3M35	F28	767DT75	F32	18442P22-503	D86
90E1FW3505	F11	130E1FU5005	F13	737DT3M45	F28	767DT85	F32	18442P22-504	D86
90E1FW4005	F11	130E1FW5	F11	737DT3T15	F28	2016A2F5	F7	18442P22-505	D86
90E1FX5	F9	130E1FW5005	F11	737DT3T25	F28	2016A2F0505	F7	18442P22-506	D86
90E1FX3505	F9	130E1FX5	F9	737DT4M45	F28	2016A2F0755	F7	18442P22-507	D86
90E1FX4005	F9	130E1FX5005	F9	737DT4M55	F28	2016E1FU5	F13	18442P22-508	D86
90ET5	F33	130T35	F17	737DT4T25	F28	2016E1FU0505	F13	18442P22-509	D86
90ETS2	F35	130T35005	F17	737DT4T35	F28	2016E1FU0755	F13	18442P22-510	D86
90LN5	F33	130TE1FU5	F15	737DT5M55	F28	2016E1FW5	F11	18442P22-511	D86
90PX2K5	F23	130TE1FU5005	F15	737DT5M65	F28	2016E1FW0505	F11	18442P22-512	D86
90PX2K3505	F23	150NPTET5	F33	737DT5T35	F28	2016E1FW0755	F11	18442P22-513	D86
90PX2K4005	F23	150NPTETS	F35	737DT5T45	F28	2016E1FX5	F9	18442P22-514	D86
90PX2KREX5	F24	150NPTLN5	F33	737DT6M65	F28	2016E1FX0505	F9	18442P22-515	D86
90PX2KREX3505	F24	150SPTNW4	F34	737DT6M75	F28	2016E1FX0755	F9	18442P23-101	D86
90PX2KREX4005	F24	200NPTET5	F33	737DT6T45	F28	2016PX2K5	F23	18442P23-102	D86
90PX5	F19	200NPTETS	F35	737DT6T55	F28	2016PX2K0505	F23	18442P23-103	D86
90PX3505	F19	200NPTLN5	F33	737DT7M75	F28	2016PX2K0505	F23	18442P23-104	D86
90PX4005	F19	200NPTS4	F34	737DT7M85	F28	2016PX2KREX5	F24	18442P23-105	D86
90PXREX5	F24	00249-2612-0001	A19	737DT7T55	F28	2016PX2KREX0505	F24	18442P23-106	D86
90PXREX5X	F20	250NPTET5	F33	737DT7T65	F28	2016PX2KREX0505	F24	18442P23-107	D86
90PXREX3505	F24	250NPTETS	F35	737DT8M85	F28	2016PX5	F19	18442P23-108	D86
90PXREX3505X	F20	250NPTLN5	F33	737DT8T65	F28	2016PX0505	F19	18442P23-109	D86
90PXREX4005	F24	250NPTS4	F34	737DT8T75	F28	2016PX0755	F19	18442P23-110	D86
90PXREX4005X	F20	300NPTET5	F33	737DT9T75	F28	2016PXREX5X	F20	18442P23-111	D86
90SW4	F34	300NPTETS	F35	737DT9T85	F28	2016PXREX0505X	F20	18442P23-112	D86
90T35	F17	300NPTLN5	F33	737DT10T85	F28	2016PXREX0755X	F20	18442P23-113	D86
90T33505	F17	300NPTS4	F34	737DT10T95	F28	2016T35	F17	18442P23-114	D86
90T34005	F17	350NPTET5	F33	747DM15	F29	2016T30505	F17	18442P23-115	D86
90TE1FU5	F15	350NPTETS	F35	747DM25	F29	2016T30755	F17	18442P23-501	D86
90TE1FU3505	F15	350NPTLN5	F33	747DM35	F29	2016TE1FU5	F15	18442P23-502	D86
90TE1FU4005	F15	701PGNKF	A19	747DM45	F29	2016TE1FU0505	F15	18442P23-503	D86
100A2F5	F7	737DM1M25	F28	747DM55	F29	2016TE1FU0755	F15	18442P23-504	D86
100A2F3505	F7	737DM1T15	F28	747DM65	F29	18442P21-101	D86	18442P23-505	D86
100A2F4005	F7	737DM2M15	F28	747DM75	F29	18442P21-102	D86	18442P23-506	D86
100E1FU5	F13	737DM2M35	F28	747DM85	F29	18442P21-103	D86	18442P23-507	D86

Alphanumeric Index

18442P23-508	D86	18442Q52-506	D85	093958	D104	ACSEW101408X#	D100	AMHZFROST	A327
18442P23-509	D86	18442Q52-507	D85	093959	D105	ACSEW141408X#	D100	AMLEDSF1	A308
18442P23-510	D86	18442Q52-507	D85	096039	C73	ACSEW161812X#	D100	AMLEDSF1	A326
18442P23-511	D86	18442Q52-508	D85	096041	C73	ACSEW181808X#	D100	AMLEDSF1	A343
18442P23-512	D86	18442Q52-508	D85	096044	C73	ACSEW182410X#	D100	AMLGCLEAR	A309
18442P23-513	D86	18442Q52-509	D85	096115	C69	ACSEW183610X#	D100	AMLGCLEAR	A344
18442P23-514	D86	18442Q52-509	D85	097200	C87	ACSEW242408X#	D100	AMLGDIFFP	A309
18442P23-515	D86	18442Q52-510	D85	097201	C87	ACSEW243610X#	D100	AMLGDIFFP	A344
18442P24-101	D86	18442Q52-510	D85	097202	C87	ACSEW303808X#	D100	AMLGFROST	A309
18442P24-102	D86	18442Q52-511	D85	097203	C69	AGE111410	C64	AMLGFROST	A344
18442P24-103	D86	18442Q52-511	D85	097203	C86	AGE131308	C64	AMLGV	A309
18442P24-104	D86	18442Q52-512	D85	097204	C69	AGE132212	C64	AMLGV	A327
18442P24-105	D86	18442Q52-512	D85	097204	C86	AGE141110	C64	AMLGV	A344
18442P24-106	D86	18442Q52-513	D85	097206	C87	AGE182612	C63	AMLHCLEAR	A309
18442P24-107	D86	18442Q52-513	D85	097207	C87	AGE221312	C64	AMLHCLEAR	A344
18442P24-108	D86	18442Q52-514	D85	097207	C87	AGE223612	C63	AMLHFROST	A309
18442P24-109	D86	18442Q52-514	D85	097230	C86	AGE223617	C63	AMLHFROST	A344
18442P24-110	D86	18442Q52-515	D85	097231	C86	AGE261812	C63	AMLHV	A309
18442P24-111	D86	18442Q52-515	D85	097232	C86	AGE334516	C63	AMLHV	A327
18442P24-112	D86	18442Q53-101	D85	097233	C86	AGE334524	C63	AMLHV	A344
18442P24-113	D86	18442Q53-102	D85	097234	C86	AGE362212	C63	AMLYMAB	A327
18442P24-114	D86	18442Q53-103	D85	097235	C86	AGE362217	C63	AMLYMCH	A248
18442P24-115	D86	18442Q53-104	D85	097240	C86	AGE363612	C63	AMLYMCH	A270
18442P24-501	D86	18442Q53-105	D85	097241	C86	AGE363617	C63	AMLYMCH	A309
18442P24-502	D86	18442Q53-106	D85	097242	C86	AGE405222	C63	AMLYMCH	A344
18442P24-503	D86	18442Q53-107	D85	097243	C86	AGE427216	C64	AMLYMSS	A248
18442P24-504	D86	18442Q53-108	D85	097244	C86	AGE427224	C64	AMLYMSS	A270
18442P24-505	D86	18442Q53-109	D85	097245	C86	AGE453316	C63	AMLYMSS	A309
18442P24-506	D86	18442Q53-109	D85	097246	C86	AGE453324	C63	AMLYMSS	A327
18442P24-507	D86	18442Q53-111	D85	097247	C86	AGE524022	C63	AMLYMSS	A344
18442P24-508	D86	18442Q53-112	D85	097250	C86	AGE724216	C64	AMLZCLEAR	A327
18442P24-509	D86	18442Q53-113	D85	097251	C86	AGE724224	C64	AMLZFROST	A327
18442P24-510	D86	18442Q53-114	D85	097252	C86	AGLCS111410	D48	APDAC 08 #	C18
18442P24-511	D86	18442Q53-115	D85	097253	C86	AGLCS122209	D48	APDAC 08 T1#	C18
18442P24-512	D86	18442Q53-501	D85	097254	C86	AGLCS131308	D48	APDAC 08 T2 #	C18
18442P24-513	D86	18442Q53-502	D85	097255	C86	AGLCS132212	D48	APDAC 08 X1 #	C18
18442P24-514	D86	18442Q53-503	D85	097263	C87	AGLCS141110	D48	APDAC 08 X2 #	C18
18442P24-515	D86	18442Q53-504	D85	097264	C87	AGLCS162609	D48	APDAC 13 #	C18
18442Q51-101	D85	18442Q53-505	D85	097265	C87	AGLCS163609	D48	APDAC 13 #	D102
18442Q51-102	D85	18442Q53-506	D85	097270	C69	AGLCS182612	D48	APDAC 13 A1 #	C18
18442Q51-103	D85	18442Q53-507	D85	097270	C86	AGLCS221209	D48	APDAC 13 A2 B1 #	C18
18442Q51-104	D85	18442Q53-508	D85	097271	C69	AGLCS221312	D48	APDAC 13 A3 B3 #	C18
18442Q51-105	D85	18442Q53-509	D85	097271	C86	AGLCS223612	D48	APDAC 13P IR2 A1 #	D102
18442Q51-106	D85	18442Q53-510	D85	097272	C69	AGLCS223617	D48	APDAC 13P P162 A1 #	D102
18442Q51-107	D85	18442Q53-511	D85	097272	C86	AGLCS261609	D48	APDAC 13P P323 A2 #	D102
18442Q51-108	D85	18442Q53-512	D85	097273	C69	AGLCS261812	D48	APMS050C135HD10	A82
18442Q51-109	D85	18442Q53-513	D85	097273	C86	AGLCS334516	D48	APMS050C135HD10	A169
18442Q51-110	D85	18442Q53-514	D85	097274	C69	AGLCS334524	D48	APMS050C135HD13	A82
18442Q51-111	D85	18442Q53-515	D85	097274	C86	AGLCS361609	D48	APMS050C135HD13	A169
18442Q51-112	D85	18442Q54-101	D85	097275	C86	AGLCS362212	D48	APMS050C135HD50	A42
18442Q51-113	D85	18442Q54-102	D85	097277	C87	AGLCS362217	D48	APMS050C135HD50	A43
18442Q51-114	D85	18442Q54-103	D85	097278	C87	AGLCS363612	D48	APMS050C135HD50	A144
18442Q51-115	D85	18442Q54-104	D85	097279	C87	AGLCS363617	D48	APMS050C135HD50	A145
18442Q52-101	D85	18442Q54-105	D85	097280	C87	AGLCS405222	D48	APMS050C135HD55	A81
18442Q52-102	D85	18442Q54-106	D85	097281	C87	AGLCS427216	D49	APMS050C135HD55	A168
18442Q52-103	D85	18442Q54-107	D85	097282	C87	AGLCS427224	D49	APMS050C135HD64	A82
18442Q52-104	D85	18442Q54-108	D85	097283	C87	AGLCS453316	D48	APMS050C135HD64	A169
18442Q52-105	D85	18442Q54-109	D85	097284	C87	AGLCS453324	D48	APMS050C135HD72	A81
18442Q52-106	D85	18442Q54-110	D85	097285	C87	AGLCS524022	D48	APMS050C135HD72	A168
18442Q52-107	D85	18442Q54-111	D85	097286	C87	AGLCS724216	D49	APMS050C135HD78	A42
18442Q52-108	D85	18442Q54-112	D85	097287	C87	AGLCS724224	D49	APMS050C135HD78	A43
18442Q52-109	D85	18442Q54-113	D85	097288	C87	AH 2315-S	C14	APMS050C135HD78	A144
18442Q52-110	D85	18442Q54-114	D85	098656	D22	AH 2315-Z	C14	APMS050C135HD78	A144
18442Q52-111	D85	18442Q54-115	D85	098657	D15	AH 3527-S	C14	APMS050C135HD78	A145
18442Q52-112	D85	18442Q54-501	D85	098657	D24	AH 3527-Z	C14	APMS050C135HD78	A169
18442Q52-113	D85	18442Q54-502	D85	098657	D38	AH 4040-S	C14	APMS050C135HD82	A82
18442Q52-114	D85	18442Q54-503	D85	098657	D82	AH 4040-Z	C14	APMS050C135HD82	A169
18442Q52-115	D85	18442Q54-504	D85	500146	F38	AH 4545-S	C14	APMS050C135UD10	A82
18442Q52-501	D85	18442Q54-505	D85	500147	F38	AH 4545-Z	C14	APMS050C135UD10	A169
18442Q52-501	D85	18442Q54-506	D85	500148	F38	AH 5565-S	C14	APMS050C135UD13	A82
18442Q52-502	D85	18442Q54-507	D85	500149	F38	AH 5565-Z	C14	APMS050C135UD13	A169
18442Q52-502	D85	18442Q54-508	D85	500150	F38	AH 6196-S	C14	APMS050C135UD48	A83
18442Q52-503	D85	18442Q54-509	D85	500151	F38	AH 6196-Z	C14	APMS050C135UD48	A170
18442Q52-503	D85	18442Q54-510	D85	500152	F38	AH 7575-S	C14	APMS050C135UD50	A42
18442Q52-504	D85	18442Q54-511	D85	500153	F38	AH 7575-Z	C14	APMS050C135UD50	A43
18442Q52-504	D85	18442Q54-512	D85	500154	F38	AH 7595-S	C14	APMS050C135UD50	A95
18442Q52-505	D85	18442Q54-513	D85	500155	F38	AH 7595-Z	C14	APMS050C135UD50	A144
18442Q52-505	D85	18442Q54-514	D85	ACSEW060604X#	D100	ALCS263720xxH	D54	APMS050C135UD50	A145
18442Q52-506	D85	18442Q54-515	D85	ACSEW101006X#	D100	AMHZCLEAR	A327	APMS050C135UD50	A180

Alphanumeric Index

APMS050C135UD51	A107	APMS150C105HD65	A249	APMZ240UD1152	A289	APMZ050L135UD10	A204	APP-FS-1-75	A84
APMS050C135UD51X2	A107	APMS150C105HD65	A271	APMZ240UD1152	A289	APMZ050L135UD13	A82	APP-FS-1-75	A310
APMS050C135UD52	A231	APMS150C105HD65	A271	APMZ050C130DC3	A191	APMZ050L135UD13	A169	APP-FS-1-75-A	A45
APMS050C135UD55	A81	APMS150C105HD65	A311	APMZ050C130DC3	A204	APMZ050L135UD30	A191	APP-FS-1-75-A	A84
APMS050C135UD55	A83	APMS150C105HD65	A311	APMZ050C130DC3A	A191	APMZ050L135UD30	A204	APP-FS-1-75-A	A310
APMS050C135UD55	A168	APMS150C105HD65	A345	APMZ050C130DC3A	A204	APMZ050L135UD31	A191	APPFUSEZ1	A190
APMS050C135UD55	A170	APMS150C105HD65	A345	APMZ050C130DC10	A82	APMZ050L135UD31	A204	APPFUSEZ1	A203
APMS050C135UD60	A231	APMS150C105HD68	A249	APMZ050C130DC10	A82	APMZ050L135UD32	A191	APPFUSEZ1	A214
APMS050C135UD60X2	A107	APMS150C105HD68	A249	APMZ050C130DC10	A169	APMZ050L135UD32	A204	APPFUSEZ1	A231
APMS050C135UD60X4	A107	APMS150C105HD68	A271	APMZ050C130DC10	A169	APMZ050L135UD42	A191	ASLCS121215xxB	D53
APMS050C135UD61	A83	APMS150C105HD68	A271	APMZ050C130DC10	A191	APMZ050L135UD42	A204	ASLCS121295xxB	D53
APMS050C135UD61	A170	APMS150C105HD68	A311	APMZ050C130DC10	A204	APMZ050L135UD46	A191	ASLCS181215xxB	D53
APMS050C135UD64	A82	APMS150C105HD68	A311	APMZ050C130DC13	A82	APMZ050L135UD46	A204	ASLCS181295xxB	D53
APMS050C135UD64	A83	APMS150C105HD68	A345	APMZ050C130DC13	A82	APMZ050L135UD48	A191	ASLCS181815xxB	D53
APMS050C135UD64	A169	APMS150C105HD68	A345	APMZ050C130DC13	A169	APMZ050L135UD48	A204	ASLCS181895xxB	D53
APMS050C135UD64	A170	APMS150C105HD72	A42	APMZ050C130DC13	A169	APMZ050L135UD50	A95	ASLCS221815xxB	D53
APMS050C135UD69	A107	APMS150C105HD72	A144	APMZ050C130DC30	A191	APMZ050L135UD50	A180	ASLCS221895xxB	D53
APMS050C135UD69X2	A107	APMS150C105HD89	A249	APMZ050C130DC30	A204	APMZ050L135UD55	A81	ASLCS222215xxB	D53
APMS050C135UD69X4	A107	APMS150C105HD89	A249	APMZ050C130DC31	A191	APMZ050L135UD55	A168	ASLCS222220xxB	D53
APMS050C135UD70	A231	APMS150C105HD89	A271	APMZ050C130DC31	A204	APMZ050L135UD56	A191	ASLCS262215xxB	D53
APMS050C135UD72	A81	APMS150C105HD89	A271	APMZ050C130DC32	A191	APMZ050L135UD56	A204	ASLCS262215xxH	D53
APMS050C135UD72	A168	APMS150C105HD89	A311	APMZ050C130DC32	A204	APMZ050L135UD56	A214	ASLCS262215xxL	D54
APMS050C135UD75	A83	APMS150C105HD89	A311	APMZ050C130DC42	A191	APMZ050L135UD64	A82	ASLCS262220xxB	D53
APMS050C135UD75	A170	APMS150C105HD89	A345	APMZ050C130DC42	A204	APMZ050L135UD64	A169	ASLCS262220xxH	D53
APMS050C135UD78	A42	APMS150C105HD89	A345	APMZ050C130DC46	A191	APMZ050L135UD72	A81	ASLCS262220xxL	D54
APMS050C135UD78	A43	APMS150C105HD90	A42	APMZ050C130DC46	A204	APMZ050L135UD72	A168	ASLCS262230xxB	D53
APMS050C135UD78	A82	APMS150C105HD90	A144	APMZ050C130DC48	A191	APMZ050L135UD78	A82	ASLCS262230xxH	D53
APMS050C135UD78	A83	APMS150C105HD91	A249	APMZ050C130DC48	A204	APMZ050L135UD78	A169	ASLCS262230xxL	D54
APMS050C135UD78	A144	APMS150C105HD91	A271	APMZ050C130DC50	A95	APMZ050L135UD82	A82	ASLCS262615xxB	D54
APMS050C135UD78	A145	APMS150C105HD91	A311	APMZ050C130DC50	A95	APMZ050L135UD82	A95	ASLCS262615xxH	D54
APMS050C135UD78	A169	APMS150C105HD91	A345	APMZ050C130DC50	A180	APMZ050L135UD82	A169	ASLCS262615xxL	D54
APMS050C135UD78	A170	APMS150C105HD93	A249	APMZ050C130DC50	A180	APMZ050L135UD82	A180	ASLCS262620xxB	D54
APMS050C135UD82	A82	APMS150C105HD93	A271	APMZ050C130DC55	A81	APMZ050L135UD84	A191	ASLCS262620xxH	D54
APMS050C135UD82	A83	APMS150C105HD93	A311	APMZ050C130DC55	A81	APMZ050L135UD84	A204	ASLCS262620xxL	D54
APMS050C135UD82	A95	APMS150C105HD93	A345	APMZ050C130DC55	A168	APMZ050L135UD89	A191	ASLCS262630xxB	D54
APMS050C135UD82	A169	APMS150C105UD65	A42	APMZ050C130DC55	A168	APMZ050L135UD89	A204	ASLCS262630xxH	D54
APMS050C135UD82	A170	APMS150C105UD65	A144	APMZ050C130DC56	A191	APMZ050L135UD92	A191	ASLCS262630xxL	D54
APMS050C135UD82	A180	APMS150C105UD65	A249	APMZ050C130DC56	A204	APMZ050L135UD92	A204	ASLCS263715xxB	D54
APMS050C135UD82X2	A107	APMS150C105UD65	A249	APMZ050C130DC64	A82	APMZ050L135UD92	A214	ASLCS263715xxH	D54
APMS050C135UD82X4	A107	APMS150C105UD65	A271	APMZ050C130DC64	A82	APMZ050L135UD95	A191	ASLCS263720xxB	D54
APMS050C135UD84	A231	APMS150C105UD65	A271	APMZ050C130DC64	A169	APMZ050L135UD95	A204	ASLCS263730xxB	D54
APMS050C135UD90	A107	APMS150C105UD65	A311	APMZ050C130DC64	A169	APMZ050L135UD96	A191	ASLCS263730xxH	D54
APMS050C135UD95X2	A107	APMS150C105UD65	A311	APMZ050C130DC72	A81	APMZ050L135UD96	A204	ASLCS372215xxL	D54
APMS050C135UD95X4	A107	APMS150C105UD65	A345	APMZ050C130DC72	A81	APMZ100C090UD36	A60	ASLCS372220xxL	D54
APMS100C105HD36	A42	APMS150C105UD65	A345	APMZ050C130DC72	A168	APMZ100C090UD41	A249	ASLCS372230xxL	D54
APMS100C105HD36	A144	APMS150C105UD68	A249	APMZ050C130DC72	A168	APMZ100C090UD41	A271	ASLCS372615xxB	D54
APMS100C105HD41	A249	APMS150C105UD68	A249	APMZ050C130DC78	A82	APMZ100C090UD41	A311	ASLCS372615xxH	D54
APMS100C105HD41	A271	APMS150C105UD68	A271	APMZ050C130DC78	A82	APMZ100C090UD41	A328	ASLCS372615xxL	D54
APMS100C105HD41	A311	APMS150C105UD68	A271	APMZ050C130DC78	A169	APMZ100C090UD41	A345	ASLCS372620xxB	D54
APMS100C105HD41	A345	APMS150C105UD68	A311	APMZ050C130DC78	A169	APMZ100C090UD48	A60	ASLCS372620xxH	D54
APMS100C105HD48	A42	APMS150C105UD68	A311	APMZ050C130DC82	A82	APMZ100C090UD53	A249	ASLCS372620xxL	D54
APMS100C105HD48	A144	APMS150C105UD68	A345	APMZ050C130DC82	A82	APMZ100C090UD53	A271	ASLCS372630xxB	D54
APMS100C105HD52	A42	APMS150C105UD68	A345	APMZ050C130DC82	A95	APMZ100C090UD53	A311	ASLCS372630xxH	D54
APMS100C105HD52	A144	APMS150C105UD72	A42	APMZ050C130DC82	A95	APMZ100C090UD53	A328	ASLCS372630xxL	D54
APMS100C105HD53	A249	APMS150C105UD72	A144	APMZ050C130DC82	A169	APMZ100C090UD53	A345	ASLCS373715xxB	D54
APMS100C105HD53	A271	APMS150C105UD89	A249	APMZ050C130DC82	A169	APMZ100C090UD59	A60	ASLCS373715xxH	D54
APMS100C105HD53	A311	APMS150C105UD89	A249	APMZ050C130DC82	A180	APMZ150C135UD68	A249	ASLCS373715xxL	D55
APMS100C105HD53	A345	APMS150C105UD89	A271	APMZ050C130DC82	A180	APMZ150C135UD68	A249	ASLCS373720xxB	D54
APMS100C105HD59	A42	APMS150C105UD89	A271	APMZ050C130DC84	A191	APMZ150C135UD68	A271	ASLCS373720xxH	D54
APMS100C105HD59	A144	APMS150C105UD89	A311	APMZ050C130DC84	A204	APMZ150C135UD68	A271	ASLCS373720xxL	D55
APMS100C105HD65	A42	APMS150C105UD89	A311	APMZ050C130DC89	A191	APMZ150C135UD68	A311	ASLCS373730xxB	D54
APMS100C105HD65	A144	APMS150C105UD89	A345	APMZ050C130DC89	A204	APMZ150C135UD68	A311	ASLCS373730xxH	D54
APMS100C105UD36	A42	APMS150C105UD89	A345	APMZ050C130DC92	A191	APMZ150C135UD68	A328	ASLCS373730xxL	D55
APMS100C105UD36	A144	APMS150C105UD90	A42	APMZ050C130DC92	A204	APMZ150C135UD68	A328	ASLCS375615xxB	D55
APMS100C105UD41	A249	APMS150C105UD90	A144	APMZ050C130DC95	A191	APMZ150C135UD68	A345	ASLCS375615xxH	D55
APMS100C105UD41	A271	APMS150C105UD91	A249	APMZ050C130DC95	A204	APMZ150C135UD68	A345	ASLCS375615xxL	D55
APMS100C105UD41	A311	APMS150C105UD91	A271	APMZ050C130DC96	A191	APMZ150C135UD72	A60	ASLCS375620xxB	D55
APMS100C105UD41	A345	APMS150C105UD91	A311	APMZ050C130DC96	A204	APMZ150C135UD90	A60	ASLCS375620xxH	D55
APMS100C105UD48	A42	APMS150C105UD91	A345	APMZ050C135UD50	A60	APMZ150C135UD93	A249	ASLCS375620xxL	D55
APMS100C105UD48	A144	APMS150C105UD93	A249	APMZ050C135UD67	A214	APMZ150C135UD93	A249	ASLCS375630xxB	D55
APMS100C105UD52	A42	APMS150C105UD93	A271	APMZ050C135UD78	A60	APMZ150C135UD93	A271	ASLCS375630xxH	D55
APMS100C105UD52	A144	APMS150C105UD93	A311	APMZ050L135UD80	A214	APMZ150C135UD93	A271	ASLCS375630xxL	D55
APMS100C105UD53	A249	APMS150C105UD93	A345	APMZ050L135UD3	A191	APMZ150C135UD93	A311	ASLCS563715xxB	D55
APMS100C105UD53	A271	APMS240HD976	A289	APMZ050L135UD3	A204	APMZ150C135UD93	A311	ASLCS563715xxH	D55
APMS100C105UD53	A311	APMS240HD976	A289	APMZ050L135UD3A	A191	APMZ150C135UD93	A328	ASLCS563715xxL	D55
APMS100C105UD53	A345	APMS240HD1152	A289	APMZ050L135UD3A	A204	APMZ150C135UD93	A328	ASLCS563720xxB	D55
APMS100C105UD59	A42	APMS240HD1152	A289	APMZ050L135UD10	A82	APMZ150C135UD93	A345	ASLCS563720xxH	D55
APMS100C105UD59	A144	APMS240UD976	A289	APMZ050L135UD10	A169	APMZ150C135UD93	A345	ASLCS563720xxL	D55
APMS150C105HD65	A249	APMS240UD976	A289	APMZ050L135UD10	A191	APP-FS-1-75	A45	ASLCS563730xxB	D55

Alphanumeric Index

ASLCS563730xxH	D55	AZ-10146/8	D100	DA1W1E201	D97	DA5650	D107	DMC000D	D111
ASLCS563730xxL	D55	AZ-14146/8	D100	DA1W1L001	D94	DA5660	D107	DMC001D	D111
ASLCS565615xxB	D55	AZ-18186/8	D100	DA1W1T101	D93	DA5675	D107	DMC05D4P	D111
ASLCS565615xxH	D55	AZ-18248/10	D100	DA1W1T102	D93	DA13100	D107	DPB12P	D105
ASLCS565615xxL	D55	AZ-18368/10	D100	DA1W1T103	D93	DA13125	D107	DPB12R	D104
ASLCS565620xxB	D55	AZ-24248/10	D100	DA1W1T104	D93	DA13150	D107	DPB48P	D105
ASLCS565620xxH	D55	AZ-24368/10	D100	DA1W1T201	D93	DA13200	D107	DPB48R	D104
ASLCS565620xxL	D55	AZ-30388	D100	DA1W3E101	D97	DA13250	D107	DPB85P	D105
ASLCS565630xxB	D55	AZ-161812	D100	DA1W3E201	D97	DA15100	D107	DPB85R	D104
ASLCS565630xxH	D55	BAESLABEL200	A358	DA1W3L001	D94	DA15125	D107	DPBLENS	D106
ASLCS565630xxL	D55	BAESLABEL200	A190	DA1W3T101	D93	DA15150	D107	DPDS3A06216C0	E63
ASLCS567515xxB	D55	BAESLABEL200	A203	DA1W3T102	D93	DA15200	D107	DPDS3B12216C0	E63
ASLCS567515xxH	D55	BAESLABEL201	A358	DA1W3T103	D93	DA15250	D107	DPDS3E06916B1	E63
ASLCS567515xxL	D56	BAESLABEL201	A190	DA1W3T104	D93	DA16100	D107	DPDS3E06916C1	E63
ASLCS567520xxB	D55	BAESLABEL201	A203	DA1W3T201	D93	DA16125	D107	DPDS3F12916B1	E63
ASLCS567520xxH	D55	BHLCLEAR	A248	DA2W2E102	D97	DA16150	D107	DPDS3F12916C1	E63
ASLCS567520xxL	D56	BHLCLEAR	A270	DA2W2T201	D93	DA16200	D107	DPDS7C18216C0	E63
ASLCS567530xxB	D55	BHLFROST	A248	DA2W2T202	D93	DA16250	D107	DPDS7G18916B1	E63
ASLCS567530xxH	D55	BHLFROST	A270	DA4W2E202	D97	DA53100	D107	DPDS7G18916C1	E63
ASLCS567530xxL	D56	BLLCLEAR	A248	DA5GP	D105	DA53125	D107	DPDS9D24216C0	E63
ASLCS753715xxB	D56	BLLCLEAR	A270	DA5GR	D104	DA53150	D107	DPDS9H20916B1	E63
ASLCS753715xxH	D56	BLLDIFFP	A248	DA5W2E301	D97	DA53200	D107	DPDS9H20916C1	E63
ASLCS753715xxL	D56	BLLDIFFP	A270	DA5W2E302	D97	DA53250	D107	DPG12P	D105
ASLCS753720xxB	D56	BLLFROST	A248	DA5W2E401	D97	DA55100	D107	DPG12R	D104
ASLCS753720xxH	D56	BLLFROST	A270	DA5W2T301	D94	DA55125	D107	DPG48P	D105
ASLCS753720xxL	D56	BMMLED	A231	DA5W2T302	D94	DA55150	D107	DPG48R	D104
ASLCS753730xxB	D56	BMMILLED	A43	DA9RP	D105	DA55200	D107	DPG85P	D105
ASLCS753730xxH	D56	BMMILLED	A83	DA9RR	D104	DA55250	D107	DPG85R	D104
ASLCS753730xxL	D56	BMMILLED	A145	DA135	D107	DA56100	D107	DPGLENS	D106
ASLCS755615xxB	D56	BMMILLED	A170	DA155	D107	DA56125	D107	DPLD1S	D106
ASLCS755615xxH	D56	BMMILLED	A214	DA165	D107	DA56150	D107	DPLD2S	D106
ASLCS755615xxL	D56	BMMILLED	A190	DA535	D107	DA56200	D107	DPR12P	D105
ASLCS755620xxB	D56	BMMILLED	A203	DA555	D107	DA56250	D107	DPR12R	D104
ASLCS755620xxH	D56	BMQCPH	A248	DA565	D107	DBD20NB	F37	DPR48P	D105
ASLCS755620xxL	D56	BMQCPH	A270	DA1310	D107	DBD20S	F37	DPR48R	D104
ASLCS755630xxB	D56	BPLLED	A190	DA1315	D107	DBDB20NB	F37	DPR85P	D105
ASLCS755630xxH	D56	BPLLED	A203	DA1320	D107	DBDB20S	F37	DPR85R	D104
ASLCS755630xxL	D56	BPLLED	A214	DA1330	D107	DBE20B	D15	DPRENS	D106
ASSE108025/30/35xxx	C100	BPLLED	A231	DA1340	D107	DBE20B	D38	DPW12P	D105
ASSE121295/15xxx	C100	BPMLLED	A43	DA1350	D107	DBE20B	F37	DPW12R	D104
ASSE121295/15xxx	C101	BPMLLED	A83	DA1360	D107	DBE20P	D15	DPW48P	D105
ASSE121895/15xxx	C100	BPMLLED	A145	DA1375	D107	DBE20P	D24	DPW48R	D104
ASSE129730/35/40xxx	C100	BPMLLED	A170	DA1510	D107	DBE20P	D38	DPW85P	D105
ASSE159740/50xxx	C100	CA48W	D83	DA1515	D107	DBE20P	F37	DPW85R	D104
ASSE181295/15xxx	C100	CA48W	D87	DA1520	D107	DBE20S	D15	DPWLENS	D106
ASSE181295/15xxx	C101	CA72W	D84	DA1530	D107	DBE20S	D38	DPY12P	D105
ASSE181895/15xxx	C100	CA72W	D87	DA1540	D107	DBE20S	F37	DPY12R	D104
ASSE181895/15xxx	C101	CB1M	C26	DA1550	D107	DBPM22	D106	DPY48P	D105
ASSE182215/15xxx	C101	CBDB0	E4	DA1560	D107	DC9P	D105	DPY48R	D104
ASSE182295/15xxx	C100	CBDB6	E4	DA1575	D107	DC9R	D104	DPY85P	D105
ASSE182295/15xxx	C101	CBDB7	E4	DA1610	D107	DCB5P	D105	DPY85R	D104
ASSE221895/15xxx	C100	CBDC0	E4	DA1615	D107	DCB5R	D104	DPYLENS	D106
ASSE222215/20/30xxx	C100	CBDC6	E4	DA1620	D107	DCB9P	D105	DR9P	D105
ASSE222615/20/30xxx	C100	CBDC7	E4	DA1630	D107	DCB9R	D104	DR9R	D104
ASSE223715/20/30xxx	C100	CC6MM	C26	DA1640	D107	DD9P	D105	DS116P	D105
ASSE262215/20/30xxx	C100	CC16MM	C26	DA1650	D107	DD9R	D104	DS116R	D104
ASSE262615/20/30xxx	C100	CC50MM	C26	DA1660	D107	DG5P	D105	DS216P	D105
ASSE263715/20/30xxx	C100	CFEHC49S	A106	DA1675	D107	DG5R	D104	DS216R	D104
ASSE265615/20/30xxx	C100	CFEHC49Z	A106	DA5310	D107	DD91A	D106	DS316P	D105
ASSE267515/20/30xxx	C100	CHIDBS	A106	DA5315	D107	DH5P	D105	DS316R	D104
ASSE333715/23/30xxx	C100	CHIDBS6	A106	DA5320	D107	DH5R	D104	DS416P	D105
ASSE335615/23/30xxx	C100	CHIDBZ	A106	DA5330	D107	DLP00	D106	DS416R	D104
ASSE337915/23/30xxx	C100	CHIDCS	A106	DA5340	D107	DLP01	D106	DS21601P	D105
ASSE372215/20/30xxx	C100	CHIDCS6	A106	DA5350	D107	DM48A	D107	DS21601R	D104
ASSE372615/20/30xxx	C100	CHIDCZ	A106	DA5360	D107	DMA1348P	D107	DS21602P	D105
ASSE373315/23/30xxx	C100	CHIDWS	A106	DA5375	D107	DMA1348R	D107	DS21602R	D104
ASSE373715/20/30xxx	C100	CHIDWS6	A106	DA5510	D107	DMA1548P	D107	DS41601P	D105
ASSE375615/20/30xxx	C100	CHIDWZ	A106	DA5515	D107	DMA1548R	D107	DS41602P	D105
ASSE377515/20/30xxx	C100	CLEDBMM	A107	DA5520	D107	DMA1648P	D107	DSA	D106
ASSE562615/20/30xxx	C100	CLEDBP	A107	DA5530	D107	DMA1648R	D107	DSB	D106
ASSE563315/23/30xxx	C100	CLEDGC	A106	DA5540	D107	DMA5348P	D107	DSG	D106
ASSE563715/20/30xxx	C100	CLEDDCG	A106	DA5550	D107	DMA5348R	D107	DSN	D106
ASSE565615/20/30xxx	C100	CLEDFUSE	A107	DA5560	D107	DMA5548P	D107	DSNPH	D106
ASSE567515/20/30xxx	C100	CLEDGS	A106	DA5575	D107	DMA5548R	D107	DSPH	D106
ASSE752615/20/30xxx	C100	CLEDSC	A106	DA5610	D107	DMA5648P	D107	DSR	D106
ASSE753715/20/30xxx	C100	CLEDTMS	A106	DA5615	D107	DMA5648R	D107	DSS	D106
ASSE755615/20/30xxx	C100	CLEDTMS6	A106	DA5620	D107	DMB000D	D111	ECDAB262720#	C6
ASSE793315/23/30xxx	C100	CLEDTMZ	A106	DA5630	D107	DMB001D	D111	ECDAB343223#	C6
AZ-10104/6	D100	DA1W1E101	D97	DA5640	D107	DMB055D4P	D111	ECDAB372720#	C6

Alphanumeric Index

ECDAB453234#	C6	FDHC60Z	A223	GAMPFB	A344	IMLGL3CP3	A140	IMLGX1CGW	A140
ECDAB454434#	C6	FDHC60Z	A356	GPSWB6GAL	A309	IMLGL3CP3BUE	A141	IMLGX1CJ5	A140
ECDAB684441#	C6	FDELEDB	A223	GPSWB6GAL	A327	IMLGL3CP3BUH	A141	IMLGX1CP1	A140
ECDAB686441#	C6	FDELEINV	A223	GPSWB6GAL	A344	IMLGL3CP5	A140	IMLGX1CP3	A140
ECDAC141610#	C6	FDELEDRV	A223	GSF20	A308	IMLGL3CP5BUE	A141	IMLGX1CP5	A140
ECDAC212312#	C6	FDPG2Z	A223	GSF20	A343	IMLGL3CP5BUH	A141	IMLGX1CPW	A140
ECDAC232124#	C6	FDPG5Z	A223	IB0	D102	IMLGL3CPW	A140	IMLGX5CD1	A140
ECDAC292619#	C6	FDPG5Z	A356	IB1	D102	IMLGL3CPWBUE	A141	IMLGX5CD3	A140
ECDAC323423#	C6	FDSBS	A223	IGO	D102	IMLGL3CPWBUE	A141	IMLGX5CD5	A140
ECDAC363320#	C6	FDSBS	A356	IG1	D102	IMLGL5CD1	A140	IMLGX5CDW	A140
ECDAC444534#	C6	FDSBZ	A223	IHCBRKTL	A289	IMLGL5CD1BUE	A141	IMLGX5CG1	A140
ECDXB105529#	C11	FDSBZ	A356	IHCABLE	A289	IMLGL5CD1BUH	A141	IMLGX5CG3	A140
ECDXB105529S#	C11	FDSCS	A223	IMLGH1CD1	A140	IMLGL5CD3	A140	IMLGX5CG5	A140
ECDXB106329#	C11	FDSCS	A356	IMLGH1CD3	A140	IMLGL5CD3BUE	A141	IMLGX5CGW	A140
ECDXB106329S#	C11	FEFBZ	A190	IMLGH1CD5	A140	IMLGL5CD3BUH	A141	IMLGX5CJ5	A140
ECDXB107029#	C11	FEFBZ	A203	IMLGH1CDW	A140	IMLGL5CD5	A140	IMLGX5CP1	A140
ECDXB107029S#	C11	FEFBZ	A214	IMLGH1CG1	A140	IMLGL5CD5BUE	A141	IMLGX5CP3	A140
ECDXB125529#	C11	FEFBZ	A231	IMLGH1CG3	A140	IMLGL5CD5BUH	A141	IMLGX5CP5	A140
ECDXB125529S#	C11	FEHBA	A190	IMLGH1CG5	A140	IMLGL5CDW	A140	IMLGX5CPW	A140
ECDXB126329#	C11	FEHBA	A203	IMLGH1CGW	A140	IMLGL5CDWBUE	A141	IR0	D102
ECDXB126329S#	C11	FEHBA	A214	IMLGH1CJ5	A140	IMLGL5CDWBUH	A141	IR1	D102
ECDXB127029#	C11	FEHBA	A231	IMLGH1CP1	A140	IMLGL5CG1	A140	IW0	D102
ECDXB127029S#	C11	FEHBS	A190	IMLGH1CP3	A140	IMLGL5CG1BUE	A141	IW1	D102
ECDXB145529#	C11	FEHBS	A203	IMLGH1CP5	A140	IMLGL5CG1BUH	A141	IY0	D102
ECDXB145529S#	C11	FEHBS	A214	IMLGH1CPW	A140	IMLGL5CG3	A140	IY1	D102
ECDXB146329#	C11	FEHBS	A231	IMLGH3CD1	A140	IMLGL5CG3BUE	A141	JBDAB262720#	C6
ECDXB146329S#	C11	FEHC49S	A190	IMLGH3CD3	A140	IMLGL5CG3BUH	A141	JBDAB343223#	C6
ECDXB302718#	C11	FEHC49S	A203	IMLGH3CD5	A140	IMLGL5CG5	A140	JBDAB372720#	C6
ECDXB302718S#	C11	FEHC49S	A214	IMLGH3CDW	A140	IMLGL5CG5BUE	A141	JBDAB453234#	C6
ECDXB412628#	C11	FEHC49S	A231	IMLGH3CG1	A140	IMLGL5CG5BUH	A141	JBDAB454434#	C6
ECDXB412628S#	C11	FEHC49Z	A190	IMLGH3CG3	A140	IMLGL5CGW	A140	JBDAB684441#	C6
ECDXB413828#	C11	FEHC49Z	A203	IMLGH3CG5	A140	IMLGL5CGWBUE	A141	JBDAB686441#	C6
ECDXB413828S#	C11	FEHC49Z	A214	IMLGH3CGW	A140	IMLGL5CGWBUH	A141	JBDAC141610#	C6
ECDXB633734#	C11	FEHC49Z	A231	IMLGH3CJ5	A140	IMLGL5CJ5	A140	JBDAC212312#	C6
ECDXB633734S#	C11	FEHC60S	A190	IMLGH3CP1	A140	IMLGL5CP1	A140	JBDAC232124#	C6
ECDXB635734#	C11	FEHC60S	A203	IMLGH3CP3	A140	IMLGL5CP1BUE	A141	JBDAC292619#	C6
ECDXB635734S#	C11	FEHC60S	A214	IMLGH3CP5	A140	IMLGL5CP1BUH	A141	JBDAC323423#	C6
ECDXB705029#	C11	FEHC60S	A231	IMLGH3CPW	A140	IMLGL5CP3	A140	JBDAC363320#	C6
ECDXB705029S#	C11	FEHC60Z	A190	IMLGH6CD1	A140	IMLGL5CP3BUE	A141	JBDAC444534#	C6
ECDXB706029#	C11	FEHC60Z	A203	IMLGH6CD3	A140	IMLGL5CP3BUH	A141	JBDR20	C3
ECDXB706029S#	C11	FEHC60Z	A214	IMLGH6CD5	A140	IMLGL5CP5	A140	JBDR23	C3
ECDXB707029#	C11	FEHC60Z	A231	IMLGH6CDW	A140	IMLGL5CP5BUE	A141	JBDR25	C3
ECDXB707029S#	C11	FERBM8Z	A190	IMLGH6CG1	A140	IMLGL5CP5BUH	A141	JBDR30	C3
ECDXB805029#	C11	FERBM8Z	A203	IMLGH6CG3	A140	IMLGL5CPW	A140	JBDR33	C3
ECDXB805029S#	C11	FERBM8Z	A214	IMLGH6CG5	A140	IMLGL5CPWBUE	A141	JBDR35	C3
ECDXB806029#	C11	FERBM8Z	A231	IMLGH6CGW	A140	IMLGL5CPWBUH	A141	JBDR40	C3
ECDXB806029S#	C11	FESBS	A190	IMLGH6CJ5	A140	IMLGL7CD1	A140	JBDR43	C3
ECDXB807029#	C11	FESBS	A203	IMLGH6CP1	A140	IMLGL7CD3	A140	JBDR45	C3
ECDXB807029S#	C11	FESBS	A214	IMLGH6CP3	A140	IMLGL7CD5	A140	JBEA121109	C68
ECDXB905029#	C11	FESBS	A231	IMLGH6CP5	A140	IMLGL7CDW	A140	JBEA121109D1	C73
ECDXB905029S#	C11	FESCM20	A190	IMLGH6CPW	A140	IMLGL7CG1	A140	JBEA171109	C68
ECDXB906029#	C11	FESCM20	A203	IMLGL3CD1	A140	IMLGL7CG3	A140	JBEA171109D2	C73
ECDXB906029S#	C11	FESCM20	A214	IMLGL3CD1BUE	A141	IMLGL7CG5	A140	JBEA121013	C68
ECEA121109#	C68	FESCM20	A231	IMLGL3CD1BUH	A141	IMLGL7CGW	A140	JBEA121013A01	C75
ECEA171109#	C68	FESCM25	A190	IMLGL3CD3	A140	IMLGL7CJ5	A140	JBEA121013A02	C75
ECEA212013#	C68	FESCM25	A203	IMLGL3CD3BUE	A141	IMLGL7CP1	A140	JBEA121013A07	C75
ECEA231109#	C68	FESCM25	A214	IMLGL3CD3BUH	A141	IMLGL7CP3	A140	JBEA121013A08	C75
ECEA322013#	C68	FESCM25	A231	IMLGL3CD5	A140	IMLGL7CP5	A140	JBEA121013A21	C75
ECEA4483819#	C68	FHLM-75	A248	IMLGL3CD5BUE	A141	IMLGL7CPW	A140	JBEA121013A22	C75
FASDA	D118	FHLM-75	A270	IMLGL3CD5BUH	A141	IMLGL9CD1/IMLGH9CD1	A140	JBEA121013A27	C75
FASEA	D118	FHLM-75	A289	IMLGL3CDW	A140	IMLGL9CD3/IMLGH9CD3	A140	JBEA121013A28	C75
FASEM	D118	FSKA-PC120D2	A45	IMLGL3CDWBUE	A141	IMLGL9CD5/IMLGH9CD5	A140	JBEA121013A41	C75
FDBAESLED*A	A357	FSKA-PC120D2	A84	IMLGL3CDWBUH	A141	IMLGL9CDW/IMLGH9CDW	A140	JBEA121013A42	C75
FDBAESLED*A	A357	FSKA-PC120D2	A310	IMLGL3CG1	A140	IMLGL9CG1/IMLGH9CG1	A140	JBEA121013A47	C75
FDBAESLED*A	A357	FSKA-PC247D2	A45	IMLGL3CG1BUE	A141	IMLGL9CG3/IMLGH9CG3	A140	JBEA121013A48	C75
FDBAESLED*W	A357	FSKA-PC247D2	A84	IMLGL3CG1BUH	A141	IMLGL9CG5/IMLGH9CG5	A140	JBEA121013D5	C73
FDBAESLED*W	A357	FSKA-PC247D2	A310	IMLGL3CG3	A140	IMLGL9CGW/IMLGH9CGW	A140	JBEA121013L01	C76
FDBAESLED*W	A357	FU40	D89	IMLGL3CG3BUE	A141	IMLGL9CJ5/IMLGH9CJ5	A140	JBEA121013L02	C76
FDER5G	A356	GAM8CA	A308	IMLGL3CG3BUH	A141	IMLGL9CP1/IMLGH9CP1	A140	JBEA121013L07	C76
FDLBS	A223	GAM8CA	A326	IMLGL3CG5	A140	IMLGL9CP3/IMLGH9CP3	A140	JBEA121013L08	C76
FDLBS	A356	GAM8CA	A343	IMLGL3CG5BUE	A141	IMLGL9CP5/IMLGH9CP5	A140	JBEA121013L21	C76
FDLFBZ	A223	GAM8SF	A308	IMLGL3CG5BUH	A141	IMLGL9CPW/IMLGH9CPW	A140	JBEA121013L22	C76
FDLFBZ	A356	GAM8SF	A326	IMLGL3CGW	A140	IMLGLX1CD1	A140	JBEA121013L27	C76
FDHC49S	A223	GAM8SF	A343	IMLGL3CGWBUE	A141	IMLGLX1CD3	A140	JBEA121013L28	C76
FDHC49S	A356	GAM8WB	A308	IMLGL3CGWBUH	A141	IMLGLX1CD5	A140	JBEA121013L41	C76
FDHC49Z	A223	GAM8WB	A326	IMLGL3CJ5	A140	IMLGLX1CDW	A140	JBEA121013L42	C76
FDHC49Z	A356	GAM8WB	A343	IMLGL3CP1	A140	IMLGLX1CG1	A140	JBEA121013L47	C76
FDHC60S	A223	GAMPFB	A309	IMLGL3CP1BUE	A141	IMLGLX1CG3	A140	JBEA121013L48	C76
FDHC60S	A356	GAMPFB	A327	IMLGL3CP1BUH	A141	IMLGLX1CG5	A140	JBEA121013P01	C74

Alphanumeric Index

JBEA212013P02	C74	JBEP02B	C27	JBEP171709LI01	C35	JBEP202115NI41	C33	JBEP253215NI31	C33
JBEA212013P07	C74	JBEP02S	C27	JBEP171709LI07	C35	JBEP202115NI42	C33	JBEP253215NI43	C33
JBEA212013P08	C74	JBEP05B	C27	JBEP171709NE01	C43	JBEP202115NI47	C33	JBEP253215NI44	C33
JBEA212013P21	C74	JBEP05S	C27	JBEP171709NE02	C43	JBEP202115NI48	C33	JBEP253215NI45	C33
JBEA212013P22	C74	JBEP06B	C27	JBEP171709NE03	C43	JBEP202115NP01	C49	JBEP253215NI49	C33
JBEA212013P27	C74	JBEP06S	C27	JBEP171709NE04	C43	JBEP202115NP02	C49	JBEP253215NI50	C33
JBEA212013P28	C74	JBEP07B	C27	JBEP171709NE04T	C40	JBEP202115NP03	C49	JBEP253215NI51	C33
JBEA212013P41	C74	JBEP07S	C27	JBEP171709NE05	C43	JBEP202115NP04	C49	JBEP253215NP01	C52
JBEA212013P42	C74	JBEP08B	C27	JBEP171709NE06	C43	JBEP202115NP05	C49	JBEP253215NP02	C52
JBEA212013P47	C74	JBEP08S	C27	JBEP171709NE06T	C40	JBEP202115NP06	C49	JBEP253215NP03	C53
JBEA212013P48	C74	JBEP09B	C27	JBEP171709NE07	C43	JBEP202115NP07	C50	JBEP253215NP04	C53
JBEA231109	C68	JBEP09S	C27	JBEP171709NE08	C44	JBEP202115NP08	C50	JBEP253215NP17	C51
JBEA231109D3	C73	JBEP10B	C27	JBEP171709NE09	C44	JBEP202115NP09	C50	JBEP253215NP18	C51
JBEA322013	C68	JBEP10S	C27	JBEP171709NE10	C44	JBEP202115NP10	C50	JBEP325015AI26	C34
JBEA322013A03	C75	JBEP11B	C27	JBEP171709NE11	C44	JBEP202115NP11	C50	JBEP325015AI32	C34
JBEA322013A04	C75	JBEP11S	C27	JBEP171709NE14T	C40	JBEP202115NP12	C50	JBEP325015AI46	C34
JBEA322013A05	C75	JBEP12B	C27	JBEP171709NE16T	C40	JBEP202115NP13	C51	JBEP325015AI52	C34
JBEA322013A09	C75	JBEP12S	C27	JBEP171709NE46	C42	JBEP202115NP14	C51	JBEP325015LI26	C35
JBEA322013A10	C75	JBEP13B	C27	JBEP171709NE47	C42	JBEP202115NP15	C51	JBEP325015LI32	C35
JBEA322013A11	C75	JBEP13S	C27	JBEP171709NE48	C42	JBEP202115NP16	C51	JBEP325015LI46	C35
JBEA322013A23	C75	JBEP14B	C27	JBEP171709NE51	C45	JBEP253215AI03	C34	JBEP325015LI52	C35
JBEA322013A24	C75	JBEP14S	C27	JBEP171709NE52	C45	JBEP253215AI04	C34	JBEP325015NI26	C33
JBEA322013A29	C75	JBEP15B	C27	JBEP171709NE53	C45	JBEP253215AI05	C34	JBEP325015NI32	C33
JBEA322013A30	C75	JBEP15S	C27	JBEP171709NE54	C46	JBEP253215AI06	C34	JBEP325015NI46	C33
JBEA322013A43	C75	JBEP16B	C27	JBEP171709NE55	C46	JBEP253215AI09	C34	JBEP325015NI52	C33
JBEA322013A44	C75	JBEP16S	C27	JBEP171709NE56	C46	JBEP253215AI10	C34	JBEP503215AP01	C54
JBEA322013A49	C75	JBEP17B	C27	JBEP171709NE57	C46	JBEP253215AI11	C34	JBEP503215AP02	C54
JBEA322013A50	C75	JBEP17S	C27	JBEP171709NE58	C47	JBEP253215AI12	C34	JBEP503215AP03	C55
JBEA322013D6	C73	JBEP0407	C26	JBEP171709NE59	C47	JBEP253215AI23	C34	JBEP503215AP04	C55
JBEA322013L03	C76	JBEP1008	C26	JBEP171709NE60	C47	JBEP253215AI24	C34	JBEP503215AP21	C56
JBEA322013L04	C76	JBEP1515	C26	JBEP171709NE61	C47	JBEP253215AI25	C34	JBEP503215AP22	C56
JBEA322013L05	C76	JBEP1518	C26	JBEP171709NI01	C33	JBEP253215AI29	C34	JBEP503215AP23	C57
JBEA322013L09	C76	JBEP2623	C26	JBEP171709NI07	C33	JBEP253215AI30	C34	JBEP503215AP24	C57
JBEA322013L10	C76	JBEP4826	C26	JBEP202110AE12	C44	JBEP253215AI31	C34	JBEP503215NP01	C54
JBEA322013L11	C76	JBEP7326	C26	JBEP202110AE62	C48	JBEP253215AI43	C34	JBEP503215NP02	C54
JBEA322013L23	C76	JBEP080806AE03T	C39	JBEP202110NE12	C44	JBEP253215AI44	C34	JBEP503215NP03	C55
JBEA322013L24	C76	JBEP080806AE04T	C39	JBEP202110NE62	C48	JBEP253215AI45	C34	JBEP503215NP21	C56
JBEA322013L29	C76	JBEP080806NE03T	C39	JBEP202115AI02	C34	JBEP253215AI49	C34	JBEP503215NP22	C56
JBEA322013L30	C76	JBEP080806NE04T	C39	JBEP202115AI08	C34	JBEP253215AI50	C34	JBEP503215NP23	C57
JBEA322013L43	C76	JBEP121209AE03T	C39	JBEP202115AI21	C34	JBEP253215AI51	C34	JBEP503223NP04	C55
JBEA322013L44	C76	JBEP121209AE04T	C39	JBEP202115AI22	C34	JBEP253215AP01	C52	JBEP503223NP24	C57
JBEA322013L49	C76	JBEP121209AE45	C41	JBEP202115AI27	C34	JBEP253215AP02	C52	JBEP753215NP01	C58
JBEA322013L50	C76	JBEP121209AE47	C41	JBEP202115AI28	C34	JBEP253215AP03	C53	JBEP753215NP03	C58
JBEA322013P03	C74	JBEP121209NE13T	C39	JBEP202115AI41	C34	JBEP253215AP04	C53	JBEP753223AP01	C58
JBEA322013P04	C74	JBEP121209NE14T	C39	JBEP202115AI42	C34	JBEP253215AP17	C51	JBEP753223AP02	C58
JBEA322013P05	C74	JBEP121209NE46	C41	JBEP202115AI47	C34	JBEP253215AP18	C51	JBEP753223AP03	C58
JBEA322013P09	C74	JBEP121209NE48	C41	JBEP202115AI48	C34	JBEP253215LI03	C35	JBEP753223NP02	C58
JBEA322013P10	C74	JBEP121209S0	C22	JBEP202115AP01	C49	JBEP253215LI04	C35	JBEP0808060	C22
JBEA322013P11	C74	JBEP171709AE01	C43	JBEP202115AP02	C49	JBEP253215LI05	C35	JBEP1717090	C22
JBEA322013P23	C74	JBEP171709AE02	C43	JBEP202115AP03	C49	JBEP253215LI06	C35	JBEP2021100	C22
JBEA322013P24	C74	JBEP171709AE03	C43	JBEP202115AP04	C49	JBEP253215LI09	C35	JBEP2021150	C22
JBEA322013P29	C74	JBEP171709AE04	C43	JBEP202115AP05	C49	JBEP253215LI10	C35	JBEP2532150	C22
JBEA322013P30	C74	JBEP171709AE04T	C40	JBEP202115AP06	C49	JBEP253215LI11	C35	JBEP3225150	C22
JBEA322013P43	C74	JBEP171709AE05	C43	JBEP202115AP07	C50	JBEP253215LI12	C35	JBEP3250150	C22
JBEA322013P44	C74	JBEP171709AE06	C43	JBEP202115AP08	C50	JBEP253215LI23	C35	JBEP3250230	C22
JBEA322013P49	C74	JBEP171709AE06T	C40	JBEP202115AP09	C50	JBEP253215LI24	C35	JBEP3275150	C22
JBEA322013P50	C74	JBEP171709AE07	C43	JBEP202115AP10	C50	JBEP253215LI25	C35	JBEP3275230	C22
JBEA483819	C68	JBEP171709AE08	C44	JBEP202115AP11	C50	JBEP253215LI29	C35	JBEP5032150	C22
JBEA483819A26	C75	JBEP171709AE09	C44	JBEP202115AP12	C50	JBEP253215LI30	C35	JBEP5032230	C22
JBEA483819A32	C75	JBEP171709AE10	C44	JBEP202115AP13	C51	JBEP253215LI31	C35	JBEP7532150	C22
JBEA483819A46	C75	JBEP171709AE11	C44	JBEP202115AP14	C51	JBEP253215LI43	C35	JBEP7532230	C22
JBEA483819A52	C75	JBEP171709AE14T	C40	JBEP202115AP15	C51	JBEP253215LI44	C35	JBEP080806003	C23
JBEA483819D8	C73	JBEP171709AE16T	C40	JBEP202115AP16	C51	JBEP253215LI45	C35	JBEP080806004	C23
JBEA483819L26	C76	JBEP171709AE46	C42	JBEP202115LI02	C35	JBEP253215LI49	C35	JBEP121209003	C23
JBEA483819L32	C76	JBEP171709AE47	C42	JBEP202115LI08	C35	JBEP253215LI50	C35	JBEP121209004	C23
JBEA483819L46	C76	JBEP171709AE48	C42	JBEP202115LI21	C35	JBEP253215LI51	C35	JBEP171709004	C23
JBEA483819L52	C76	JBEP171709AE51	C45	JBEP202115LI22	C35	JBEP253215NI03	C33	JBEP171709006	C23
JBEA483819P26	C74	JBEP171709AE52	C45	JBEP202115LI27	C35	JBEP253215NI04	C33	JBEP171709014	C23
JBEA483819P32	C74	JBEP171709AE53	C45	JBEP202115LI28	C35	JBEP253215NI05	C33	JBEP171709016	C23
JBEA483819P46	C74	JBEP171709AE54	C46	JBEP202115LI41	C35	JBEP253215NI06	C33	JBEP253215NI06	C33
JBEA483819P52	C74	JBEP171709AE55	C46	JBEP202115LI42	C35	JBEP253215NI09	C33	JBEP253215NI09	C33
JBEL1A4M20	C80	JBEP171709AE56	C46	JBEP202115LI47	C35	JBEP253215NI10	C33	JBEP253215NI10	C33
JBEL1N4M20G	C80	JBEP171709AE57	C46	JBEP202115LI48	C35	JBEP253215NI11	C33	JBEP253215NI11	C33
JBEL2A4M20	C80	JBEP171709AE58	C47	JBEP202115NI02	C33	JBEP253215NI12	C33	JBEP253215NI12	C33
JBEL2A4M25	C80	JBEP171709AE59	C47	JBEP202115NI08	C33	JBEP253215NI23	C33	JBEP253215NI23	C33
JBEL2N3M20G	C80	JBEP171709AE60	C47	JBEP202115NI21	C33	JBEP253215NI24	C33	JBEP253215NI24	C33
JBEL2N3M25G	C80	JBEP171709AE61	C47	JBEP202115NI22	C33	JBEP253215NI25	C33	JBEP253215NI25	C33
JBEL2N4M20G	C80	JBEP171709AI01	C34	JBEP202115NI27	C33	JBEP253215NI29	C33	JBEP253215NI29	C33
JBEL2N4M25G	C80	JBEP171709AI07	C34	JBEP202115NI28	C33	JBEP253215NI30	C33	JBEP253215NI30	C33

Alphanumeric Index

JBES1175300	C84	JBES7537201	C85	KPA-100-WT	A11	KPCT-100	A79	KPWB-75	A166
JBES1175301	C85	JBES7537202	C85	KPA-100-WT	A40	KPCT-100	A118	KPWB75PC12	A146
JBES1175302	C85	JBES7537203	C85	KPA-100-WT	A79	KPCT-100	A142	KPWB75PC12	A170
JBES1175303	C85	JBES7537204	C85	KPA-100-WT	A118	KPCT-100	A166	KPWB75PC12D2	A45
JBES1175304	C85	JBES7556200	C84	KPA-100-WT	A142	KPCT100PC12D2	A84	KPWB75PC12D2	A84
JBES1212090	C84	JBES7556201	C85	KPA-100-WT	A166	KPCT100PC24D2	A84	KPWB75PC24	A146
JBES1212090D1	C96	JBES7556202	C85	KPA100WTPC12	A170	KPCT-M20	A11	KPWB75PC24	A170
JBES1218090	C84	JBES7556203	C85	KPA100WTPC12D2	A84	KPCT-M20	A40	KPWB75PC24D2	A45
JBES1218090D2	C96	JBES7556204	C85	KPA100WTPC24	A170	KPCT-M20	A59	KPWB75PC24D2	A84
JBES1218090D3	C96	JBESCF262A	C88	KPA100WTPC24D2	A84	KPCT-M20	A79	KPWB-100	A11
JBES1812090F1	C96	JBESCF372A	C88	KPA-M20	A11	KPCT-M20	A118	KPWB-100	A40
JBES1818090	C84	JBESCF372B	C88	KPA-M20	A40	KPCT-M20	A142	KPWB-100	A59
JBES2226150	C84	JBESCF373A	C88	KPA-M20	A59	KPCT-M20	A166	KPWB-100	A79
JBES2226150F5	C96	JBESCF373B	C88	KPA-M20	A79	KPS-125	A11	KPWB-100	A118
JBES2226150F6	C96	JBESCF562A	C88	KPA-M20	A118	KPS-125	A40	KPWB-100	A142
JBES2226151	C85	JBESCF562B	C88	KPA-M20	A142	KPS-125	A59	KPWB-100	A166
JBES2226152	C85	JBESCF563A	C88	KPA-M20	A166	KPS-125	A79	KPWB100PC12	A146
JBES2226153	C85	JBESCF563B	C88	KPA-WT-M20	A11	KPS-125	A118	KPWB100PC12	A170
JBES2226154	C85	JBESCF752A	C88	KPA-WT-M20	A40	KPS-125	A142	KPWB100PC12D2	A45
JBES2237200	C84	JBESCF752B	C88	KPA-WT-M20	A79	KPS-125	A166	KPWB100PC12D2	A84
JBES2237200F7	C96	JBESCF753A	C88	KPA-WT-M20	A118	KPS125PC12	A146	KPWB100PC24	A146
JBES2237200F8	C96	JBESCF753B	C88	KPA-WT-M20	A142	KPS125PC12	A170	KPWB100PC24	A170
JBES2237201	C85	JBESGP221B	C88	KPA-WT-M20	A166	KPS125PC12D2	A45	KPWB100PC24D2	A45
JBES2237202	C85	JBESGP261A	C88	KPC-75	A11	KPS125PC12D2	A84	KPWB100PC24D2	A84
JBES2237203	C85	JBESGP262A	C88	KPC-75	A40	KPS125PC24	A146	KPWB-M20	A11
JBES2237204	C85	JBESGP262B	C88	KPC-75	A59	KPS125PC24	A170	KPWB-M20	A40
JBES2622150	C84	JBESGP263A	C88	KPC-75	A79	KPS125PC24D2	A45	KPWB-M20	A59
JBES2622150F2	C96	JBESGP372A	C88	KPC-75	A118	KPS125PC24D2	A84	KPWB-M20	A79
JBES2622151	C85	JBESGP372B	C88	KPC-75	A142	KPS-150	A11	KPWB-M20	A118
JBES2622152	C85	JBESGP373A	C88	KPC-75	A166	KPS-150	A40	KPWB-M20	A142
JBES2622153	C85	JBESGP373B	C88	KPC-100	A11	KPS-150	A59	KPWB-M20	A166
JBES2622154	C85	JBESGP562A	C88	KPC-100	A40	KPS-150	A79	KRG2S	A42
JBES2637200	C84	JBESGP562B	C88	KPC-100	A59	KPS-150	A118	KRG2S	A81
JBES2637201	C85	JBESGP563A	C88	KPC-100	A79	KPS-150	A142	KRG2S	A144
JBES2637202	C85	JBESGP563B	C88	KPC-100	A118	KPS-150	A166	KRG2S	A168
JBES2637203	C85	JBESGP752A	C88	KPC-100	A142	KPS150PC12	A146	LED5C	A248
JBES2637204	C85	JBESGP752B	C88	KPC-100	A166	KPS150PC12	A170	LED5C	A270
JBES3722200	C84	JBESGP753A	C88	KPCH-75	A11	KPS150PC12D2	A45	LEDDR3	A12
JBES3722201	C85	JBESGP753B	C88	KPCH-75	A40	KPS150PC12D2	A84	LEDDR3	A41
JBES3722202	C85	KPA-75	A11	KPCH-75	A59	KPS150PC24	A146	LEDDR3	A60
JBES3722203	C85	KPA-75	A40	KPCH-75	A79	KPS150PC24	A170	LEDDR3	A119
JBES3722204	C85	KPA-75	A59	KPCH-75	A118	KPS150PC24D2	A45	LEDDR3	A143
JBES3726200	C84	KPA-75	A79	KPCH-75	A142	KPS150PC24D2	A84	LEDDR9	A248
JBES3726200F4	C96	KPA-75	A118	KPCH-75	A166	KPST-125	A11	LEDDR9	A270
JBES3726201	C85	KPA-75	A142	KPCH-100	A11	KPST-125	A40	LEDSC	A12
JBES3726202	C85	KPA-75	A166	KPCH-100	A40	KPST-125	A59	LEDSC	A41
JBES3726203	C85	KPA75PC12	A146	KPCH-100	A59	KPST-125	A79	LEDSC	A60
JBES3726204	C85	KPA75PC12	A170	KPCH-100	A79	KPST-125	A118	LEDSC	A80
JBES3737200	C84	KPA75PC12D2	A45	KPCH-100	A118	KPST-125	A142	LEDSC	A95
JBES3737201	C85	KPA75PC12D2	A84	KPCH-100	A142	KPST-125	A166	LEDSC	A119
JBES3737202	C85	KPA75PC24	A146	KPCH-100	A166	KPST125PC12	A146	LEDSC	A143
JBES3737203	C85	KPA75PC24	A170	KPCH-M20	A11	KPST125PC12	A170	LEDSC	A167
JBES3737204	C85	KPA75PC24D2	A45	KPCH-M20	A40	KPST125PC12D2	A45	LEDSC	A180
JBES3756200	C84	KPA75PC24D2	A84	KPCH-M20	A59	KPST125PC12D2	A84	LEDSC	A190
JBES3756201	C85	KPA-75-WT	A11	KPCH-M20	A79	KPST125PC24	A146	LEDSC	A203
JBES3756202	C85	KPA-75-WT	A40	KPCH-M20	A118	KPST125PC24	A170	LEDSC	A248
JBES3756203	C85	KPA-75-WT	A79	KPCH-M20	A142	KPST125PC24D2	A45	LEDSC	A270
JBES3756204	C85	KPA-75-WT	A118	KPCH-M20	A166	KPST125PC24D2	A84	LEDSC	A289
JBES3775200	C84	KPA-75-WT	A142	KPC-M20	A11	KPST-150	A11	LEDSC	A309
JBES3775201	C85	KPA-75-WT	A166	KPC-M20	A40	KPST-150	A40	LEDSC	A327
JBES3775202	C85	KPA75WTPC12	A170	KPC-M20	A59	KPST-150	A59	LEDSC	A344
JBES3775203	C85	KPA75WTPC12D2	A84	KPC-M20	A79	KPST-150	A79	LEDSC8	A248
JBES3775204	C85	KPA75WTPC24	A170	KPC-M20	A118	KPST-150	A118	LEDSC8	A270
JBES5637200	C84	KPA75WTPC24D2	A84	KPC-M20	A142	KPST-150	A142	LEDSC8	A289
JBES5637201	C85	KPA-100	A11	KPC-M20	A166	KPST-150	A166	LEDSC8	A309
JBES5637202	C85	KPA-100	A40	KPC-M20-MLT	A95	KPST150PC12	A146	LEDSC8	A344
JBES5637203	C85	KPA-100	A59	KPC-M20-MLT	A180	KPST150PC12	A170	LGGUARD	A248
JBES5637204	C85	KPA-100	A79	KPCT-75	A11	KPST150PC12D2	A45	LGGUARD	A270
JBES5656200	C84	KPA-100	A118	KPCT-75	A40	KPST150PC12D2	A84	LGGUARD	A309
JBES5656201	C85	KPA-100	A142	KPCT-75	A59	KPST150PC24	A146	LGGUARD	A327
JBES5656202	C85	KPA-100	A166	KPCT-75	A79	KPST150PC24	A170	LGGUARD	A344
JBES5656203	C85	KPA100PC12	A146	KPCT-75	A118	KPST150PC24D2	A45	LHGUARD	A248
JBES5656204	C85	KPA100PC12	A170	KPCT-75	A142	KPST150PC24D2	A84	LHGUARD	A270
JBES5675200	C84	KPA100PC12D2	A45	KPCT-75	A166	KPWB-75	A11	LHGUARD	A309
JBES5675201	C85	KPA100PC12D2	A84	KPCT75PC12D2	A84	KPWB-75	A40	LHGUARD	A327
JBES5675202	C85	KPA100PC24	A146	KPCT75PC24D2	A84	KPWB-75	A59	LHGUARD	A344
JBES5675203	C85	KPA100PC24	A170	KPCT-100	A11	KPWB-75	A79	LINCCVR2	A190
JBES5675204	C85	KPA100PC24D2	A45	KPCT-100	A40	KPWB-75	A118	LINCCVR2	A203
JBES7537200	C84	KPA100PC24D2	A84	KPCT-100	A59	KPWB-75	A142	LINCCVR4	A190

Alphanumeric Index

LINCCVR4	A203	MLGH6CJ5	A38	MLGL7CD1	A38	MMADKVA	A119	PPAL062216C80N	E17
LINDCVR2	A190	MLGH6CP1	A38	MLGL7CD3	A38	MMADKVA	A143	PPAL062416C1	E17
LINDCVR2	A203	MLGH6CP3	A38	MLGL7CD5	A38	MMADKVA	A166	PPAL062416C1G030	E17
LINDCVR4	A190	MLGH6CP5	A38	MLGL7CDW	A38	MMVISOR	A41	PPAL062416C4	E17
LINDCVR4	A203	MLGH6CPW	A38	MLGL7CG1	A38	MMVISOR	A60	PPAL062416C4G030	E17
LNMB800	A190	MLGL3CD1	A38	MLGL7CG3	A38	MMVISOR	A80	PPAL062416C5	E17
LNMB800	A203	MLGL3CD1BUE	A39	MLGL7CG5	A38	MMVISOR	A143	PPAL062416C5G030	E17
LPG-R5S	A42	MLGL3CD1BUH	A39	MLGL7CGW	A38	MMVISOR	A167	PPAL062416C20N	E17
LPG-R5S	A81	MLGL3CD3	A38	MLGL7CJ5	A38	MR	D102	PPAL062416C30N	E17
LPG-R5S	A144	MLGL3CD3BUE	A39	MLGL7CP1	A38	MREP2F	B12	PPAL062416C40N	E17
LPG-R5S	A168	MLGL3CD3BUH	A39	MLGL7CP3	A38	MREP4F	B13	PPAL062416C50N	E17
LSF33	F7	MLGL3CD5	A38	MLGL7CP5	A38	MREP4G	B13	PPAL062416C60N	E17
LSF33	F9	MLGL3CD5BUE	A39	MLGL7CPW	A38	MREP1316PT3K	B14	PPAL062416C70N	E17
LSF33	F11	MLGL3CD5BUH	A39	MLGL9CD1/MLGH9CD1	A38	MREP4316B	B13	PPAL062416C80N	E17
LSF33	F13	MLGL3CDW	A38	MLGL9CD3/MLGH9CD3	A38	MREP4316P	B13	PPAL062416CG030	E17
LSF33	F15	MLGL3CDWBUE	A39	MLGL9CD5/MLGH9CD5	A38	MRES4316PT3KH	B14	PPAL064216C1	E17
LSF33	F17	MLGL3CDWBUH	A39	MLGL9CDW/MLGH9CDW	A38	MRES4316PT4KH	B14	PPAL064216C1G030	E17
LSF33	F36	MLGL3CG1	A38	MLGL9CG1/MLGH9CG1	A38	MRK	D102	PPAL064216C4	E17
LSF34	F7	MLGL3CG1BUE	A39	MLGL9CG3/MLGH9CG3	A38	MRP	D102	PPAL064216C4G030	E17
LSF34	F9	MLGL3CG1BUH	A39	MLGL9CG5/MLGH9CG5	A38	MSB003D42	D114	PPAL064216C5	E17
LSF34	F11	MLGL3CG3	A38	MLGL9CGW/MLGH9CGW	A38	MSB003D42F	D114	PPAL064216C20N	E17
LSF34	F13	MLGL3CG3BUE	A39	MLGL9CJ5/MLGH9CJ5	A38	MSB005D42	D114	PPAL064216C30N	E17
LSF34	F15	MLGL3CG3BUH	A39	MLGL9CP1/MLGH9CP1	A38	MSB005D42F	D114	PPAL064216C40N	E17
LSF34	F17	MLGL3CG5	A38	MLGL9CP3/MLGH9CP3	A38	MSB007D42	D114	PPAL064216C50N	E17
LSF34	F36	MLGL3CG5BUE	A39	MLGL9CP5/MLGH9CP5	A38	MSB007D42F	D114	PPAL064216C60N	E17
LSF35	F7	MLGL3CG5BUH	A39	MLGL9CPW/MLGH9CPW	A38	MSB011D42	D114	PPAL064216C70N	E17
LSF35	F9	MLGL3CGW	A38	MLGX1CD1	A38	MSB011D42F	D114	PPAL064216CG030	E17
LSF35	F11	MLGL3CGWBUE	A39	MLGX1CD3	A38	MSB015D42	D114	PPAL064416C	E17
LSF35	F13	MLGL3CGWBUH	A39	MLGX1CD5	A38	MSB015D42F	D114	PPAL064416C10N	E17
LSF35	F15	MLGL3CJ5	A38	MLGX1CDW	A38	MSB022D42	D114	PPAL068216C	E17
LSF35	F17	MLGL3CP1	A38	MLGX1CG1	A38	MSB022D42F	D114	PPAL068216C10N	E17
LSF35	F36	MLGL3CP1BUE	A39	MLGX1CG3	A38	MSB030D42	D114	PPBM052316C1G030	E21
MGU1	A12	MLGL3CP1BUH	A39	MLGX1CG5	A38	MSB030D42F	D114	PPBM052316C4G030	E21
MGU1	A41	MLGL3CP3	A38	MLGX1CGW	A38	MSB040D42	D114	PPBM052316C5	E21
MGU1	A60	MLGL3CP3BUE	A39	MLGX1CJ5	A38	MSB040D42F	D114	PPBM052316C5G030	E21
MGU1	A80	MLGL3CP3BUH	A39	MLGX1CP1	A38	MSB055D42	D114	PPBM052316C40N	E21
MGU1	A95	MLGL3CP5	A38	MLGX1CP3	A38	MSB055D42F	D114	PPBM052316C50N	E21
MGU1	A119	MLGL3CP5BUE	A39	MLGX1CP5	A38	MSB075D42	D114	PPBM052316C60N	E21
MGU1	A143	MLGL3CP5BUH	A39	MLGX1CPW	A38	MSB075D42F	D114	PPBM052316C70N	E21
MGU1	A167	MLGL3CPW	A38	MLGX5CD1	A38	MSB090D42	D114	PPBM052316C80N	E21
MGU1	A180	MLGL3CPWBUE	A39	MLGX5CD3	A38	MSB090D42F	D114	PPBM052316CG030	E21
MLF5	A43	MLGL3CPWBUH	A39	MLGX5CD5	A38	MSB110D42	D114	PPBM054316C	E21
MLF5	A83	MLGL5CD1	A38	MLGX5CDW	A38	MSB110D42F	D114	PPBM054316C1	E21
MLF5	A145	MLGL5CD1BUE	A39	MLGX5CG1	A38	MSB150D42	D114	PPBM054316C4	E21
MLF5	A170	MLGL5CD1BUH	A39	MLGX5CG3	A38	MSB150D42F	D114	PPBM054316C10N	E21
MLGH1CD1	A38	MLGL5CD3	A38	MLGX5CG5	A38	MSB185D42	D114	PPBM054316C20N	E21
MLGH1CD3	A38	MLGL5CD3BUE	A39	MLGX5CGW	A38	MSB185D42F	D114	PPBM054316C30N	E21
MLGH1CD5	A38	MLGL5CD3BUH	A39	MLGX5CJ5	A38	MSB220D42	D114	PPBM062216C5G030	E21
MLGH1CDW	A38	MLGL5CD5	A38	MLGX5CP1	A38	MSB220D42F	D114	PPBM062216C80N	E21
MLGH1CG1	A38	MLGL5CD5BUE	A39	MLGX5CP3	A38	MSB300D42	D114	PPBM062416C1	E21
MLGH1CG3	A38	MLGL5CD5BUH	A39	MLGX5CP5	A38	MSB300D42F	D114	PPBM062416C1G030	E21
MLGH1CG5	A38	MLGL5CDW	A38	MLGX5CPW	A38	MSB370D42	D114	PPBM062416C4	E21
MLGH1CGW	A38	MLGL5CDWBUE	A39	MMADCHVA	A12	MSB370D42F	D114	PPBM062416C4G030	E21
MLGH1CJ5	A38	MLGL5CDWBUH	A39	MMADCHVA	A41	MSB450D42	D114	PPBM062416C5	E21
MLGH1CP1	A38	MLGL5CG1	A38	MMADCHVA	A80	MSB450D42F	D114	PPBM062416C5G030	E21
MLGH1CP3	A38	MLGL5CG1BUE	A39	MMADCHVA	A119	MSB550D42	D114	PPBM062416C20N	E21
MLGH1CP5	A38	MLGL5CG1BUH	A39	MMADCHVA	A143	MSB550D42F	D114	PPBM062416C30N	E21
MLGH1CPW	A38	MLGL5CG3	A38	MMADCHVA	A166	MSB750D42	D114	PPBM062416C40N	E21
MLGH3CD1	A38	MLGL5CG3BUE	A39	MMADCHVS	A12	MSB750D42F	D114	PPBM062416C50N	E21
MLGH3CD3	A38	MLGL5CG3BUH	A39	MMADCHVS	A41	NPW	C28	PPBM062416C60N	E21
MLGH3CD5	A38	MLGL5CG5	A38	MMADCHVS	A80	NPY	C28	PPBM062416C70N	E21
MLGH3CDW	A38	MLGL5CG5BUE	A39	MMADCHVS	A119	PG	D102	PPBM062416C80N	E21
MLGH3CG1	A38	MLGL5CG5BUH	A39	MMADCHVS	A143	PPAL052316C1G030	E17	PPBM062416CG030	E21
MLGH3CG3	A38	MLGL5CGW	A38	MMADCHVS	A166	PPAL052316C4G030	E17	PPBM064216C1	E21
MLGH3CG5	A38	MLGL5CGWBUE	A39	MMADIIA	A12	PPAL052316C5	E17	PPBM064216C1G030	E21
MLGH3CGW	A38	MLGL5CGWBUH	A39	MMADIIA	A41	PPAL052316C5G030	E17	PPBM064216C4	E21
MLGH3CJ5	A38	MLGL5CJ5	A38	MMADIIA	A80	PPAL052316C40N	E17	PPBM064216C4G030	E21
MLGH3CP1	A38	MLGL5CP1	A38	MMADIIA	A119	PPAL052316C50N	E17	PPBM064216C5	E21
MLGH3CP3	A38	MLGL5CP1BUE	A39	MMADIIA	A143	PPAL052316C60N	E17	PPBM064216C20N	E21
MLGH3CP5	A38	MLGL5CP1BUH	A39	MMADIIA	A166	PPAL052316C70N	E17	PPBM064216C30N	E21
MLGH3CPW	A38	MLGL5CP3	A38	MMADIIIS	A12	PPAL052316C80N	E17	PPBM064216C40N	E21
MLGH6CD1	A38	MLGL5CP3BUE	A39	MMADIIIS	A41	PPAL052316CG030	E17	PPBM064216C50N	E21
MLGH6CD3	A38	MLGL5CP3BUH	A39	MMADIIIS	A80	PPAL054316C	E17	PPBM064216C60N	E21
MLGH6CD5	A38	MLGL5CP5	A38	MMADIIIS	A119	PPAL054316C1	E17	PPBM064216C70N	E21
MLGH6CDW	A38	MLGL5CP5BUE	A39	MMADIIIS	A143	PPAL054316C4	E17	PPBM064216CG030	E21
MLGH6CG1	A38	MLGL5CP5BUH	A39	MMADIIIS	A166	PPAL054316C10N	E17	PPBM064416C	E21
MLGH6CG3	A38	MLGL5CPW	A38	MMADKVA	A12	PPAL054316C20N	E17	PPBM064416C10N	E21
MLGH6CG5	A38	MLGL5CPWBUE	A39	MMADKVA	A41	PPAL054316C30N	E17	PPBM068216C	E21
MLGH6CGW	A38	MLGL5CPWBUH	A39	MMADKVA	A80	PPAL062216C5G030	E17	PPBM068216C10N	E21

Alphanumeric Index

PPCM053316C1G030	E25	PPDM098316C10N	E29	PPFM109416C4	E37	PRE432FB	B9	PSAL064216C20N	E19
PPCM053316C4G030	E25	PPDM098316C20N	E29	PPFM109416C4G030	E37	PRE432FN	B9	PSAL064216C30N	E19
PPCM053316C5	E25	PPDM098316C30N	E29	PPFM109416C5	E37	PRE432FR	B9	PSAL064216C40N	E19
PPCM053316C5G030	E25	PPDM108216C1	E29	PPFM109416C5G030	E37	PRE432MB	B9	PSAL064216C50N	E19
PPCM053316C40N	E25	PPDM108216C1G030	E29	PPFM109416C20N	E37	PRE432MN	B9	PSAL064216C60N	E19
PPCM053316C50N	E25	PPDM108216C4	E29	PPFM109416C30N	E37	PRE432MR	B9	PSAL064216C70N	E19
PPCM053316C60N	E25	PPDM108216C4G030	E29	PPFM109416C40N	E37	PRE432PB	B9	PSAL064216CG030	E19
PPCM053316C70N	E25	PPDM108216C5	E29	PPFM109416C50N	E37	PRE432PN	B9	PSAL064416C	E19
PPCM053316C80N	E25	PPDM108216C20N	E29	PPFM109416C60N	E37	PRE432PR	B9	PSAL064416C10N	E19
PPCM053316CG030	E25	PPDM108216C30N	E29	PPFM109416C70N	E37	PRE432RB	B9	PSAL068216C	E19
PPCM056316C	E25	PPDM108216C40N	E29	PPFM109416C80N	E37	PRE432RN	B9	PSAL068216C10N	E19
PPCM056316C1	E25	PPDM108216C50N	E29	PPFM109416CG030	E37	PRE432RR	B9	PSBM052316C1G030	E23
PPCM056316C4	E25	PPDM108216C60N	E29	PPFM1518316C	E37	PRE516FB	B5	PSBM052316C4G030	E23
PPCM056316C10N	E25	PPDM108216C70N	E29	PPFM1518316C1	E37	PRE516FG	B5	PSBM052316C5	E23
PPCM056316C20N	E25	PPDM108216CG030	E29	PPFM1518316C4	E37	PRE516FR	B5	PSBM052316C5G030	E23
PPCM056316CG030	E25	PPDM1416216C	E29	PPFM1518316C10N	E37	PRE516MB	B5	PSBM052316C60N	E23
PPCM063216C5G030	E25	PPDM1416216C10N	E29	PPFM1518316C20N	E37	PRE516MG	B5	PSBM052316C50N	E23
PPCM063216C80N	E25	PPEM056316C1G030	E33	PPFM1518316C30N	E37	PRE516MR	B5	PSBM052316C60N	E23
PPCM063416C1	E25	PPEM056316C4G030	E33	PPFM1618216C1	E37	PRE516PB	B5	PSBM052316C70N	E23
PPCM063416C1G030	E25	PPEM056316C5	E33	PPFM1618216C1G030	E37	PRE516PG	B5	PSBM052316C80N	E23
PPCM063416C4	E25	PPEM056316C5G030	E33	PPFM1618216C4	E37	PRE516PR	B5	PSBM052316CG030	E23
PPCM063416C4G030	E25	PPEM056316C40N	E33	PPFM1618216C4G030	E37	PRE516RB	B5	PSBM054316C	E23
PPCM063416C5	E25	PPEM056316C50N	E33	PPFM1618216C5	E37	PRE516RG	B5	PSBM054316C1	E23
PPCM063416C5G030	E25	PPEM056316C60N	E33	PPFM1618216C20N	E37	PRE516RR	B5	PSBM054316C4	E23
PPCM063416C20N	E25	PPEM056316C70N	E33	PPFM1618216C30N	E37	PRE532FB	B9	PSBM054316C10N	E23
PPCM063416C30N	E25	PPEM056316C80N	E33	PPFM1618216C40N	E37	PRE532FR	B9	PSBM054316C20N	E23
PPCM063416C40N	E25	PPEM056316CG030	E33	PPFM1618216C50N	E37	PRE532PB	B9	PSBM054316C30N	E23
PPCM063416C50N	E25	PPEM066216C5G030	E33	PPFM1618216C60N	E37	PRE532PR	B9	PSBM062216C5G030	E23
PPCM063416C60N	E25	PPEM066216C80N	E33	PPFM1618216C70N	E37	PRE532RB	B9	PSBM062216C80N	E23
PPCM063416C70N	E25	PPEM066416C1	E33	PPFM1618216CG030	E37	PRE532RR	B9	PSBM062416C1	E23
PPCM063416C80N	E25	PPEM066416C1G030	E33	PPFM1618416C	E37	PRE616FP	B4	PSBM062416C1G030	E23
PPCM063416CG030	E25	PPEM066416C4	E33	PPFM1618416C10N	E37	PRE616FW	B4	PSBM062416C4	E23
PPCM066216C1	E25	PPEM066416C4G030	E33	PPFM1636216C	E37	PRE616MP	B4	PSBM062416C4G030	E23
PPCM066216C1G030	E25	PPEM066416C5	E33	PPFM1636216C10N	E37	PRE616MW	B4	PSBM062416C5	E23
PPCM066216C4	E25	PPEM066416C5G030	E33	PR	D102	PRE616PP	B4	PSBM062416C5G030	E23
PPCM066216C4G030	E25	PPEM066416C20N	E33	PRE216FP	B4	PRE616PW	B4	PSBM062416C20N	E23
PPCM066216C5	E25	PPEM066416C30N	E33	PRE216FW	B4	PRE616RP	B4	PSBM062416C30N	E23
PPCM066216C20N	E25	PPEM066416C40N	E33	PRE216FW1	B4	PRE616RW	B4	PSBM062416C40N	E23
PPCM066216C30N	E25	PPEM066416C50N	E33	PRE216MP	B4	PREECAM20	B5	PSBM062416C50N	E23
PPCM066216C40N	E25	PPEM066416C60N	E33	PRE216MW	B4	PREECAM20	B10	PSBM062416C60N	E23
PPCM066216C50N	E25	PPEM066416C70N	E33	PRE216MW1	B4	PREESTM20	B5	PSBM062416C70N	E23
PPCM066216C60N	E25	PPEM066416C80N	E33	PRE216PP	B4	PREESTM20	B10	PSBM062416C80N	E23
PPCM066216C70N	E25	PPEM066416CG030	E33	PRE216PW	B4	PSAL052316C1G030	E19	PSBM062416CG030	E23
PPCM066216CG030	E25	PPEM0612416C	E33	PRE216PW1	B4	PSAL052316C4G030	E19	PSBM064216C1	E23
PPCM066416C	E25	PPEM0612416C10N	E33	PRE216RP	B4	PSAL052316C5	E19	PSBM064216C1G030	E23
PPCM066416C10N	E25	PPEM1112316C	E33	PRE216RW	B4	PSAL052316C5G030	E19	PSBM064216C4	E23
PPCM1212216C	E25	PPEM1112316C1	E33	PRE216RW1	B4	PSAL052316C40N	E19	PSBM064216C4G030	E23
PPCM1212216C10N	E25	PPEM1112316C4	E33	PRE316FB	B4	PSAL052316C50N	E19	PSBM064216C5	E23
PPDM054316C1G030	E29	PPEM1112316C10N	E33	PRE316FP	B4	PSAL052316C60N	E19	PSBM064216C20N	E23
PPDM054316C4G030	E29	PPEM1112316C20N	E33	PRE316FY	B4	PSAL052316C70N	E19	PSBM064216C30N	E23
PPDM054316C5	E29	PPEM1112316C30N	E33	PRE316MB	B4	PSAL052316C80N	E19	PSBM064216C40N	E23
PPDM054316C5G030	E29	PPEM1212216C1	E33	PRE316MP	B4	PSAL052316CG030	E19	PSBM064216C50N	E23
PPDM054316C40N	E29	PPEM1212216C1G030	E33	PRE316MY	B4	PSAL054316C	E19	PSBM064216C60N	E23
PPDM054316C50N	E29	PPEM1212216C4	E33	PRE316PB	B4	PSAL054316C1	E19	PSBM064216C70N	E23
PPDM054316C60N	E29	PPEM1212216C4G030	E33	PRE316PP	B4	PSAL054316C4	E19	PSBM064216CG030	E23
PPDM054316C70N	E29	PPEM1212216C5	E33	PRE316PY	B4	PSAL054316C10N	E19	PSBM064416C	E23
PPDM054316C80N	E29	PPEM1212216C20N	E33	PRE316RB	B4	PSAL054316C20N	E19	PSBM064416C10N	E23
PPDM054316CG030	E29	PPEM1212216C30N	E33	PRE316RP	B4	PSAL054316C30N	E19	PSBM068216C	E23
PPDM064216C5G030	E29	PPEM1212216C40N	E33	PRE316RY	B4	PSAL062216C5G030	E19	PSBM068216C10N	E23
PPDM064216C80N	E29	PPEM1212216C50N	E33	PRE332FB	B9	PSAL062216C80N	E19	PSCM053316C1G030	E27
PPDM064416C1	E29	PPEM1212216C60N	E33	PRE332FY	B9	PSAL062416C1	E19	PSCM053316C4G030	E27
PPDM064416C1G030	E29	PPEM1212216C70N	E33	PRE332MB	B9	PSAL062416C1G030	E19	PSCM053316C5	E27
PPDM064416C4	E29	PPEM1212216CG030	E33	PRE332MY	B9	PSAL062416C4	E19	PSCM053316C5G030	E27
PPDM064416C4G030	E29	PPEM1624216C	E33	PRE332PB	B9	PSAL062416C4G030	E19	PSCM053316C40N	E27
PPDM064416C5	E29	PPEM1624216C10N	E33	PRE332PY	B9	PSAL062416C5	E19	PSCM053316C50N	E27
PPDM064416C5G030	E29	PPFM099316C1G030	E37	PRE332RB	B9	PSAL062416C5G030	E19	PSCM053316C60N	E27
PPDM064416C20N	E29	PPFM099316C4G030	E37	PRE332RY	B9	PSAL062416C20N	E19	PSCM053316C70N	E27
PPDM064416C30N	E29	PPFM099316C5	E37	PRE416FB	B5	PSAL062416C30N	E19	PSCM053316C80N	E27
PPDM064416C40N	E29	PPFM099316C5G030	E37	PRE416FN	B5	PSAL062416C40N	E19	PSCM053316CG030	E27
PPDM064416C50N	E29	PPFM099316C40N	E37	PRE416FR	B5	PSAL062416C50N	E19	PSCM056316C	E27
PPDM064416C60N	E29	PPFM099316C50N	E37	PRE416MB	B5	PSAL062416C60N	E19	PSCM056316C1	E27
PPDM064416C70N	E29	PPFM099316C60N	E37	PRE416MN	B5	PSAL062416C70N	E19	PSCM056316C4	E27
PPDM064416C80N	E29	PPFM099316C70N	E37	PRE416MR	B5	PSAL062416C80N	E19	PSCM056316C10N	E27
PPDM064416CG030	E29	PPFM099316C80N	E37	PRE416PB	B5	PSAL062416CG030	E19	PSCM056316C20N	E27
PPDM068416C	E29	PPFM099316CG030	E37	PRE416PN	B5	PSAL064216C1	E19	PSCM056316C30N	E27
PPDM068416C10N	E29	PPFM109216C5G030	E37	PRE416PR	B5	PSAL064216C1G030	E19	PSCM063216C5G030	E27
PPDM098316C	E29	PPFM109216C80N	E37	PRE416RB	B5	PSAL064216C4	E19	PSCM063216C80N	E27
PPDM098316C1	E29	PPFM109416C1	E37	PRE416RN	B5	PSAL064216C4G030	E19	PSCM063416C1	E27
PPDM098316C4	E29	PPFM109416C1G030	E37	PRE416RR	B5	PSAL064216C5	E19	PSCM063416C1G030	E27

Alphanumeric Index

PSCM063416C4	E27	PSEM056316C5G030	E35	PSFM1618216C4	E39	PVC21	F19	SK4A185	D61
PSCM063416C4G030	E27	PSEM056316C40N	E35	PSFM1618216C4G030	E39	PVC21	F20	SK4A185	D62
PSCM063416C5	E27	PSEM056316C50N	E35	PSFM1618216C5	E39	PVC21	F24	SK4A185	D62
PSCM063416C5G030	E27	PSEM056316C60N	E35	PSFM1618216C20N	E39	PVC21	F36	SK4A185	D81
PSCM063416C20N	E27	PSEM056316C70N	E35	PSFM1618216C30N	E39	PVC23	F7	SWD016C100A	D124
PSCM063416C30N	E27	PSEM056316C80N	E35	PSFM1618216C40N	E39	PVC23	F9	SWD016C100C	D124
PSCM063416C40N	E27	PSEM056316CG030	E35	PSFM1618216C50N	E39	PVC23	F11	SWD016S200A	D124
PSCM063416C50N	E27	PSEM066216C5G030	E35	PSFM1618216C60N	E39	PVC23	F13	SWD016S200C	D124
PSCM063416C60N	E27	PSEM066216C80N	E35	PSFM1618216C70N	E39	PVC23	F15	SWD016S300A	D124
PSCM063416C70N	E27	PSEM066416C1	E35	PSFM1618216CG030	E39	PVC23	F17	SWD016S300C	D124
PSCM063416C80N	E27	PSEM066416C1G030	E35	PSFM1618416C	E39	PVC23	F19	SWD016S400A	D124
PSCM063416CG030	E27	PSEM066416C4	E35	PSFM1618416C10N	E39	PVC23	F20	SWD016S400C	D124
PSCM066216C1	E27	PSEM066416C4G030	E35	PSFM1836216C	E39	PVC23	F24	SWD020S300B	D128
PSCM066216C1G030	E27	PSEM066416C5	E35	PSFM1836216C10N	E39	PVC23	F36	SWD020S400B	D128
PSCM066216C4	E27	PSEM066416C5G030	E35	PVC04	F7	PVC25	F9	SWD032S200A	D124
PSCM066216C4G030	E27	PSEM066416C20N	E35	PVC04	F9	PVC25	F11	SWD032S200C	D124
PSCM066216C5	E27	PSEM066416C30N	E35	PVC04	F11	PVC25	F13	SWD032S300A	D124
PSCM066216C20N	E27	PSEM066416C40N	E35	PVC04	F13	PVC25	F15	SWD032S300C	D124
PSCM066216C30N	E27	PSEM066416C50N	E35	PVC04	F15	PVC25	F17	SWD032S300D	D128
PSCM066216C40N	E27	PSEM066416C60N	E35	PVC04	F36	PVC25	F19	SWD032S300DV	D128
PSCM066216C50N	E27	PSEM066416C70N	E35	PVC05	F7	PVC25	F20	SWD032S400A	D124
PSCM066216C60N	E27	PSEM066416C80N	E35	PVC06	F9	PVC25	F24	SWD032S400C	D124
PSCM066216C70N	E27	PSEM066416CG030	E35	PVC06	F11	PVC25	F36	SWD032S400D	D128
PSCM066216CG030	E27	PSEM0612416C	E35	PVC06	F13	PVC26	F7	SWD032S400DV	D128
PSCM066416C	E27	PSEM0612416C10N	E35	PVC06	F15	PVC27	F19	SWD063S300E	D128
PSCM066416C10N	E27	PSEM1112316C	E35	PVC06	F17	PVC27	F20	SWD063S300EV	D128
PSCM11212216C	E27	PSEM1112316C1	E35	PVC06	F19	PVC28	F9	SWD063S400E	D128
PSCM11212216C10N	E27	PSEM1112316C4	E35	PVC06	F20	PVC28	F11	SWD063S400EV	D128
PSDM054316C1G030	E31	PSEM1112316C10N	E35	PVC06	F24	PVC28	F13	SWD100S300F	D128
PSDM054316C4G030	E31	PSEM1112316C20N	E35	PVC06	F36	PVC28	F15	SWD100S400F	D128
PSDM054316C5	E31	PSEM1112316C30N	E35	PVC09	F7	PVC28	F17	SWD125S300G	D128
PSDM054316C5G030	E31	PSEM11212216C1	E35	PVC09	F9	PVC28	F24	SWD125S300GV	D128
PSDM054316C40N	E31	PSEM11212216C1G030	E35	PVC09	F11	PVC28	F36	SWD125S400G	D128
PSDM054316C50N	E31	PSEM11212216C4	E35	PVC09	F13	PVC30	F9	SWD125S400GV	D128
PSDM054316C60N	E31	PSEM11212216C60N	E35	PVC09	F15	PVC30	F11	SWD160S300G	D128
PSDM054316C70N	E31	PSEM11212216C5	E35	PVC09	F17	PVC30	F13	SWD160S300GV	D128
PSDM054316C80N	E31	PSEM11212216C20N	E35	PVC09	F19	PVC30	F15	SWD160S400G	D128
PSDM054316CG030	E31	PSEM11212216C30N	E35	PVC09	F20	PVC30	F17	SWD160S400GV	D128
PSDM064216C5G030	E31	PSEM11212216C40N	E35	PVC09	F24	PVC30	F24	SWD250S300H	D128
PSDM064216C80N	E31	PSEM11212216C50N	E35	PVC09	F36	PVC30	F36	SWD250S400H	D128
PSDM064416C1	E31	PSEM11212216C60N	E35	PVC10	F7	PVC31	F7	SWE016C100A	D120
PSDM064416C1G030	E31	PSEM11212216C70N	E35	PVC10	F19	PVC31	F19	SWE016C101AG	D120
PSDM064416C4	E31	PSEM11212216CG030	E35	PVC10	F20	PVC31	F20	SWE016C101AP	D120
PSDM064416C4G030	E31	PSEM1624216C	E35	PVC11	F9	PVC31	F24	SWE016S200A	D120
PSDM064416C5	E31	PSEM1624216C10N	E35	PVC11	F11	PVC32	F9	SWE016S201AG	D120
PSDM064416C5G030	E31	PSFM099316C1G030	E39	PVC11	F13	PVC32	F11	SWE016S201AP	D120
PSDM064416C20N	E31	PSFM099316C4G030	E39	PVC11	F15	PVC32	F13	SWE020C100AG	D120
PSDM064416C30N	E31	PSFM099316C5	E39	PVC11	F17	PVC32	F15	SWE020S202AG	D120
PSDM064416C40N	E31	PSFM099316C5G030	E39	PVC11	F24	PVC32	F17	SWE020S301AG	D120
PSDM064416C50N	E31	PSFM099316C40N	E39	PVC11	F36	PVC32	F24	SWE020S401AG	D120
PSDM064416C60N	E31	PSFM099316C50N	E39	PVC13	F7	PVC32	F36	TBP44	C3
PSDM064416C70N	E31	PSFM099316C60N	E39	PVC13	F19	PVC36	F17	TRE100A2	D91
PSDM064416C80N	E31	PSFM099316C70N	E39	PVC13	F20	PVC36	F36	TRE100A3	D91
PSDM064416CG030	E31	PSFM099316C80N	E39	PVC15	F7	RAPIDEX30P	F20	TRE100B2	D91
PSDM068416C	E31	PSFM099316CG030	E39	PVC15	F9	RAPIDEX30P	F24	TRE160A2	D91
PSDM068416C10N	E31	PSFM109216C5G030	E39	PVC15	F11	RAPIDEX80P	F20	TRE160A3	D91
PSDM098316C	E31	PSFM109216C80N	E39	PVC15	F13	RAPIDEX80P	F24	TRE160B2	D91
PSDM098316C1	E31	PSFM109416C1	E39	PVC15	F15	SH0200001-1	C105	TRE250A2	D91
PSDM098316C4	E31	PSFM109416C1G030	E39	PVC15	F17	SH0200001-2	C105	TRE250A3	D91
PSDM098316C10N	E31	PSFM109416C4	E39	PVC15	F19	SH0200001-3	C105	TRE250B2	D91
PSDM098316C20N	E31	PSFM109416C4G030	E39	PVC15	F20	SH0200001-4	C105	TRE400A2	D91
PSDM098316C30N	E31	PSFM109416C5	E39	PVC15	F24	SH0200001-5	C105	TRE400A3	D91
PSDM108216C1	E31	PSFM109416C5G030	E39	PVC15	F36	SH0200001-6	C105	TRE400B2	D91
PSDM108216C1G030	E31	PSFM109416C20N	E39	PVC18	F7	SH0200001-7	C105	U2AE48C1F2JP	D83
PSDM108216C4	E31	PSFM109416C30N	E39	PVC18	F9	SH0200001-8	C105	U2AE48C1F2JR	D83
PSDM108216C4G030	E31	PSFM109416C40N	E39	PVC18	F11	SH0200001-9	C105	U2AE48C1F3JP	D83
PSDM108216C5	E31	PSFM109416C50N	E39	PVC18	F13	SH0200001-10	C105	U2AE48C1F3JR	D83
PSDM108216C20N	E31	PSFM109416C60N	E39	PVC18	F15	SH0200001-11	C105	U2AE48C1F5JP	D83
PSDM108216C30N	E31	PSFM109416C70N	E39	PVC18	F17	SH0200001-12	C105	U2AE48C1F5JR	D83
PSDM108216C40N	E31	PSFM109416C80N	E39	PVC18	F19	SH0200001-13	C105	U2AE48C1F6JP	D83
PSDM108216C50N	E31	PSFM109416CG030	E39	PVC18	F20	SH0200001-14	C105	U2AE48C1F6JR	D83
PSDM108216C60N	E31	PSFM1518316C	E39	PVC18	F24	SH01700017	C105	U2AE48C5F2JP	D83
PSDM108216C70N	E31	PSFM1518316C1	E39	PVC18	F36	SH01700097	C105	U2AE48C5F2JR	D83
PSDM108216CG030	E31	PSFM1518316C4	E39	PVC21	F7	SH02200011	C105	U2AE48C5F3JP	D83
PSDM1416216C	E31	PSFM1518316C10N	E39	PVC21	F9	SH02200013	C105	U2AE48C5F3JR	D83
PSDM1416216C10N	E31	PSFM1518316C20N	E39	PVC21	F11	SK4A185	D14	U2AE48C5F5JP	D83
PSEM056316C1G030	E35	PSFM1518316C30N	E39	PVC21	F13	SK4A185	D23	U2AE48C5F5JR	D83
PSEM056316C4G030	E35	PSFM1618216C1	E39	PVC21	F15	SK4A185	D37	U2AE48C5F6JP	D83
PSEM056316C5	E35	PSFM1618216C1G030	E39	PVC21	F17	SK4A185	D61	U2AE48C5F6JR	D83

Alphanumeric Index

U2AE72C1F2JP	D84	U21W4R9	D5	U23W4PRA3A3	D12	U61W2D3	D28	U62W4CA13	D35
U2AE72C1F2JR	D84	U21W101	D42	U23W4PRA5A9	D12	U61W2D9	D28	U62W4PGA3	D34
U2AE72C1F3JP	D84	U21W102	D42	U23W111	D43	U61W2D9A5	D28	U62W4PGA5	D34
U2AE72C1F3JR	D84	U21W201	D42	U23W114	D43	U61W2E3	D29	U62W4PGA5A9	D35
U2AE72C1F5JP	D84	U21W202	D42	U23W116	D43	U61W2E5	D29	U62W4PRA3	D34
U2AE72C1F5JR	D84	U21W301	D42	U23W117	D43	U61W2E9	D29	U62W4PRA9	D34
U2AE72C1F6JP	D84	U21W302	D42	U23W118	D43	U61W2H3	D32	U62W104	D44
U2AE72C1F6JR	D84	U21W401	D42	U23W120	D43	U61W2J1	D32	U62W129	D44
U2AE72C5F2JP	D84	U21W402	D42	U23W211	D43	U61W2LG5	D31	U62W204	D44
U2AE72C5F2JR	D84	U22U104	D42	U23W214	D43	U61W2LG5LR9	D31	U62W229	D44
U2AE72C5F3JP	D84	U22U106	D42	U23W216	D43	U61W2LR9	D31	U62W304	D44
U2AE72C5F3JR	D84	U22U108	D42	U23W217	D43	U61W2M3	D32	U62W329	D44
U2AE72C5F5JP	D84	U22U304	D42	U23W218	D43	U61W2N3	D32	U62W404	D44
U2AE72C5F5JR	D84	U22U306	D42	U23W220	D43	U61W2PB	D30	U62W429	D44
U2AE72C5F6JP	D84	U22U308	D42	U23W311	D43	U61W2PG	D30	U63U130	D44
U2AE72C5F6JR	D84	U22W2A3A3	D9	U23W314	D43	U61W2PGPR	D31	U63U330	D44
U2VE48300P	D87	U22W2A3D3	D9	U23W316	D43	U61W2PR	D30	U63W2CA13A5A9	D36
U2VE48300R	D87	U22W2A5A9	D9	U23W317	D43	U61W2PW	D30	U63W2CA13M3	D36
U2VE72500P	D87	U22W2A5A9D9	D10	U23W318	D43	U61W2PY	D30	U63W2PGA5A9D9	D36
U2VE72500R	D87	U22W2A5D9	D9	U23W320	D43	U61W2R9	D29	U63W2PGPRA5A9	D36
U21U101	D42	U22W2PGA3	D10	U23W411	D43	U61W4A3	D27	U63W2PGPRD9A5	D36
U21U102	D42	U22W2PGA5	D10	U23W414	D43	U61W4A3A3	D27	U63W4CA13A5A9	D36
U21U301	D42	U22W2PGA5A9	D11	U23W416	D43	U61W4A5	D27	U63W4CA13M3	D36
U21U302	D42	U22W2PGPRA5A9	D11	U23W417	D43	U61W4A5A9	D27	U63W4PGA5A9D9	D36
U21W2A3	D3	U22W2PRA3	D10	U23W418	D43	U61W4A9	D27	U63W4PGPRA5A9	D36
U21W2A3A3	D3	U22W2PRA9	D10	U23W420	D43	U61W4B3	D29	U63W4PGPRD9A5	D36
U21W2A5	D3	U22W4A3A3	D9	U41W2A3	D18	U61W4C3	D28	U63W130	D44
U21W2A5A9	D3	U22W4A3D3	D9	U41W2A5	D18	U61W4C9	D28	U63W230	D44
U21W2A9	D3	U22W4A5A9	D9	U41W2A9	D18	U61W4D3	D28	U63W330	D44
U21W2B3	D5	U22W4A5A9D9	D10	U41W2B3	D18	U61W4D9	D28	U63W430	D44
U21W2C3	D4	U22W4A5D9	D9	U41W2C3	D18	U61W4D9A5	D28	UA0BP	D58
U21W2C9	D4	U22W4PGA3	D10	U41W2C9	D18	U61W4E3	D29	UA0BR	D58
U21W2D3	D4	U22W4PGA5	D10	U41W2D3	D18	U61W4E5	D29	UA0GP	D58
U21W2D9	D4	U22W4PGA5A9	D11	U41W2D9	D18	U61W4E9	D29	UA0GR	D58
U21W2D9A5	D4	U22W4PGPRA5A9	D11	U41W2E3	D18	U61W4H3	D32	UA0NP	D58
U21W2E3	D5	U22W4PRA3	D10	U41W2H3	D19	U61W4J1	D32	UA0NR	D58
U21W2E5	D5	U22W4PRA9	D10	U41W2J1	D19	U61W4LG5	D31	UA0RGP	D58
U21W2E9	D5	U22W104	D42	U41W2M3	D19	U61W4LG5LR9	D31	UA0RGR	D58
U21W2H3	D8	U22W106	D42	U41W2N3	D19	U61W4LR9	D31	UA0RP	D58
U21W2J1	D8	U22W108	D42	U41W2PB	D19	U61W4M3	D32	UA0RR	D58
U21W2LG5	D7	U22W204	D42	U41W2PG	D19	U61W4N3	D32	UA0WP	D58
U21W2LG5LR9	D7	U22W206	D42	U41W2PR	D19	U61W4PB	D30	UA0WR	D58
U21W2LR9	D7	U22W208	D42	U41W2PW	D19	U61W4PG	D30	UA0YP	D58
U21W2M3	D8	U22W304	D42	U41W2PY	D19	U61W4PGPR	D31	UA0YR	D58
U21W2N3	D8	U22W306	D42	U41W2R9	D18	U61W4PR	D30	UB0P	D60
U21W2PB	D6	U22W308	D42	U41W201	D41	U61W4PW	D30	UB0R	D60
U21W2PG	D6	U22W404	D42	U42W2A3A3	D19	U61W4PY	D30	UBP	D61
U21W2PGPR	D7	U22W406	D42	U42W2A3D3	D20	U61W4R9	D29	UBP	D82
U21W2PR	D6	U22W408	D42	U42W2A5A9	D19	U61W101	D44	UC0P	D61
U21W2PW	D6	U23U111	D43	U42W2A5D9	D20	U61W127	D44	UC0R	D61
U21W2PY	D6	U23U114	D43	U42W2CA13	D20	U61W201	D44	UCB5P	D58
U21W2R9	D5	U23U116	D43	U42W2PGA3	D20	U61W227	D44	UCB5P	D60
U21W4A3	D3	U23U117	D43	U42W2PGA5	D20	U61W301	D44	UCB5P	D61
U21W4A3A3	D3	U23U118	D43	U42W2PRA3	D20	U61W327	D44	UCB5P	D62
U21W4A5	D3	U23U120	D43	U42W2PRA9	D20	U61W401	D44	UCB5P	D64
U21W4A5A9	D3	U23U311	D43	U42W204	D41	U61W427	D44	UCB5P	D66
U21W4A9	D3	U23U314	D43	U42W234	D41	U62U104	D44	UCB5P	D69
U21W4B3	D5	U23U316	D43	U43W2A3A3D3	D21	U62U129	D44	UCB5R	D15
U21W4C3	D4	U23U317	D43	U43W2A5A9D3	D21	U62U304	D44	UCB5R	D24
U21W4C9	D4	U23U318	D43	U43W2CA13A5	D22	U62U329	D44	UCB5R	D38
U21W4D3	D4	U23U320	D43	U43W2CA13M3	D22	U62W2A3A3	D33	UCB5R	D58
U21W4D9	D4	U23W2A5A9D3	D12	U43W2PGA3A3	D21	U62W2A3D3	D33	UCB5R	D60
U21W4D9A5	D4	U23W2CA13A5A9	D13	U43W2PGA5A9	D21	U62W2A5A9	D33	UCB5R	D61
U21W4E3	D5	U23W2CA13M3	D13	U43W2PRA3A3	D21	U62W2A5A9D9	D35	UCB5R	D62
U21W4E5	D5	U23W2LG5LB5LR9	D12	U43W2PRA5A9	D21	U62W2A5D9	D33	UCB5R	D64
U21W4E9	D5	U23W2PGA3A3	D12	U43W211	D41	U62W2CA13	D35	UCB5R	D66
U21W4H3	D8	U23W2PGA5A9	D12	U43W225	D41	U62W2PGA3	D34	UCB5R	D69
U21W4J1	D8	U23W2PGA5A9D9	D13	U61U101	D44	U62W2PGA3A3	D35	UCB9P	D58
U21W4LG5	D7	U23W2PGPRD9A5	D13	U61U127	D44	U62W2PGA5	D34	UCB9P	D60
U21W4LG5LR9	D7	U23W2PRA3A3	D12	U61U301	D44	U62W2PGA5A9	D35	UCB9P	D61
U21W4LR9	D7	U23W2PRA5A9	D12	U61U327	D44	U62W2PRA3	D34	UCB9P	D62
U21W4M3	D8	U23W4A5A9D3	D12	U61W2A3	D27	U62W2PRA3A3	D35	UCB9P	D64
U21W4N3	D8	U23W4CA13A5A9	D13	U61W2A3A3	D27	U62W2PRA5A9	D35	UCB9P	D66
U21W4PB	D6	U23W4CA13M3	D13	U61W2A5	D27	U62W2PRA9	D34	UCB9P	D69
U21W4PG	D6	U23W4LG5LB5LR9	D12	U61W2A5A9	D27	U62W4A3A3	D33	UCB9R	D15
U21W4PGPR	D7	U23W4PGA3A3	D12	U61W2A9	D27	U62W4A3D3	D33	UCB9R	D24
U21W4PR	D6	U23W4PGA5A9	D12	U61W2B3	D29	U62W4A5A9	D33	UCB9R	D38
U21W4PW	D6	U23W4PGA5A9D9	D13	U61W2C3	D28	U62W4A5A9D9	D35	UCB9R	D58
U21W4PY	D6	U23W4PGPRD9A5	D13	U61W2C9	D28	U62W4A5D9	D33	UCB9R	D60

Alphanumeric Index

UCB9R	D61	UIAN	D66	ULG0R	D66	ULPLA19	D37	ULPLJ04	D23
UCB9R	D62	UIAN	D81	ULPL	D14	ULPLA19	D81	ULPLJ04	D37
UCB9R	D64	UIAR	D14	ULPL	D23	ULPLA20	D14	ULPLJ04	D81
UCB9R	D66	UIAR	D23	ULPL	D37	ULPLA20	D23	ULPLJ05	D14
UCB9R	D69	UIAR	D37	ULPL	D81	ULPLA20	D37	ULPLJ05	D23
UD0P	D60	UIAR	D58	ULPLA01	D14	ULPLA20	D81	ULPLJ05	D37
UD0R	D60	UIAR	D66	ULPLA01	D23	ULPLA21	D14	ULPLJ05	D81
UE0P	D62	UIAR	D81	ULPLA01	D37	ULPLA21	D23	ULPLJ06	D14
UE0R	D62	UIAW	D14	ULPLA01	D81	ULPLA21	D37	ULPLJ06	D23
UF0P	D62	UIAW	D23	ULPLA02	D14	ULPLA21	D81	ULPLJ06	D37
UF0R	D62	UIAW	D37	ULPLA02	D23	ULPLA22	D14	ULPLJ06	D81
UG0P	D62	UIAW	D58	ULPLA02	D37	ULPLA22	D23	ULPLJ07	D14
UG0R	D62	UIAW	D66	ULPLA02	D81	ULPLA22	D37	ULPLJ07	D23
UH0P	D64	UIAW	D81	ULPLA03	D14	ULPLA22	D81	ULPLJ07	D37
UH0R	D64	UIAY	D14	ULPLA03	D23	ULPLA23	D14	ULPLJ07	D81
UIA01	D14	UIAY	D23	ULPLA03	D37	ULPLA23	D23	ULPLJ08	D14
UIA01	D23	UIAY	D37	ULPLA03	D81	ULPLA23	D37	ULPLJ08	D23
UIA01	D37	UIAY	D58	ULPLA04	D14	ULPLA23	D81	ULPLJ08	D37
UIA01	D58	UIAY	D66	ULPLA04	D23	ULPLA24	D14	ULPLJ08	D81
UIA01	D66	UIAY	D81	ULPLA04	D37	ULPLA24	D23	ULPLJ09	D14
UIA01	D81	UIL01	D14	ULPLA04	D81	ULPLA24	D37	ULPLJ09	D23
UIA02	D14	UIL01	D23	ULPLA05	D14	ULPLA24	D81	ULPLJ09	D37
UIA02	D23	UIL01	D37	ULPLA05	D23	ULPLA25	D14	ULPLJ09	D81
UIA02	D37	UIL01	D81	ULPLA05	D37	ULPLA25	D23	ULPS	D14
UIA02	D58	UIL02	D14	ULPLA05	D81	ULPLA25	D37	ULPS	D23
UIA02	D66	UIL02	D23	ULPLA06	D14	ULPLA25	D81	ULPS	D37
UIA02	D81	UIL02	D37	ULPLA06	D23	ULPLA26	D14	ULPS	D81
UIA03	D14	UIL02	D81	ULPLA06	D37	ULPLA26	D23	ULPSA01	D14
UIA03	D23	UIL03	D14	ULPLA06	D81	ULPLA26	D37	ULPSA01	D23
UIA03	D37	UIL03	D23	ULPLA07	D14	ULPLA26	D81	ULPSA01	D37
UIA03	D58	UIL03	D37	ULPLA07	D23	ULPLH01	D14	ULPSA01	D81
UIA03	D66	UIL03	D81	ULPLA07	D37	ULPLH01	D23	ULPSA02	D14
UIA03	D81	UIL04	D14	ULPLA07	D81	ULPLH01	D37	ULPSA02	D23
UIA04	D14	UIL04	D23	ULPLA08	D14	ULPLH01	D81	ULPSA02	D37
UIA04	D23	UIL04	D37	ULPLA08	D23	ULPLH02	D14	ULPSA02	D81
UIA04	D37	UIL04	D81	ULPLA08	D37	ULPLH02	D23	ULPSA03	D14
UIA04	D58	UIL05	D14	ULPLA08	D81	ULPLH02	D37	ULPSA03	D23
UIA04	D66	UIL05	D23	ULPLA09	D14	ULPLH02	D81	ULPSA03	D37
UIA04	D81	UIL05	D37	ULPLA09	D23	ULPLH03	D14	ULPSA03	D81
UIA05	D14	UIL05	D81	ULPLA09	D37	ULPLH03	D23	ULPSA04	D14
UIA05	D23	UIL06	D14	ULPLA09	D81	ULPLH03	D37	ULPSA04	D23
UIA05	D37	UIL06	D23	ULPLA10	D14	ULPLH03	D81	ULPSA04	D37
UIA05	D58	UIL06	D37	ULPLA10	D23	ULPLH04	D14	ULPSA04	D81
UIA05	D66	UIL06	D81	ULPLA10	D37	ULPLH04	D23	ULPSA05	D14
UIA05	D81	UIL07	D14	ULPLA10	D81	ULPLH04	D37	ULPSA05	D23
UIA06	D14	UIL07	D23	ULPLA11	D14	ULPLH04	D81	ULPSA05	D37
UIA06	D23	UIL07	D37	ULPLA11	D23	ULPLH05	D14	ULPSA05	D81
UIA06	D37	UIL07	D81	ULPLA11	D37	ULPLH05	D23	ULPSA06	D14
UIA06	D58	UIL08	D14	ULPLA11	D81	ULPLH05	D37	ULPSA06	D23
UIA06	D66	UIL08	D23	ULPLA12	D14	ULPLH05	D81	ULPSA06	D37
UIA06	D81	UIL08	D37	ULPLA12	D23	ULPLH06	D14	ULPSA06	D81
UIA07	D14	UIL08	D81	ULPLA12	D37	ULPLH06	D23	ULPSA07	D14
UIA07	D23	UILB	D14	ULPLA12	D81	ULPLH06	D37	ULPSA07	D23
UIA07	D37	UILB	D23	ULPLA13	D14	ULPLH06	D81	ULPSA07	D37
UIA07	D58	UILB	D37	ULPLA13	D23	ULPLH07	D14	ULPSA07	D81
UIA07	D66	UILB	D81	ULPLA13	D37	ULPLH07	D23	ULPSA08	D14
UIA07	D81	UILG	D14	ULPLA13	D81	ULPLH07	D37	ULPSA08	D23
UIA08	D14	UILG	D23	ULPLA14	D14	ULPLH07	D81	ULPSA08	D37
UIA08	D23	UILG	D37	ULPLA14	D23	ULPLH08	D14	ULPSA08	D81
UIA08	D37	UILG	D81	ULPLA14	D37	ULPLH08	D23	ULPSA09	D14
UIA08	D58	UILR	D14	ULPLA14	D81	ULPLH08	D37	ULPSA09	D23
UIA08	D66	UILR	D23	ULPLA15	D14	ULPLH08	D81	ULPSA09	D37
UIA08	D81	UILR	D37	ULPLA15	D23	ULPLH09	D14	ULPSA09	D81
UIAB	D14	UILR	D81	ULPLA15	D37	ULPLH09	D23	ULPSA10	D14
UIAB	D23	UILW	D14	ULPLA15	D81	ULPLH09	D37	ULPSA10	D23
UIAB	D37	UILW	D23	ULPLA16	D14	ULPLH09	D81	ULPSA10	D37
UIAB	D58	UILW	D37	ULPLA16	D23	ULPLJ01	D14	ULPSA10	D81
UIAB	D66	UILW	D81	ULPLA16	D37	ULPLJ01	D23	ULPSA11	D14
UIAB	D81	UILY	D14	ULPLA16	D81	ULPLJ01	D37	ULPSA11	D23
UIAG	D14	UILY	D23	ULPLA17	D14	ULPLJ01	D81	ULPSA11	D37
UIAG	D23	UILY	D37	ULPLA17	D23	ULPLJ02	D14	ULPSA11	D81
UIAG	D37	UILY	D81	ULPLA17	D37	ULPLJ02	D23	ULPSA12	D14
UIAG	D58	UJ0P	D64	ULPLA17	D81	ULPLJ02	D37	ULPSA12	D23
UIAG	D66	UJ0R	D64	ULPLA18	D14	ULPLJ02	D81	ULPSA12	D37
UIAG	D81	UK0P	D64	ULPLA18	D23	ULPLJ03	D14	ULPSA12	D81
UIAN	D14	UK0R	D64	ULPLA18	D37	ULPLJ03	D23	ULPSA13	D14
UIAN	D23	ULB0P	D66	ULPLA18	D81	ULPLJ03	D37	ULPSA13	D23
UIAN	D37	ULB0R	D66	ULPLA19	D14	ULPLJ03	D81	ULPSA13	D37
UIAN	D58	ULG0P	D66	ULPLA19	D23	ULPLJ04	D14	ULPSA13	D81

Alphanumeric Index

ULPSA14	D14	ULPSH07	D81	UPB0P	D68	UPR516PN5	B19	US16230027	D72
ULPSA14	D23	ULPSH08	D14	UPB0R	D68	UPR516PN7	B18	US16230027P	D71
ULPSA14	D37	ULPSH08	D23	UPBL	D68	UPR516PR6	B18	US16230027R	D71
ULPSA14	D81	ULPSH08	D37	UPBL	D68	UPR516RB9	B18	US16230028	D73
ULPSA15	D14	ULPSH08	D81	UPG0P	D68	UPR516RN5	B19	US16230029	D73
ULPSA15	D23	ULPSH09	D14	UPG0R	D68	UPR516RN7	B18	US16230030	D73
ULPSA15	D37	ULPSH09	D23	UPGL	D68	UPR516RR6	B18	US16230031	D73
ULPSA15	D81	ULPSH09	D37	UPGL	D68	UPR532PB9	B22	US16230032	D73
ULPSA16	D14	ULPSH09	D81	UPLD1S	D15	UPR532PN7	B22	US16230038	D73
ULPSA16	D23	ULPSJ01	D14	UPLD1S	D24	UPR532PR6	B22	US16230038P	D71
ULPSA16	D37	ULPSJ01	D23	UPLD1S	D38	UPR532RB9	B22	US16230038R	D71
ULPSA16	D81	ULPSJ01	D37	UPLD1S	D82	UPR532RN7	B22	US16230039	D73
ULPSA17	D14	ULPSJ01	D81	UPLD2S	D15	UPR532RR6	B22	US16230040	D73
ULPSA17	D23	ULPSJ02	D14	UPLD2S	D24	UPR563PN	B26	US16230041	D73
ULPSA17	D37	ULPSJ02	D23	UPLD2S	D38	UPR563PN1	B26	US16230042	D73
ULPSA17	D81	ULPSJ02	D37	UPLD2S	D82	UPR563PR	B26	US16230046	D73
ULPSA18	D14	ULPSJ02	D81	UPMA	D58	UPR563PR1	B26	US16230047	D73
ULPSA18	D23	ULPSJ03	D14	UPMA	D61	UPR563RN1U5	B26	US16230048	D73
ULPSA18	D37	ULPSJ03	D23	UPMA	D62	UPR563RNU5	B26	US16230048P	D71
ULPSA18	D81	ULPSJ03	D37	UPMA	D64	UPR563RR1U5	B26	US16230048R	D71
ULPSA19	D14	ULPSJ03	D81	UPMA	D66	UPR563RRU5	B26	US16230049	D73
ULPSA19	D23	ULPSJ04	D14	UPMA	D68	UPR563RRU5T	B27	US16230050	D73
ULPSA19	D37	ULPSJ04	D23	UPMA	D82	UPRD316PB	B33	US16230051	D73
ULPSA19	D81	ULPSJ04	D37	UPR0P	D68	UPRD316PP	B33	US16230052	D73
ULPSA20	D14	ULPSJ04	D81	UPR0R	D68	UPRD316PY	B33	US16230054	D73
ULPSA20	D23	ULPSJ05	D14	UPR316PB6	B18	UPRD316RB	B33	US16230055	D73
ULPSA20	D37	ULPSJ05	D23	UPR316PY4	B18	UPRD316RP	B33	US16230059	D73
ULPSA20	D81	ULPSJ05	D37	UPR316RB6	B18	UPRD316RY	B33	US16230068	D73
ULPSA21	D14	ULPSJ05	D81	UPR316RY4	B18	UPRD416PR	B33	US16230070	D73
ULPSA21	D23	ULPSJ06	D14	UPR332PB6	B22	UPRD416RR	B33	US16230071	D73
ULPSA21	D37	ULPSJ06	D23	UPR332PY4	B22	UPRD516PR	B33	US16230072	D73
ULPSA21	D81	ULPSJ06	D37	UPR332RB6	B22	UPRD516RR	B33	US16230075	D73
ULPSA22	D14	ULPSJ06	D81	UPR332RY4	B22	UPRL	D68	US16230076	D73
ULPSA22	D23	ULPSJ07	D14	UPR412PN	B30	UPRL	D68	US16230087	D73
ULPSA22	D37	ULPSJ07	D23	UPR412PN1	B30	UPWOP	D68	US16239002	D73
ULPSA22	D81	ULPSJ07	D37	UPR412PR	B30	UPWOR	D68	US16240044	D74
ULPSA23	D14	ULPSJ07	D81	UPR412PR1	B30	UPWL	D68	US16240057	D74
ULPSA23	D23	ULPSJ08	D14	UPR412RN1U6	B30	UPWL	D68	US16240058	D74
ULPSA23	D37	ULPSJ08	D23	UPR412RNU6	B30	UPY0P	D68	US16240062	D74
ULPSA23	D81	ULPSJ08	D37	UPR412RR1U6	B30	UPY0R	D68	US16240065	D74
ULPSA24	D14	ULPSJ08	D81	UPR412RRU5T	B31	UPYL	D68	US16240084	D74
ULPSA24	D23	ULPSJ09	D14	UPR412RRU6	B30	UPYL	D68	US16280036	D74
ULPSA24	D37	ULPSJ09	D23	UPR416PB9	B18	UR0P	D60	US16320122	D74
ULPSA24	D81	ULPSJ09	D37	UPR416PN5	B19	UR0R	D60	US16321153	D74
ULPSA25	D14	ULPSJ09	D81	UPR416PN7	B18	US16120056	D72	US16330136	D74
ULPSA25	D23	ULR0P	D66	UPR416PR6	B18	US16120061	D72	US16330138	D74
ULPSA25	D37	ULR0R	D66	UPR416RB9	B18	US16220002	D72	US16330138P	D71
ULPSA25	D81	ULW0P	D66	UPR416RN5	B19	US16220002P	D71	US16330138R	D71
ULPSA26	D14	ULW0R	D66	UPR416RN7	B18	US16220002R	D71	US16330144	D74
ULPSA26	D23	ULY0P	D66	UPR416RR6	B18	US16220003	D72	US16330145	D74
ULPSA26	D37	ULY0R	D66	UPR432PB9	B22	US16220004	D72	US16330161	D74
ULPSA26	D81	UM0P	D64	UPR432PN5	B22	US16220005	D72	US16330167	D74
ULPSH01	D14	UM0R	D64	UPR432PN7	B22	US16220007	D72	US16330199	D74
ULPSH01	D23	UN0P	D64	UPR432PR6	B22	US16220008	D72	US16331109	D74
ULPSH01	D37	UN0R	D64	UPR432RB9	B22	US16220009	D72	US16331112	D74
ULPSH01	D81	UNPB	D14	UPR432RN5	B22	US16220010	D72	US16331120	D74
ULPSH02	D14	UNPB	D23	UPR432RN7	B22	US16220011	D72	US16331142	D74
ULPSH02	D23	UNPB	D37	UPR432RR6	B22	US16220012	D72	US16331155	D74
ULPSH02	D37	UNPB	D81	UPR463PB	B26	US16220013	D72	US16331171	D74
ULPSH02	D81	UNPG	D14	UPR463PN	B26	US16220014	D72	US16331202	D74
ULPSH03	D14	UNPG	D23	UPR463PN1	B26	US16220015	D72	US16331209	D74
ULPSH03	D23	UNPG	D37	UPR463PR	B26	US16220016	D72	US16331210	D74
ULPSH03	D37	UNPG	D81	UPR463PR1	B26	US16220016P	D71	US16331230	D75
ULPSH03	D81	UNPN	D14	UPR463RBU5	B26	US16220016R	D71	US16340146	D75
ULPSH04	D14	UNPN	D23	UPR463RN1U5	B26	US16220017	D72	US16340168	D75
ULPSH04	D23	UNPN	D37	UPR463RNU5	B26	US16220018	D72	US16340178	D75
ULPSH04	D37	UNPN	D81	UPR463RR1U5	B26	US16220019	D72	US16340181	D75
ULPSH04	D81	UNPR	D14	UPR463RRU5	B26	US16220020	D72	US16340183	D75
ULPSH05	D14	UNPR	D23	UPR463RRU5T	B27	US16220021	D72	US16341119	D75
ULPSH05	D23	UNPR	D37	UPR512PN	B30	US16220043	D72	US16341145	D75
ULPSH05	D37	UNPR	D81	UPR512PN1	B30	US16220045	D72	US16341151	D75
ULPSH05	D81	UNPW	D14	UPR512PR	B30	US16220053	D72	US16420102	D75
ULPSH06	D14	UNPW	D23	UPR512PR1	B30	US16220073	D72	US16420102P	D71
ULPSH06	D23	UNPW	D37	UPR512RN1U6	B30	US16220074	D72	US16420102R	D71
ULPSH06	D37	UNPW	D81	UPR512RNU6	B30	US16230022	D72	US16420103	D75
ULPSH06	D81	UNPY	D14	UPR512RR1U6	B30	US16230023	D72	US16420104	D75
ULPSH07	D14	UNPY	D23	UPR512RRU5T	B31	US16230024	D72	US16420105	D75
ULPSH07	D23	UNPY	D37	UPR512RRU6	B30	US16230025	D72	US16420106	D75
ULPSH07	D37	UNPY	D81	UPR516PB9	B18	US16230026	D72	US16420106P	D71

Alphanumeric Index

US16420106R	D71	US16440143	D77	Z00650	A231
US16420107	D75	US16440147	D77	Z00651	A214
US16420116	D75	US16440148	D77	Z00651	A231
US16420134	D75	US16440150	D77	Z00962	A214
US16420135	D75	US16440151	D77	Z00965	A214
US16420137	D75	US16440155	D78	Z00966	A231
US16420152	D75	US16440156	D78		
US16420154	D75	US16440164	D78		
US16420173	D75	US16440171	D78		
US16421105	D75	US16440198	D78		
US16421122	D75	US16440608	D78		
US16421147	D75	US16440611	D78		
US16421162	D75	US16440614	D78		
US16421234	D75	US16441102	D78		
US16430111	D75	US16441114	D78		
US16430112	D75	US16441115	D78		
US16430113	D75	US16441124	D78		
US16430114	D75	US16441127	D78		
US16430118	D76	US16441128	D78		
US16430119	D76	US16441132	D78		
US16430119P	D71	US16441133	D78		
US16430119R	D71	US16441136	D78		
US16430120	D76	US16441139	D78		
US16430121	D76	US16441143	D78		
US16430127	D76	US16441144	D78		
US16430129	D76	US16441146	D78		
US16430131	D76	US16441154	D78		
US16430132	D76	US16441156	D78		
US16430133	D76	US16441163	D78		
US16430139	D76	US16441164	D78		
US16430140	D76	US16441168	D78		
US16430153	D76	US16441169	D79		
US16430157	D76	US16441180	D79		
US16430158	D76	US16441204	D79		
US16430159	D76	US16441205	D79		
US16430160	D76	US16441207	D79		
US16430162	D76	US16441211	D79		
US16430169	D76	US16441212	D79		
US16430170	D76	US16441219	D79		
US16430175	D76	US16441224	D79		
US16430176	D76	US16441229	D79		
US16430180	D76	US16451110	D79		
US16431103	D76	US16451235	D79		
US16431104	D76	USH	D71		
US16431106	D76	VPGL-DIFF	A12		
US16431108	D76	VPGL-DIFF	A41		
US16431111	D76	VPGL-DIFF	A60		
US16431113	D76	VPGL-DIFF	A80		
US16431116	D76	VPGL-DIFF	A95		
US16431125	D76	VPGL-DIFF	A119		
US16431129	D76	VPGL-DIFF	A143		
US16431134	D76	VPGL-DIFF	A167		
US16431138	D76	VPGL-DIFF	A180		
US16431159	D76	VPGL-GLASS	A12		
US16431165	D77	VPGL-GLASS	A41		
US16431166	D77	VPGL-GLASS	A60		
US16431167	D77	VPGL-GLASS	A80		
US16431172	D77	VPGL-GLASS	A95		
US16431173	D77	VPGL-GLASS	A119		
US16431174	D77	VPGL-GLASS	A143		
US16431176	D77	VPGL-GLASS	A167		
US16431178	D77	VPGL-GLASS	A180		
US16431179	D77	VPGLGLASSAM	A81		
US16431201	D77	VPGLGLASSAM	A168		
US16431203	D77	VPGLGLASSBL	A81		
US16431206	D77	VPGLGLASSBL	A168		
US16431208	D77	VPGLGLASSGR	A81		
US16431213	D77	VPGLGLASSGR	A168		
US16431215	D77	VPGLGLASSRE	A81		
US16431217	D77	VPGLGLASSRE	A168		
US16431220	D77	VPGL-LED	A12		
US16431222	D77	VPGL-LED	A41		
US16431225	D77	VPGL-LED	A60		
US16431226	D77	VPGL-LED	A80		
US16431232	D77	VPGL-LED	A119		
US16439001	D77	VPGL-LED	A143		
US16440110	D77	VPGL-LED	A167		
US16440123	D77	WMS1PT	A19		
US16440130	D77	Z00650	A214		

Page	Description	NEC	CEC	ATEX	IECEX	
A2	Mercmaster™ Connect LED Luminaires Plantweb Insight™ Connected Lighting Application	•	•	•	•	
A17	Wireless Motion Sensor Plantweb Insight™ Connected Lighting Application	•	•	•	•	
A20	Mercmaster™ LED Generation 3 Series Luminaires Standard or with Emergency Battery Backup	•	•	•	•	
A52	Mercmaster™ LED Generation 3 Series Zone 1 Luminaires	•	•	•	•	
A65	Mercmaster™ LED Low Profile Luminaires Standard or with Emergency Battery Backup	•	•	•	•	
A90	HB LED Multilens Bulkhead Luminaires	•	•	•	•	
A98	CLED Series LED Luminaires Standard or with Emergency Battery Backup			•	•	
A110	Industrial Mercmaster™ Connect LED Luminaires Plantweb Insight™ Connected Lighting Application	•	•		•	
A124	Industrial Mercmaster™ LED Generation 3 Series Luminaires Standard or with Emergency Battery Backup	•	•		•	
A153	Industrial Mercmaster™ LED Low Profile Luminaires Standard or with Emergency Battery Backup	•	•		•	
A176	Industrial HB LED Multilens Bulkhead Luminaires	•	•		•	
A183	ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires Standard or with Emergency Battery Backup			•	•	
A196	ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires Standard or with Emergency Battery Backup			•	•	
A208	ATX™ FELED Series Nonmetallic LED Luminaires Standard or with Emergency Battery Backup			•	•	
A219	ATX™ FDLED Series Luminaires Standard or with Emergency Battery Backup			•	•	
A226	ATX™ FNLED Series Nonmetallic LED Luminaires Standard or with Emergency Battery Backup			•	•	
A236	Baymaster™ and High Lumen LED Series Luminaires	•	•	•	•	
A260	Industrial Baymaster™ and High Lumen LED Series Luminaires	•	•		•	
A282	IHC LED Series Luminaires	•	•	•	•	
A295	Areamaster™ Generation 2 and High Lumen LED Series Luminaires	•	•	•	•	
A319	Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires	•	•	•	•	
A333	Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires	•	•		•	
A353	ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units			•	•	
A358	Signaling Labels			•	•	

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts may be present
 - Marine and wet locations
 - Suitability includes use where there may be simultaneous exposure to flammable gases and vapors or combustible dusts
- Typical applications include:
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- Integrated Hazardous Location Rated WirelessHART®[†] Sensor Module:
 - Passive Infrared Motion Sensing with field replaceable PIR Fresnel lens
 - Embedded illuminance sensor
 - Device health monitoring and alerts
 - Strengthens WirelessHART®[†] network with a line powered luminaire
- Adjustable LED Driver output:
 - User selectable maximum lumen output
 - Fully dimmable driver from 100% to 0%
- Integrated 0-10V Dimming Controller for group lighting control of up to 10 dimmable luminaires.
 - Dimming connection located inside top hat
- Commission within Emerson Plantweb Insight's Connected Lighting Application:
 - Asset Management
 - Map Based Commissioning
 - Programmable central or standalone control modes
- Field provisioning with either Emerson AMS Device Manager or Emerson AMS TREX handheld.
- Modular design provides thousands of combinations for maximum versatility.
- Design is suited for mounting heights ranging from 2 m up to 12 m (7 ft up to 40 ft).
- Three adjustable light outputs provide up to 17,500 lumens (5000K CCT, Type V light distribution, and clear glass globe).

Nominal Lumens ①	HID Equivalent	Model
Up to 5500	100-150W	MGCL5
Up to 9500	250-350W	MGCL9
Up to 17,500	400-600W	MGCH6

- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min).



MGCL



MGCH

- Customize to the application requirements with three different globe options: clear and diffused polycarbonate or clear glass.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III.
- Retrofit adapters for Crouse-Hinds™[‡], Mercmaster II[†], and Killark[✦] hoods available. See *Mounting Hood Adapters table*.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies installation.
- Rugged housing with superior thermal design translates to long luminaire life.
- Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
- Spring-loaded screw-type terminal block can accept UL/CSA 14 to 6 mm² (26-10 AWG) wire.
- HART® Service Port connection inside top hat.
- Standard 6 kV surge protection.
- Heavy duty, high temperature silicone gaskets.
- Photometric data and electronic drawings available upon request.
- Ambient Temperature (standard product): -40 °C to +65 °C (-40 °F to +149 °F).
- Standard NPT threads with M20 option.
- LED L70 reported at 76,000 hours.
- Field replaceable globes, LED driver, and PIR Fresnel Lens.

Warranty[Ⓞ]

- 10 year standard warranty.

Options

- Globe available, purchase separately
- Safety cable available, purchase separately.
- All Mercmaster Connect luminaires have provision for fusing; add suffix **-F** at the end of the catalog number.
- Drain is available to divert water existing in the conduit system, purchase separately.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Sensor housing: polycarbonate
- PIR Fresnel Lens: HDPE
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Globe guard and safety cable: stainless steel wire

① Nominal lumen value for 5000K, clear glass globe, Type V Wide optic. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

✦ Killark is a registered trademark of Hubbell Incorporated.

‡ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

† HART and WirelessHART are registered trademarks of the FieldComm Group.

Ⓞ For warranty details go to www.appleton.emerson.com.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEx: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

Standard Finishes

- Mounting hoods and bodies: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 844; UL 1598; UL 50E; UL 8750; UL 60079-0; UL 60079-7; UL 60079-31; UL 60079-11; UL 121201
- CSA Standard: C22.2 No. 0 - 10; C22.2 No. 94.2 - 15; C22.2 No. 137 18; C22.2 No. 213; C22.2 No. 250.0 - 18; C22.2 No. 250.13 -14; C22.2 No. 60529; C22.2 No. 60079-0:15; C22.2 No. 60079-7:2016; C22.2 No. 60079-31:2015; CAN/CSA C22.2 No. 60079-11-2014 (R2018); CSA E60598-1:16
- NEMA ANSI/IEC Standards: 60529
- cCSAus: 164460, Certificate Number: 80067296

ATEX/IECEx Certifications and Compliances (L9, H6)

- Certification Type: Mercmaster Connect LED
 - Gas: Zones 2
 - Conforming to ATEX 2014/34/EU: II 3 G
 - Type of Protection: Ex ec ia mb IIC T* Gc
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex ia tb IIIC T** Db; Ex ia tc IIIC T** Dc
- Ambient Temperature: -40 °C to +65 °C (-40 °F to +149 °F)
- ATEX Certificates: INERIS 22ATEX3007X, INERIS 22ATEX0020X
- IECEx Certificate: IECEx INE 22.0029X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 ① and IEC 62471: RG0 for all models

ABS Certification

- 23-2359512-PDA

Design Lights™ Consortium

- Check DLC QPL for current list of products.

Wireless Spectrum Approvals

- FCC ID: LW2-RM5801
- IC ID: 2731A-RM5801

Related Products

- Industrial Mercmaster Connect LED Luminaires
- Appleton Wireless Motion Sensor
- Emerson Plantweb Insight Connected Lighting Application
- Emerson 1410S WirelessHART Gateway
- Emerson 1410D WirelessHART Gateway

① Luminaire shall be positioned such that prolonged staring into luminaire at a distance closer than 5.5 m (18 ft) is not expected for RG0 and 3.73 m (12 ft) for RG1.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

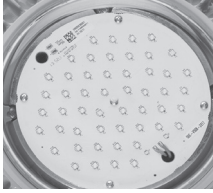
Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

Illustrated Features

Programmable Lumen Output



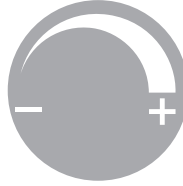
Program the nominal lumen value based on the mounting height.

L5 – 3500 or 5500 lumens

L9 – 7500, or 9500 lumens

H6 – 11500, 13500, or 17500 lumens

Dimming



Mercmaster Connect's LED Driver fully dims the light output from 100% down to 0% based on the active operating mode.

Maintenance Alerts



Internal sensors monitor the health and reliability of the Mercmaster Connect electronics and provide status updates over WirelessHART® 11.

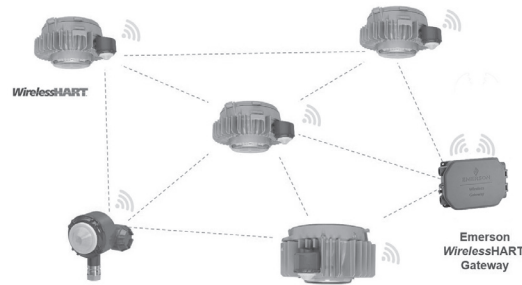
Standalone vs Central Controls



Standalone modes are available. Connected to a WirelessHART® 11 network or when by itself in remote locations.

Standalone Control Modes:

1. Motion Sensing
2. Lux Sensing
3. Motion + Lux Sensing
4. Daylight Harvesting



Using Plantweb Insight, central control modes operate across an assigned group of luminaires.

Central Control Modes:

1. Group Sensing Control - Control a group of luminaires together based on the state of the illuminance and motion sensors
2. Time Based Schedule - Schedule up to four time periods per day to turn on groups of luminaires based on the current network time
3. Always On- Set a group of light fixtures to a common light dimming level from 0 to 100%.

Plantweb Insight Connected Lighting Application



Enables critical system monitoring without adding another lighting control system. Commission lighting controls, monitor lighting performance, and review historical energy analytics.

Integrated Motion Sensor



Utilizing passive infrared detection (PIR), Mercmaster Connect can detect human sized objects from up to 40 ft away. Mercmaster Connect offers two PIR Fresnel lens factory options based on the mounting height to optimize the detection performance.

Robust and Reliable WirelessHart Protocol



Emerson's WirelessHART® 11 combines HART technology with wireless capabilities to create an adaptable wireless communications protocol for process automation applications. WirelessHART® 11 offers simple installation and robust, layered security to ensure network protection.

Failsafe Operating Mode



If the rare case of communication loss from a WirelessHART® 11 gateway, all Mercmaster Connect LED Luminaires on that gateway will revert to maximum brightness until communication is restored.

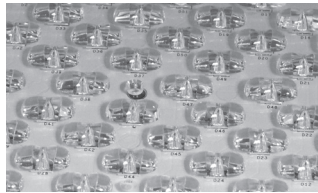
11 HART and WirelessHART are registered trademarks of the FieldComm Group.

Mercmaster™ Connect LED Luminaires

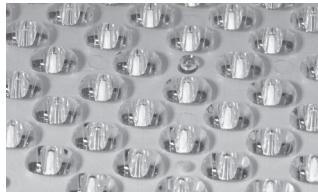
Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified

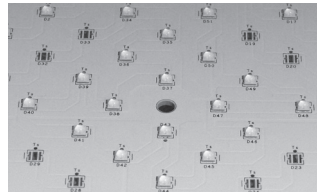
Illustrated Features



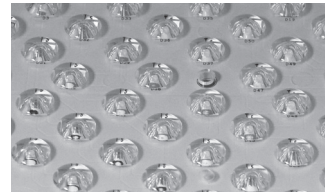
Type I - Long and narrow distribution pattern designed with walkways in mind.



Type III - Wall mounted distribution pattern designed where you need good forward light projection.



Type V - Symmetrical circle distribution pattern ideal when you need even coverage in all directions.



Type V Wide - Like the Type V distribution pattern with more vertical lumens designed to help spread the light quicker and more outwards.

Choose from **three color temperatures (CCT)**: 3000K, 4000K, and 5000K ±

Four light distribution patterns: Type I, Type III, Type V and Type V Wide for application flexibility.

Seven mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.

Four globes: clear and diffused polycarbonate, clear glass globe, and prismatic refractor provide just the right level of diffusion.

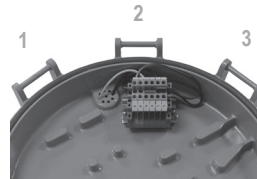
Safety Features



Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.



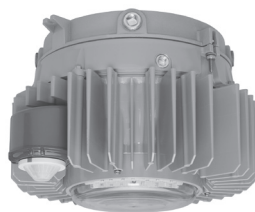
Type I and Type III Hinge System



Type I and Type III light distribution patterns use a multiple hinged housing design which allows you to correctly line up the beam pattern in your desired direction. By using one of the three available hinges you can position the fixture for optimal light output.

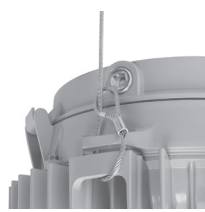


Designed for the Environment



Driver housing design incorporates separate sections for the terminal block and driver. The efficient thermal design ensures reliable heat transfer from the LED assembly out via the heatsink and the cast, epoxy powder coat, aluminum housing.

Safety Cable



Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

Watertight Pendant Hood



Watertight pendant hood provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.

Integrated 0-10V Dimming Controller for Group Lighting Control



Mercmaster Connect



Mercmaster LED Low Profile with Dimming Option

Mercmaster Connect can control the lighting intensity of a group of dimmable wired LED luminaires with its integrated 0-10V dimming controller. Mercmaster Connect's dimming output voltage matches its internal lighting level to raise and lower the lighting level of daisy chained dimmable wired LED luminaires. On a single electrical circuit, wire up to 10 standard dimmable luminaires over an up to 60 m (200 ft) total cable run. Compatible with 0-10V and 1-10V dimmable LED luminaires.

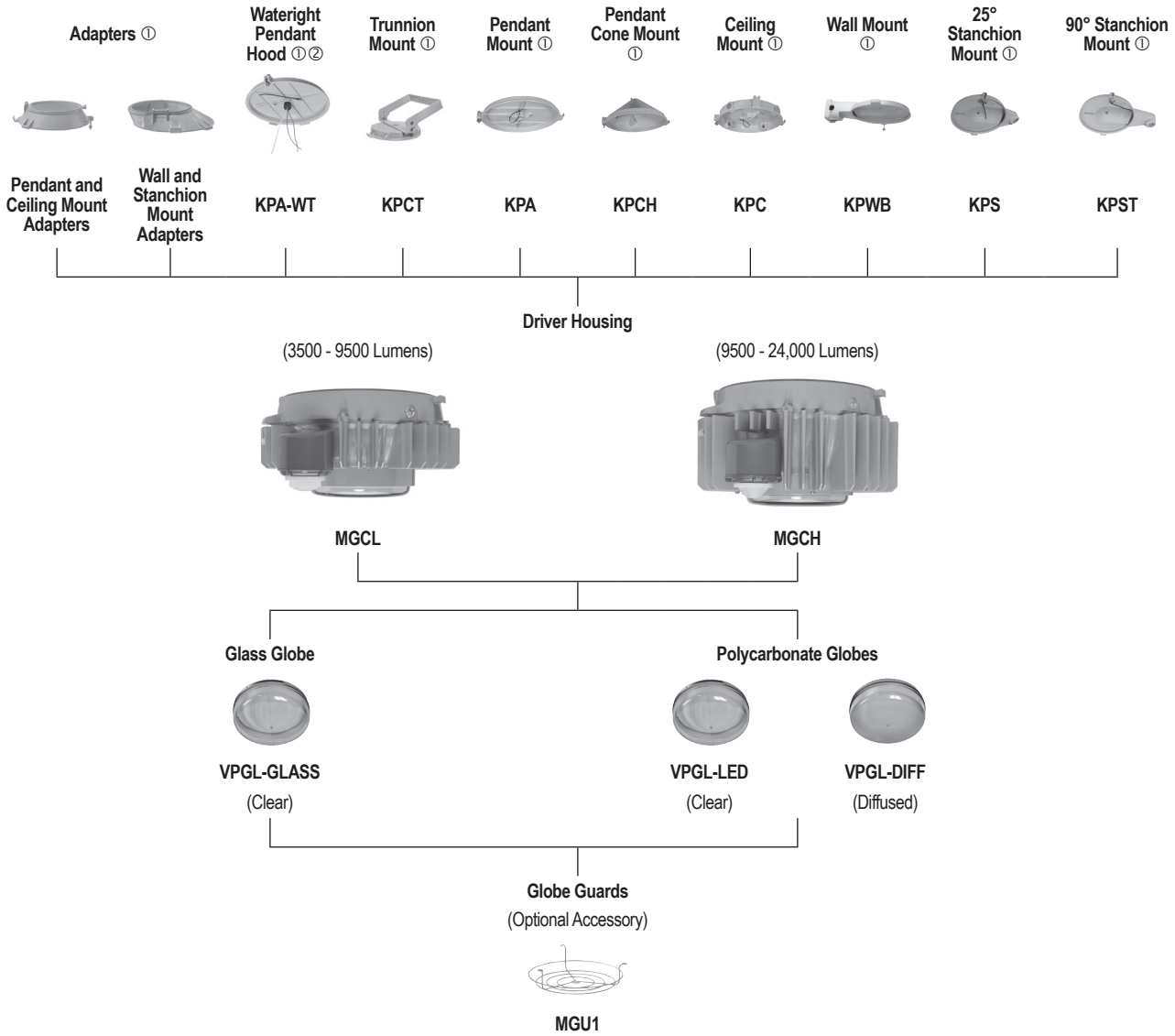
± Other CCT options available upon request. Contact your local sales representative for more information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
 Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |
 Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 ATEX/IECEX: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified

Family Tree — Mercmaster™ Connect LED Luminaires



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEx: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified

Order Using Catalog Numbering Guide — Mercmaster™ Connect LED Hazardous Location Luminaires

MGC	A	L5	2	N	D	5	BU	E	Z	N
Series Prefix: MGC - Mercmaster Connect LED Class 1, Division 2 and Zone 2	Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling ② D - Pendant Cone ② R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ ◇ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ † Adapter, Ceiling or Pendant ▲ Y - Crouse Hinds™ Adapter, Stanchion or Wall ▲ Blank - No mounting hood	Lumen (nominal): L5 - Up to 5,500 L9 - Up to 9,500 H6 - Up to 17,500	Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 Blank - If using adapter or no hood	Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K M - Mid Neutral, 4500K W - Warm, 3000K R - Mid-Warm, 3500K (retail)	Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe	Light Distribution Pattern: 1 - Type I 3 - Type III 5 - Type V W - Type V Wide	Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc	Options: ⌘ F - Fusing Blank - No fusing	Control Options: 7 - Motion and Illuminance Sensor, WirelessHart™ †† Interface	PIR Fresnel Lens: N - Between 20 to 40 ft mounting height P - Below 20 ft mounting height

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

② Only allowed for Type V and Type V Wide light distribution.

⌘ Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters, watertight pendant hood and BH Voltage only certified for NEC/CEC.

◇ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

†† HART and WirelessHART are registered trademarks of the FieldComm Group.

Note: For other lighting combinations, please contact your local Appleton representative for more information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) ①②

Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Efficacy Output (lm/W)		Lumen Efficacy CCT		Lumen Efficacy CRI		Lumen Efficacy CCT		Lumen Efficacy CRI		Lumen Efficacy CCT		Lumen Efficacy CRI					
			CCT	CRI	CCT	CRI	CCT	CRI	CCT	CRI	CCT	CRI	CCT	CRI	CCT	CRI				
Clear Polycarbonate Globe — Model MGCL5 — 100-150W HID Equivalency																				
Type-I	3000K	80	4400	92	3500K	80	4500	93	4000K	80	4580	95	4500K	80	4750	99	5000K	70	4900	102
Type-III	3000K	80	4620	96	3500K	80	4700	98	4000K	80	4800	100	4500K	80	4990	104	5000K	70	5140	107
Type-V	3000K	80	4770	99	3500K	80	4860	101	4000K	80	4960	103	4500K	80	5150	107	5000K	70	5300	110
Type-V Wide	3000K	80	4520	94	3500K	80	4600	96	4000K	80	4700	98	4500K	80	4870	101	5000K	70	5020	105
Clear Polycarbonate Globe — Model MGCL9 — 250-350W HID Equivalency																				
Type-I	3000K	80	7860	100	3500K	80	8060	103	4000K	80	8170	104	4500K	80	8400	107	5000K	70	9300	119
Type-III	3000K	80	8250	105	3500K	80	8460	108	4000K	80	8570	109	4500K	80	8800	112	5000K	70	9750	125
Type-V	3000K	80	8430	108	3500K	80	8650	111	4000K	80	8770	112	4500K	80	9010	115	5000K	70	9970	127
Type-V Wide	3000K	80	8120	104	3500K	80	8330	106	4000K	80	8450	108	4500K	80	8670	111	5000K	70	9600	123
Clear Polycarbonate Globe — Model MGCH6 — 400-600W HID Equivalency																				
Type-I	3000K	80	13600	93	3500K	80	13900	95	4000K	80	14100	97	4500K	80	14470	99	5000K	70	16100	110
Type-III	3000K	80	14200	97	3500K	80	14500	100	4000K	80	14700	101	4500K	80	15100	104	5000K	70	16800	115
Type-V	3000K	80	15200	104	3500K	80	15600	107	4000K	80	15800	108	4500K	80	16200	111	5000K	70	18000	124
Type-V Wide	3000K	80	13940	95	3500K	80	14270	98	4000K	80	14450	99	4500K	80	14850	102	5000K	70	16500	113
Diffused Polycarbonate Globe — Model MGCL5 — 100-150W HID Equivalency																				
Type-I	3000K	80	4180	87	3500K	80	4260	88	4000K	80	4350	90	4500K	80	4510	94	5000K	70	4650	97
Type-III	3000K	80	4400	91	3500K	80	4480	93	4000K	80	4570	95	4500K	80	4740	98	5000K	70	4890	102
Type-V	3000K	80	4660	97	3500K	80	4750	99	4000K	80	4850	101	4500K	80	5030	105	5000K	70	5180	108
Type-V Wide	3000K	80	4310	90	3500K	80	4390	91	4000K	80	4480	93	4500K	80	4650	97	5000K	70	4790	100
Diffused Polycarbonate Globe — Model MGCL9 — 250-350W HID Equivalency																				
Type-I	3000K	80	7470	96	3500K	80	7660	98	4000K	80	7770	99	4500K	80	7980	102	5000K	70	8830	113
Type-III	3000K	80	7820	100	3500K	80	8030	102	4000K	80	8140	104	4500K	80	8360	107	5000K	70	9250	118
Type-V	3000K	80	8200	105	3500K	80	8400	107	4000K	80	8520	109	4500K	80	8750	112	5000K	70	9680	124
Type-V Wide	3000K	80	7740	99	3500K	80	7940	101	4000K	80	8050	103	4500K	80	8270	106	5000K	70	9140	117
Diffused Polycarbonate Globe — Model MGCH6 — 400-600W HID Equivalency																				
Type-I	3000K	80	12870	88	3500K	80	13170	90	4000K	80	13340	92	4500K	80	13700	94	5000K	70	15230	105
Type-III	3000K	80	13430	92	3500K	80	13740	94	4000K	80	13900	96	4500K	80	14300	98	5000K	70	15900	109
Type-V	3000K	80	14670	100	3500K	80	15010	103	4000K	80	15200	104	4500K	80	15620	107	5000K	70	17360	119
Type-V Wide	3000K	80	13220	91	3500K	80	13530	93	4000K	80	13700	94	4500K	80	14100	97	5000K	70	15640	107

① All lumen values are typical (tolerance +/-10%).

② Diffused polycarbonate globe can be used with Type I, III and V wide. Refer to photometric files for lumen output information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) ①②

Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Efficacy Output (lm/W)		Lumen Efficacy CCT		Lumen Efficacy CRI		Lumen Efficacy CCT		Lumen Efficacy CRI		Lumen Efficacy CCT		Lumen Efficacy CRI					
			Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)	CCT	Output (lm/W)			
Clear Glass Globe — Model MGCL5 — 100-150W HID Equivalency																				
Type-I	3000K	80	4610	96	3500K	80	4700	98	4000K	80	4800	100	4500K	80	4980	103	5000K	70	5130	107
Type-III	3000K	80	4850	101	3500K	80	4940	103	4000K	80	5040	105	4500K	80	5230	109	5000K	70	5400	112
Type-V	3000K	80	4970	104	3500K	80	5060	106	4000K	80	5170	108	4500K	80	5360	112	5000K	70	5530	115
Type-V Wide	3000K	80	4730	98	3500K	80	4820	100	4000K	80	4920	102	4500K	80	5100	106	5000K	70	5260	109
Clear Glass Globe — Model MGCL9 — 250-350W HID Equivalency																				
Type-I	3000K	80	8220	105	3500K	80	8430	108	4000K	80	8550	109	4500K	80	8780	112	5000K	70	9710	124
Type-III	3000K	80	8630	110	3500K	80	8850	113	4000K	80	8980	115	4500K	80	9220	118	5000K	70	10200	131
Type-V	3000K	80	8800	112	3500K	80	9030	116	4000K	80	9150	117	4500K	80	9400	120	5000K	70	10400	133
Type-V Wide	3000K	80	8480	108	3500K	80	8700	111	4000K	80	8820	113	4500K	80	9060	116	5000K	70	10020	128
Clear Glass Globe — Model MGCH6 — 400-600W HID Equivalency																				
Type-I	3000K	80	14230	98	3500K	80	14570	100	4000K	80	14750	101	4500K	80	15160	104	5000K	70	16800	115
Type-III	3000K	80	14900	102	3500K	80	15250	105	4000K	80	15450	106	4500K	80	15870	109	5000K	70	17640	121
Type-V	3000K	80	15940	109	3500K	80	16320	112	4000K	80	16530	113	4500K	80	16980	116	5000K	70	18870	129
Type-V Wide	3000K	80	14600	100	3500K	80	14950	102	4000K	80	15150	104	4500K	80	15560	107	5000K	70	17300	118

Electrical Specifications ③

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
MGCL5	120 Vac	46	0.39	>0.9	< 20%
	277 Vac	46	0.17		
	170 Vdc	46	0.27	N/A	N/A
MGCL9	120 Vac	75	0.64	>0.9	< 20%
	277 Vac	75	0.29		
	170 Vdc	75	0.45	N/A	N/A
MGCH6	120 Vac	145	1.24	>0.9	< 20%
	277 Vac	145	0.54		
	170 Vdc	145	0.86	N/A	N/A

① All lumen values are typical (tolerance +/-10%).

② Diffused polycarbonate globe can be used with Type I, III and V wide. Refer to photometric files for lumen output information.

③ All values are typical (tolerance +/-10%). Rated Input current corresponds to light intensity set at 100% brightness.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEx: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified

NEC/CEC Temperature Codes ①

Model ①	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	Class I, Division 2 Groups A, B, C, D	Class II, Division 2 Groups F, G	Class I, Division 2 and Class II, Division 2
MGCL5	+40 (+104)		T5	T6	T5
	+55 (+131)	+90 (+194)	T4	T5	T4
	+65 (+149)		T4	T5	T4
MGCL9	+40 (+104)		T5	T6	T5
	+55 (+131)	+90 (+194)	T4	T5	T4
	+65 (+149)		T4	T5	T4
MGCH6	+40 (+104)		T4	T6	T4
	+55 (+131)	+90 (+194)	T3C	T5	T3C
	+65 (+149)		T3C	T5	T3C

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ②③

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

ATEX/IECEx Temperature Codes

Model	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	T-Code for Zone 2	T-Code for Zone 21/22
MGCL9	+40 (+104)		T5	T60 °C
	+55 (+131)	+90 (+194)	T4	T75 °C
	+65 (+149)		T4	T85 °C
MGCH6	+40 (+104)		T4	T80 °C
	+55 (+131)	+90 (+194)	T3	T95 °C
	+65 (+149)		T3	T105 °C

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).









② T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

③ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |
Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified







Mounting Hoods			
	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT		KPA-75
	1" NPT	1.0 (2.3)	KPA-100
	M20		KPA-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			
	3/4" NPT		KPA-75-WT
	1" NPT	1.1 (2.4)	KPA-100-WT
	M20		KPA-WT-M20
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT		KPCH-75
	1" NPT	1.1 (2.5)	KPCH-100
	M20		KPCH-M20
Trunnion — Five Hubs, Four Close-Up Plugs			
	3/4" NPT		KPCT-75
	1" NPT	6.1 (13.4)	KPCT-100
	M20		KPCT-M20
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT		KPC-75
	1" NPT	1.4 (3.0)	KPC-100
	M20		KPC-M20
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT		KPWB-75
	1" NPT	1.8 (4.0)	KPWB-100
	M20		KPWB-M20
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Mercmaster™ Connect LED Luminaires




Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard			
	Globe Guard	0.2 (0.4)	MGU1
Safety Cable			
	Stainless steel	0.2 (0.4)	LEDSC
Drain Plug			
	76 mm (3") long, 1/2" NPT trade size drain assembly used to divert water existing in the conduit system	0.4 (0.9)	LEDDR3

Mounting Hood Adapters ①

	Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ® +	Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
	Appleton™ Mercmaster™ II	Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
	Crouse-Hinds™ Champ® +	Wall: TWM2/3 25° Angle Stanchion: JM5 90° Straight Stanchion: PM5	0.9 (2.00)	MMADCHVA
	Appleton™ Mercmaster™ II	Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
	Killark™ ✧	Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

Luminaire Specifications

Model	Lumen Outputs	Weight in kg (lbs)
MGCL5	5500	11.1 (24.4)
MGCL9	9500	11.1 (24.4)
MGCH6	17,500	13.6 (29.9)

① Adapters are cCSAus rated only.

✧ Killark is a registered trademark of Hubbell Incorporated.

+ Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Mercmaster™ Connect LED Luminaires

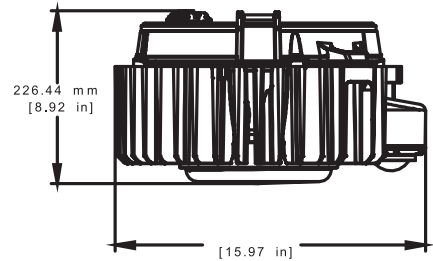
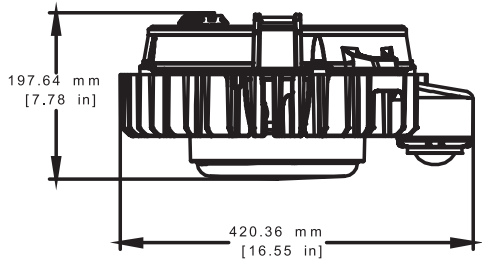
Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |
Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified

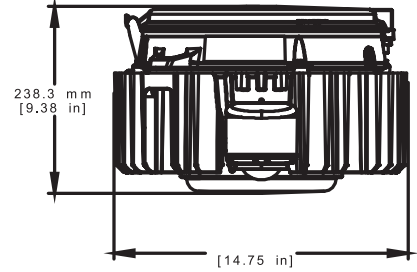
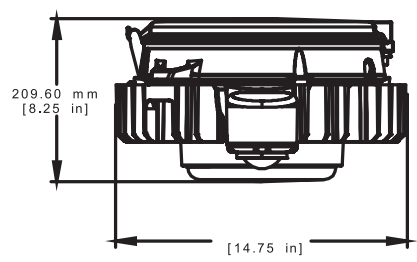
Dimensional Drawings — Driver Housing with Globe

MGCL	MGCH
------	------

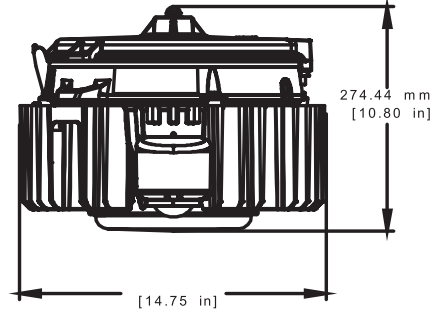
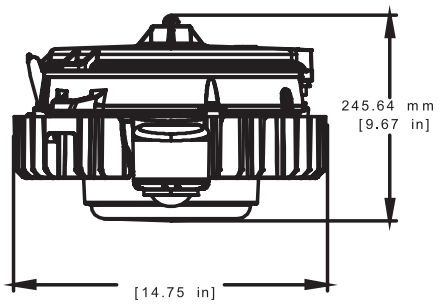
Driver Housing



Pendant



Watertight Pendant



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |

Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

ATEX/IECEX: Zones 2 – 21 and 22

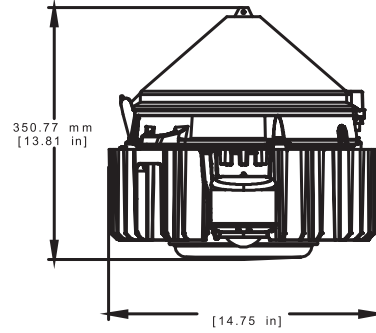
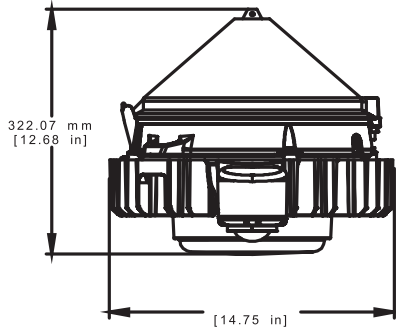
Notable: American Bureau of Shipping (ABS) Certified

Dimensional Drawings — Driver Housing with Globe

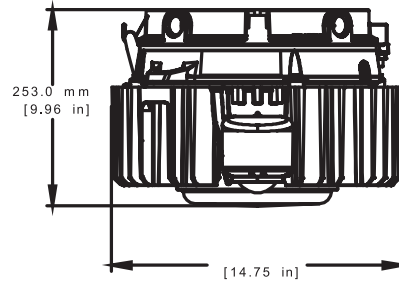
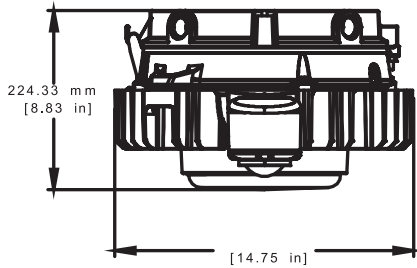
MGCL

MGCH

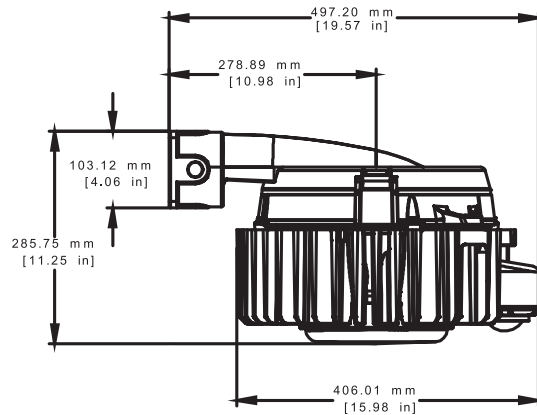
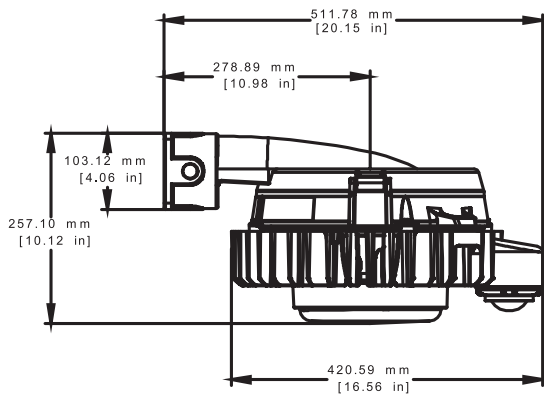
Pendant Cone



Ceiling



Wall Mount



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Hazardous Locations

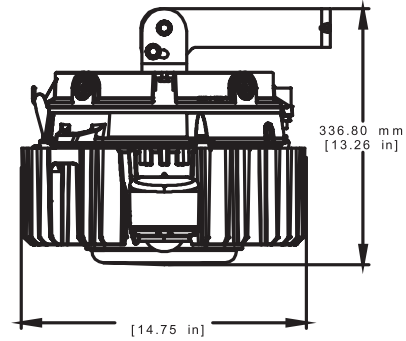
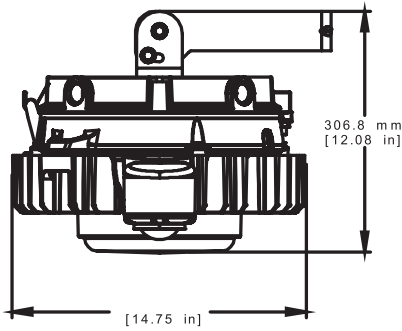
NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |
Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified

Dimensional Drawings — Driver Housing with Globe

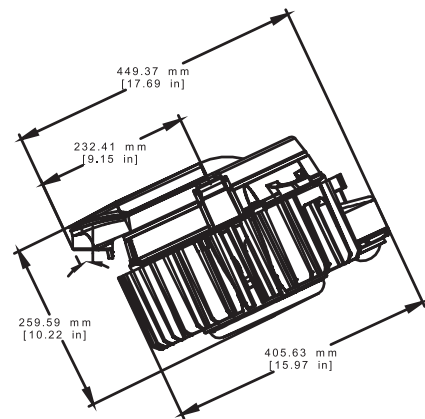
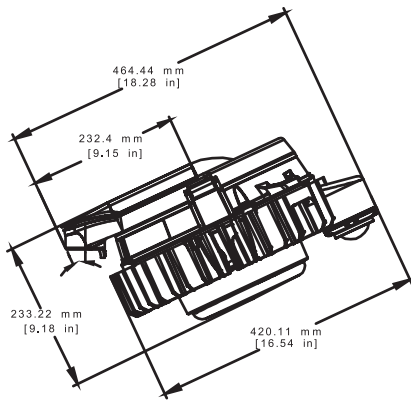
MGCL

MGCH

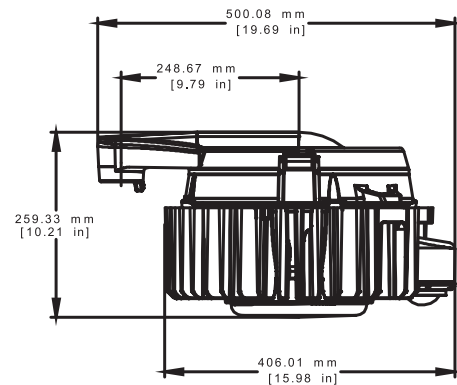
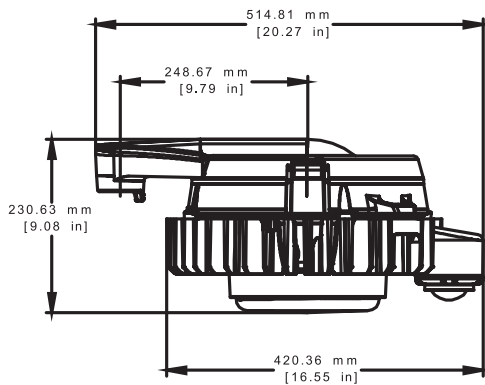
Trunnion Mount



25° Stanchion Mount



90° Stanchion Mount



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
 Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class III | Class I, Zone 2 IIC | Class II Zone 20 | Type 3R, 4, 4X | IP66 | Simultaneous Exposure |
 Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 ATEX/IECEX: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified

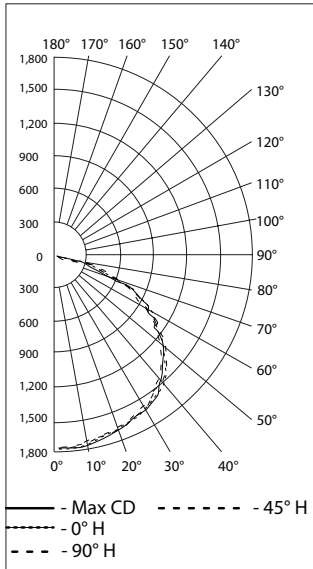
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: MGCL5CP5

Luminaire Lumens 5,660

POLAR CANDELA DISTRIBUTION

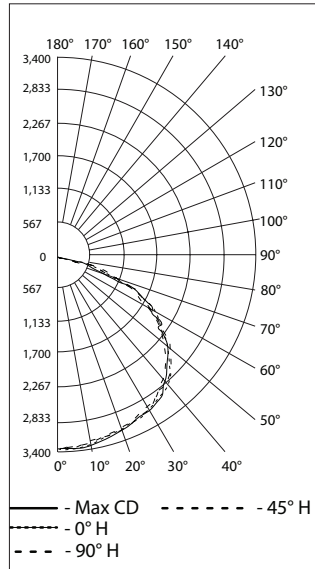


Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: MGCL9CP5

Luminaire Lumens 10,845

POLAR CANDELA DISTRIBUTION

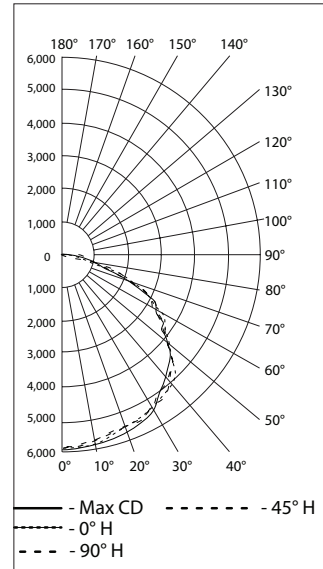


Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: MGCH6CP5

Luminaire Lumens 19,107

POLAR CANDELA DISTRIBUTION



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Wireless Motion Sensor

Plantweb Insight™ Connected Lighting Application

Compatible with Mercmaster™ Connect LED Luminaires

NEC/CEC: Class I, Division 1, Groups A, B, C, D | Class I, Zone 0 AEx ia IIC | Ex ia IIC | Type 3R, 4, 4X | IP66 | Suitable for Use in Wet Locations
ATEX/IECEX: Zone 0

Applications

- Intrinsically safe and battery powered WirelessHART motion Sensor suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors may be present
 - Suitability includes use where there may be simultaneous exposure to flammable gases and vapors
- Typical applications include:
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Other areas where water and dirt are a problem

Features

- Extends motion sensor coverage around obstacles for Emerson's Connected lighting ecosystem
- Intrinsically safe WirelessHART® Motion Sensor
 - Passive Infrared Motion Sensing with field replaceable PIR Fresnel lens
 - Embedded illuminance sensor
 - Device health monitoring and alerts
- SmartPower™ module (sold separately) provides up to 5 year maintenance-free operation and field replacement without transmitter removal
- Commission within Emerson Plantweb Insight's Connected Lighting Application
 - Asset Management
 - Map Based Commissioning
 - Motion sensor interacts with central control modes
- Field setup with either Emerson AMS Device Manager or Emerson TREX handheld
- Mounting bracket (sold separately) eases installation without the cost of wiring
- Design is suited for detection distances up to 5 m (20 ft).
- Internal antenna design
- Ambient Temperature (standard product): -40 °C to +65 °C (-40 °F to +149 °F)

Warranty [⊗]

- 5 year standard warranty.

Standard Materials

- Housing: Valox and polycarbonate
- Lens: HDPE
- Gaskets: silicone and polyurethane foam

NEC/CEC Certifications and Compliances

- UL Standard: UL 913; UL 60079-0; UL 60079-11; UL 50e
- CSA Standard: C22.2 No. 0 - 10; C22.2 No. 94.2 - 15; C22.2 No. 60529; C22.2 No. 60079-0:19; C22.2 No. 60079-11:18
- NEMA ANSI/IEC Standards: 60529
- cCSAus: 164460, Certificate Number: 80048037



WMS

ATEX/IECEX Certifications and Compliances

- Certification Type: Wireless Motion Sensor
 - Gas: Zones 0
 - Conforming to ATEX 2014/34/EU: II 1 G
 - Type of Protection: Ex ia IIC T* Ga
 - Temperature Class: T5 to T4
- Ambient Temperature: -40 °C up to +65 °C (-40 °F up to +149 °F)
- ATEX Certificate: INERIS 21ATEX0005X
- IECEX Certificate: IECEX INE 21.0008X
- Index of Protection according EN/IEC 60529: IP66

Related Products

- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires
- Emerson Plantweb Insight Connected Lighting Application
- Emerson 1410S WirelessHART Gateway
- Emerson 1410D WirelessHART Gateway

⊗ For warranty details go to www.appleton.emerson.com.

Wireless Motion Sensor

Plantweb Insight™ Connected Lighting Application
Compatible with Mercmaster™ Connect LED Luminaires

NEC/CEC: Class I, Division 1, Groups A, B, C, D | Class I, Zone 0 AEx ia IIC | Ex ia IIC | Type 3R, 4, 4X | IP66 | Suitable for Use in Wet Locations
ATEX/IECEX: Zone 0

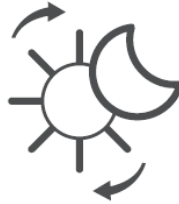
Illustrated Features

Passive Infrared Motion Detection



Utilizing passive infrared detection (PIR), the Appleton Wireless Motion Sensor can detect human sized objects from up to 20 ft away. Install the wireless motion sensor in locations where connected lighting motion sensors are obstructed.

Illuminance Sensor



Measures the average light level in lux.

Ambient Temperature Sensing



Monitor the ambient temperature in the installed location.

Plantweb Insight Connected Lighting Application



v

Enables critical system monitoring without adding another lighting control system. The Appleton Wireless Motion Sensor provides auxiliary motion sensor coverage in a connected lighting installation to ensure no operators are left in the dark

Field Replaceable Battery



SmartPower™ module provides up to 5 year maintenance-free operation and field replacement without transmitter removal

Robust and Reliable WirelessHART Protocol

WirelessHART

WirelessHART combines HART technology with wireless capabilities to create an adaptable wireless communications protocol for process automation applications. WirelessHART offers simple installation and robust, layered security to ensure network protection.

⌘ HART and WirelessHART are registered trademarks of the FieldComm Group.


■ SmartPower is a registered trademark of Rosemount Inc.

Note: For other lighting combinations, contact your local Appleton Sales Representative for more information.



Wireless Motion Sensor

Plantweb Insight™ Connected Lighting Application
Compatible with Mercmaster™ Connect LED Luminaires

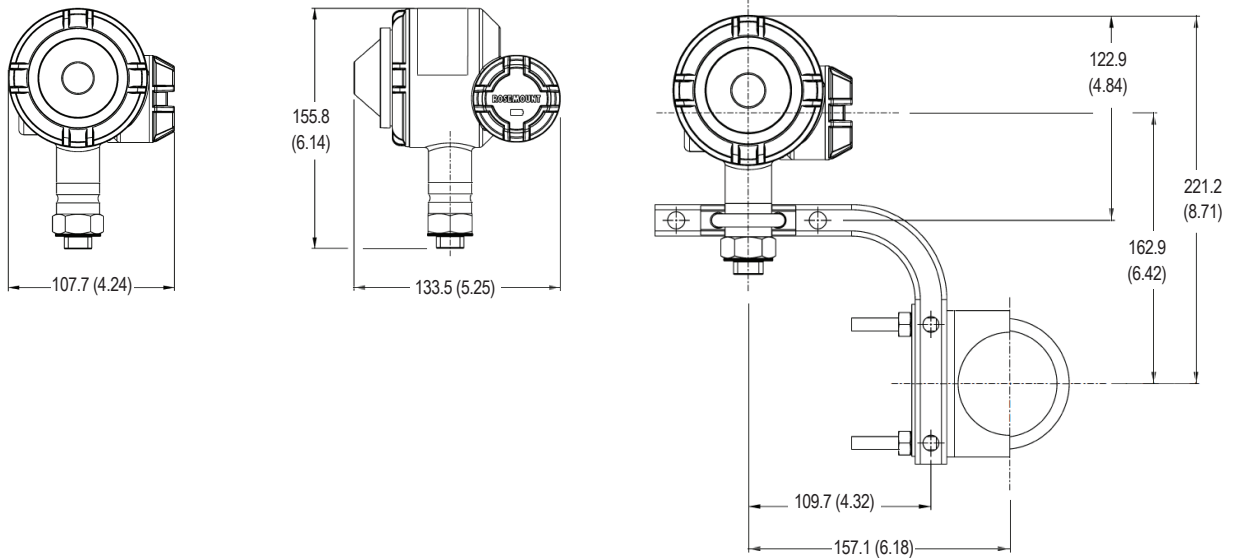
NEC/CEC: Class I, Division 1, Groups A, B, C, D | Class I, Zone 0 AEx ia IIC | Ex ia IIC | Type 3R, 4, 4X | IP66 | Suitable for Use in Wet Locations
ATEX/IECEX: Zone 0

	Length m (ft)	Weight in kg (lb)	Catalog Number
	Wireless Motion Sensor	0.46 (1.01)	WMS1PT

Accessories and Replacement Parts

	Rosemount™ ▫ Mounting Bracket for Rosemount 248	0.58 (1.29)	00249-2612-0001
	Emerson 701P SmartPower™ ▫ Module Replacement Battery	0.15 (0.34)	701PGNKF

Dimensions in Millimeters (Inches)



▫ SmartPower and Rosemount are registered trademarks of Rosemount Inc.

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts may be present
 - Marine and wet locations
 - Suitability includes use where there may be simultaneous exposure to flammable gases and vapors or combustible dusts
- Typical applications include:
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- All Models:
 - Modular design provides thousands of combinations for maximum versatility.
 - Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
 - Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
 - Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III.
 - Watertight Pendant Hood with IP68 cord grip available to address water ingress into luminaire via conduit.
 - Retrofit adapters for Crouse-Hinds™ †, Mercmaster II, and Killark™ ‡ hoods available. See *Mounting Hood Adapters table*.
 - Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies installation.
 - Rugged housing with superior thermal design translates to long luminaire life.
 - Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
 - Spring-loaded screw-type terminal block can accept UL/CSA .14 to 6 mm² (26-10 AWG) wire.
 - Heavy duty, high temperature silicone gaskets.
 - Photometric data and electronic drawings available upon request.
 - Standard NPT threads with M20 option.
 - LED L70 reported at 76,000 hours.
 - Field replaceable globes and LED driver.
- Standard Model — NEC/CEC, ATEX/IECEx Certified:
 - Design is suited for mounting heights ranging from 2 m up to 15 m (7 ft up to 50 ft).
 - Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min).
 - Ambient Temperature (standard product): -40 °C to +65 °C (-40 °F to +149 °F). Higher ambient options available (up to 75 °C [167 °F]) on select configurations. See Temperature Code table for details.



MLGL



MLGH/MLGX

- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA available.
- Nine light outputs provide up to 26,000 lumens.

Nominal Lumens ①	HID Equivalent	Model
3500	70-100W	MLGL3
5500	100-150W	MLGL5
7500	175-250W	MLGL7
9500	250-350W	MLGL9/ MLGH9
11,500	350-400W	MLGH1
14,500	400W	MLGH3
17,500	400-600W	MLGH6
20,000	600-750W	MLGX1
24,000	1000W	MLGX5

- Emergency Battery Backup Model — NEC/CEC Certified:
 - Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
 - Customize to the application requirements with three different globe options: clear polycarbonate, diffused polycarbonate, and clear glass.
 - Standard 6 kV/3 kA surge protection.
 - Provides up to 1400 lumens illumination for 90 minutes of emergency lighting with clear lens or 800 lumens illumination for 180 minutes of emergency lighting.

Standard Mode		Emergency Mode	
Nominal Lumens ①	HID Equivalent	Nominal Lumens ①	Model
3500	70-100W	1450	MLGL3*H
		800	MLGL3*E
5500	100-150W	1450	MLGL5*H
		800	MLGL5*E

- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lights indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow maintenance in hazardous locations.
- Suitable for mounting heights up to 4.27 meters (14 feet).
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- Field replaceable battery management module (BMM) and battery pack.

Warranty ☺

- 10 year standard warranty.

① Nominal lumen value for 5000K, clear glass globe, Type V Wide optic. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

‡ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

☺ For warranty details go to www.appleton.emerson.com.

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Options

- All Models:
 - Globe guard available, *purchase separately*.
 - Safety cable available, *purchase separately*.
 - Drain is available to divert water existing in the conduit system, *purchase separately*.
- Standard Model:
 - Refractor guard available, *purchase separately*
 - Optional provision for fusing; add suffix **-F** at the end of the catalog number.
 - Optional 10 kV surge protection. Add suffix **-S** at the end of the catalog number.
 - Some lumen output standard luminaires offer High Ambient temperature option up to 70 °C or 75 °C (158 °F or 167 °F). See Catalog Numbering Guide for specifics.
 - Photocontrols are available and are configured to your operating voltage. Add suffix **-1** for 120V, **-2** for 208V, **-3** for 240V, **-4** for 277V.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Short refractor guard: stainless steel
- Tall refractor guard: diecast aluminum
- Globe guard, short refractor guard and safety cable: stainless steel wire

Standard Finishes

- Mounting hoods, bodies and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- NEMA/ANSI/IEC Standards: 60529
- Standard Model:
 - UL Standard: UL 844; UL 1598; UL 50E; UL 8750; UL 60079-0; UL 60079-7; UL 60079-31
 - CSA Standard: C22.2 No. 0 - 10; C22.2 No. 94.2 - 15; C22.2 No. 137 -M1981; C22.2 No. 250.0 - 08; C22.2 No. 250.13 -14; C22.2 No. 60529; C22.2 No. 60079-0:15; C22.2 No. 60079-7:16; C22.2 No. 60079-31:15; CSA E60598-1:16
 - cCSAus: 164460, Certificate Number: 70112879

- Emergency Battery Backup Model:
 - UL Standard: UL 844; UL 1598; UL 50E; UL 8750; UL 60079-0; UL 924
 - CSA Standard: C22.2 No. 0 -10; C22.2 No. 94.2 - 15; C22.2 No. 137 -18; C22.2 No. 250.0 - 08; C22.2 No. 250.13 -14; CSA E60598-1:16
 - cCSAus: 164460, Certificate Number: 70182640

ATEX/IECEx Certifications and Compliances

- Standard Model:
 - Certification Type: Mercmaster Generation 3
 - Gas: Zones 2
 - Conforming to ATEX 2014/34/EU: II 3 G
 - Type of Protection: Ex ec IIC T* Gc
 - Temperature Class: T6 to T3
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC T**C Db; Ex tc IIIC T**C Dc
 - Surface Temperature: +61 °C to +104 °C (+142 °F to +219 °F)
 - Ambient Temperature: -40 °C up to +75 °C (-40 °F up to +167 °F)
 - ATEX Certificate: UL 22 ATEX 2672X, UL 22 ATEX 2682X
 - IECEx Certificate: IECEx UL 22.0003X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK08
 - Photobiological Safety, IEC 62778 and IEC 62471: RG0 for all models

ABS Certifications

- Standard Model: 18-HS1726695-PDA
- Emergency Battery Backup Model: 22-2235738-PDA

International Dark-Sky Association

- Standard Model
 - IDA Dark-Sky Approved when ordering [I]MLG[A/B/C/D/R/W] xxW[P/D/G]5Bxxx with MMVISOR accessory

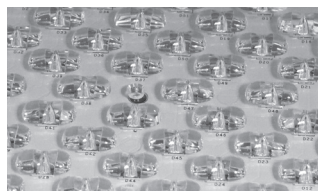
Design Lights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Industrial Mercmaster LED Generation 3 Luminaires
- Mercmaster LED Generation 3 Zone 1 Luminaires
- Mercmaster Connect LED Luminaires

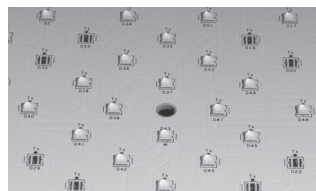
Illustrated Features — All Models



Type I - Long and narrow distribution pattern designed with walkways in mind.



Type III - Wall mounted distribution pattern designed where you need good forward light projection.



Type V - Symmetrical circle distribution pattern ideal when you need even coverage in all directions.



Type V Wide - Like the Type V distribution pattern with more vertical lumens designed to help spread the light quicker and more outdoors.

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Illustrated Features — All Models

Choose from **three color temperatures** (CCT): 3000K, 4000K, and 5000K ‡.

Four light distribution patterns: Type I, Type III, Type V and Type V Wide for application flexibility.

Seven mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.

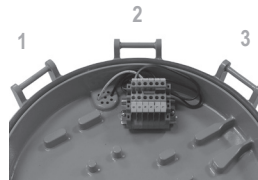
Standard Model — **Four globes:** clear and diffused polycarbonate, clear glass globe, and prismatic refractor provide just the right level of diffusion.

Emergency Battery Backup Model — **Three globes:** clear and diffused polycarbonate and clear glass globe provide just the right level of diffusion.

Safety Features



Type I and Type III Hinge System



Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

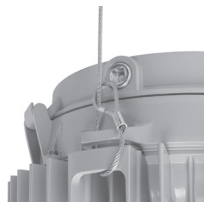
Type I and Type III light distribution patterns use a multiple hinged housing design which allows you to correctly line up the beam pattern in your desired direction. By using one of the three available hinges you can position the fixture for optimal light output.

Designed for the Environment



Driver housing design incorporates separate sections for the terminal block and driver. The efficient thermal design ensures reliable heat transfer from the LED assembly out via the heatsink and the cast, epoxy powder coat, aluminum housing.

Safety Cable



Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

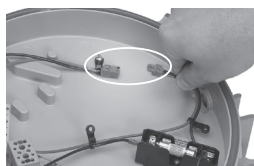
Watertight Pendant Hood



Watertight pendant hood provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.

Illustrated Features — Emergency Battery Backup Model

Quick Disconnect



Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance in hazardous locations.

Field Changeable Duration Setting



Easy field changeable duration setting between 90 and 180 minutes.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

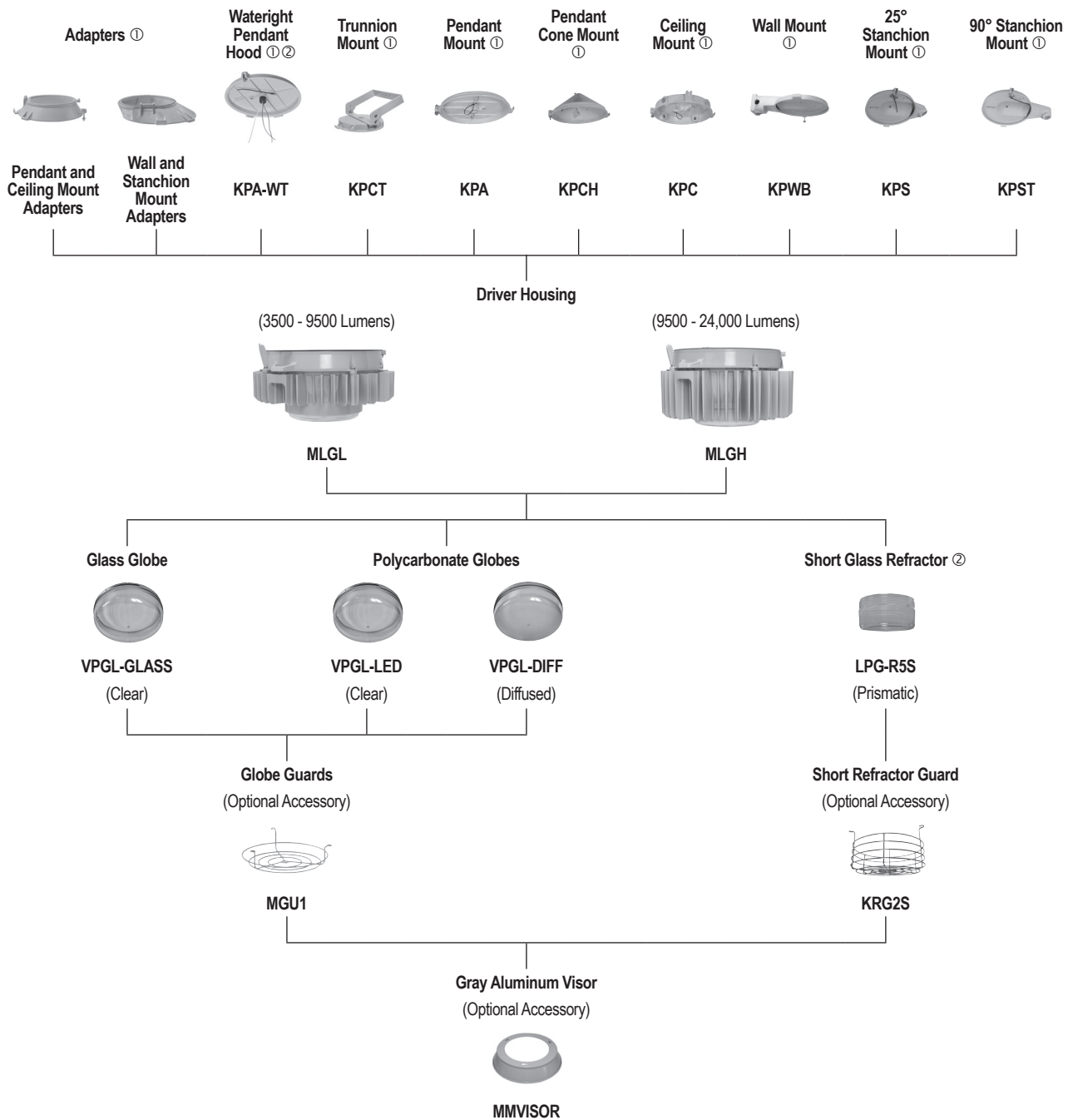
Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Family Tree — Mercmaster™ LED Generation 3 Series Luminaires — Standard Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

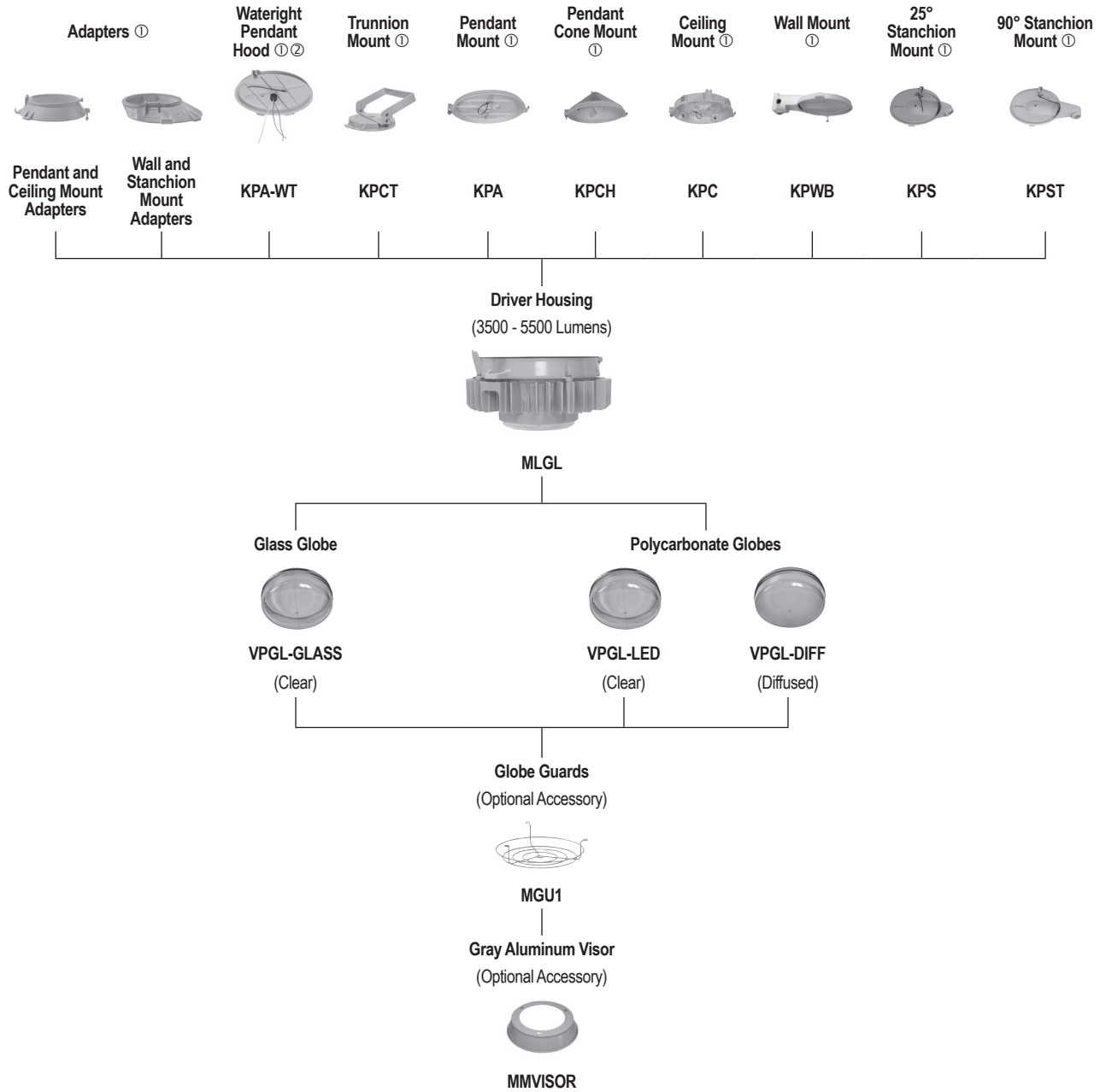
Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Family Tree — Mercmaster™ LED Generation 3 Series Luminaires — Emergency Battery Backup Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAs only.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Order Using Catalog Numbering Guide — Mercmaster™ LED Generation 3 Series Hazardous Location Luminaires — Standard Model

<p>MLG</p> <p>Series Prefix: MLG - Mercmaster LED Generation 3 Series</p>	<p>A</p> <p>Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling ⑤ D - Pendant Cone ▲ ⑤ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ ✦ Adapter, Ceiling or Pendant ▲ ⑥ Y - Crouse Hinds™ ✦ Adapter, Stanchion or Wall ▲ Blank - No mounting hood</p>	<p>L3</p> <p>Lumen (nominal): ✦ ✦ L3 - 3,500 L5 - 5,500 L7 - 7,500 L9 - 9,500 H9 - 9,500 ⑧ H1 - 11,500 H3 - 13,500 H6 - 17,500 X1 - 20,000 X5 - 24,000</p>	<p>2</p> <p>Hub Size: 2 - 3/4" NPT ① 3 - 1" NPT ① 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 ① Blank - If using adapter or no hood</p>	<p>C</p> <p>Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K</p>	<p>P</p> <p>Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ③ J - Short Glass Prismatic Refractor ③ ⑥</p>	<p>5</p> <p>Light Distribution Pattern: 1 - Type I ② 3 - Type III ② 5 - Type V ② W - Type V Wide</p>	<p>BU</p> <p>Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc ⑦ BH - 347-480 Vac, 50/60 Hz ▲</p>	<p>F</p> <p>Options: ⌘ F - Fusing Blank - No fusing</p>	<p>1</p> <p>Options: 1 - Photocontrol 120V ④ 2 - Photocontrol 208V ④ 3 - Photocontrol 240V ④ 4 - Photocontrol 277V ④ S - Additional surge to 10 kV ② A - High Ambient ⑧ ✦ Blank - No Options Chosen</p>
--	--	---	---	--	---	---	---	--	--

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered on 90° or 25° Stanchion mounting options.
 ② 10 year warranty standard when ordered with light distribution pattern Type I, III or V Wide or additional (10 kV) surge protection (not available with high ambient options). 10 kV surge is not rated for ATEX/IECEx.
 ③ Guards for the glass refractors and globes are ordered separately. See the Accessories for more information.
 ④ Photocontrol available for 120-277 Vac only. Factory installed in the mounting hood. Photocontrols only certified for cCSAus. Luminaires with photocontrol are not rated IECEx, IP66/67, Class II, 3R, 4, 4X, or Marine Outside Type (Salt Water).
 ⑤ Ceiling-mount and pendant cone mounting hoods and adapters are not designed to use the in hood photocontrol. Ceiling and pendant cone mounts must use an FS/FD box with photocontrol (ordered separately).
 ⑥ Only allowed for Type V and Type V Wide light distribution.
 ⑦ For 125-170 Vdc, operating temperature range is -40 °C to +55 °C (-40 °F to +131 °F) (for IECEx/ATEX only). NEC/CEC operating temperature remains -40 °C to +65 °C (-40 °F to +149 °F) for full Vdc range).

⑧ H9 only available with High Ambient option (-A). See details in Temperature code tables for specific NEC/CEC or ATEX/IECEx applications.
 ⑨ Short glass prismatic refractor (J) is only available in light distribution pattern Type V. Refractor is not rated for ATEX/IECEx.
 ✦ For NEC/CEC, high ambient is available with lumen packages L3 to H3. For ATEX/IECEx, high ambient is only available with lumen packages L7, H9 and H1. See details in Temperature code tables for specific NEC/CEC or ATEX/IECEx applications.
 ✦ For lumen output information, see Lumen Output (Efficacy) Table.
 ⌘ Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.
 ‡ Other CCT options available upon request. Contact your local sales representative for more information.
 ▲ Adapters, watertight pendant hood and BH Voltage only certified for cCSAus. Not available for use with photocontrol.
 ✦ Killark is a registered trademark of Hubbell Incorporated.
 ✦ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Order Using Catalog Numbering Guide — Mercmaster™ LED Generation 3 Series Hazardous Location Luminaires — Emergency Battery Backup Model

MLG	A	L3	2	C	P	5	BU	H
Series Prefix: MLG - Mercmaster LED Generation 3 Series with Emergency Battery Backup	Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling D - Pendant Cone ▲ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ ✦ Adapter, Ceiling or Pendant ▲ ③ Y - Crouse Hinds™ ✦ Adapter, Stanchion or Wall ▲ Blank - No mounting hood	Lumen (nominal): ✦ L3 - 3,500 L5 - 5,500	Hub Size: 2 - 3/4" NPT ① 3 - 1" NPT ① 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 ① Blank - No hub if using adapter or ordering driver housing only (no mounting hood)	Color Temperature: C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K	Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ②	Light Distribution Pattern: 1 - Type I ④ 3 - Type III ④ 5 - Type V W - Type V Wide	Voltage: BU - 120-277 Vac, 50/60 Hz	Emergency: H - 90 Minutes E - 180 Minutes

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered on 90° or 25° Stanchion mounting options.

② Guards for the globes are ordered separately. See the Accessories for more information.

③ Only allowed for Type V and Type V Wide light distribution.

④ Type I and Type III use a multiple hinge housing.

✦ For lumen output information, see Lumen Output (Efficacy) Table.

▲ Adapters only certified for cCSAus.

✦ Killark is a registered trademark of Hubbell Incorporated.

✦ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
MLGL3	70-100W	Type I	3000K	80	2800	87	4000K	80	2800	93	5000K	70	3200	107
		Type III	3000K	80	3000	93	4000K	80	3200	100	5000K	70	3500	117
		Type V	3000K	80	2950	98	4000K	80	3300	103	5000K	70	3700	110
		Type V Wide	3000K	80	3000	100	4000K	80	3150	105	5000K	70	3600	112
MLGL5	100-150W	Type I	3000K	80	4100	83	4000K	80	4500	91	5000K	70	5100	104
		Type III	3000K	80	4300	89	4000K	80	4700	100	5000K	70	5300	113
		Type V	3000K	80	4400	96	4000K	80	5000	100	5000K	70	5500	108
		Type V Wide	3000K	80	4450	97	4000K	80	4700	102	5000K	70	5100	109
MLGL7	175-250W	Type I	3000K	80	6250	105	4000K	80	6900	116	5000K	70	7500	132
		Type III	3000K	80	6500	111	4000K	80	7100	123	5000K	70	7500	139
		Type V	3000K	80	6950	114	4000K	80	7400	120	5000K	70	7900	125
		Type V Wide	3000K	80	6550	117	4000K	80	7550	124	5000K	70	7550	130
MLGL9	250-350W	Type I	3000K	80	7800	104	4000K	80	8400	112	5000K	70	9400	125
		Type III	3000K	80	8900	112	4000K	80	9400	117	5000K	70	9800	131
		Type V	3000K	80	9100	104	4000K	80	9500	109	5000K	70	9800	123
		Type V Wide	3000K	80	8500	106	4000K	80	8950	112	5000K	70	10100	126
MLGH9	250-350W	Type I	3000K	80	7800	104	4000K	80	8400	112	5000K	70	9400	125
		Type III	3000K	80	8900	108	4000K	80	9200	117	5000K	70	10200	131
		Type V	3000K	80	9150	116	4000K	80	9500	120	5000K	70	10800	137
		Type V Wide	3000K	80	8400	106	4000K	80	8700	110	5000K	70	9900	125
MLGH1	350-400W	Type I	3000K	80	9500	102	4000K	80	10200	110	5000K	70	11500	124
		Type III	3000K	80	10700	109	4000K	80	10700	115	5000K	70	12000	129
		Type V	3000K	80	10900	117	4000K	80	11800	127	5000K	70	13200	142
		Type V Wide	3000K	80	9700	104	4000K	80	10500	113	5000K	70	11800	127
MLGH3	400W	Type I	3000K	80	11400	99	4000K	80	12300	107	5000K	70	13800	120
		Type III	3000K	80	11900	103	4000K	80	12900	112	5000K	70	14500	126
		Type V	3000K	80	13100	114	4000K	80	14200	123	5000K	70	15900	138
		Type V Wide	3000K	80	11700	102	4000K	80	12700	110	5000K	70	14300	124
MLGH6	400-600W	Type I	3000K	80	13900	96	4000K	80	15100	104	5000K	70	16900	117
		Type III	3000K	80	14900	104	4000K	80	15600	108	5000K	70	17500	121
		Type V	3000K	80	16300	113	4000K	80	17100	118	5000K	70	19100	132
		Type V Wide	3000K	80	14700	102	4000K	80	15500	107	5000K	70	17400	120
MLGX1	600-750W	Type I	3000K	80	16431	97	4000K	80	17336	103	5000K	70	18338	109
		Type III	3000K	80	17110	101	4000K	80	18084	107	5000K	70	19096	113
		Type V	3000K	80	18623	110	4000K	80	19863	118	5000K	70	21019	124
		Type V Wide	3000K	80	17072	101	4000K	80	18044	107	5000K	70	19054	113
MLGX5	1000W	Type I	3000K	80	18859	90	4000K	80	19932	95	5000K	70	21048	100
		Type III	3000K	80	19514	93	4000K	80	20625	98	5000K	70	21779	104
		Type V	3000K	80	22103	105	4000K	80	23575	112	5000K	70	24947	119
		Type V Wide	3000K	80	20424	97	4000K	80	21586	103	5000K	70	22794	109

① All lumen values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II |

Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X |

IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations

ATEX/IECEx Standard Model: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe														
MLGL3	70-100W	Type I	3000K	80	2700	87	4000K	80	2800	95	5000K	70	3100	108
		Type III	3000K	80	2800	92	4000K	80	3000	101	5000K	70	3300	112
		Type V	3000K	80	2900	97	4000K	80	3200	107	5000K	70	3600	123
		Type V Wide	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	113
MLGL5	100-150W	Type I	3000K	80	4000	85	4000K	80	4400	94	5000K	70	4900	107
		Type III	3000K	80	4200	91	4000K	80	4600	100	5000K	70	5100	110
		Type V	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5400	120
		Type V Wide	3000K	80	4200	90	4000K	80	4600	100	5000K	70	5000	110
MLGL7	175-250W	Type I	3000K	80	6000	101	4000K	80	6600	109	5000K	70	6900	122
		Type III	3000K	80	6400	108	4000K	80	6900	114	5000K	70	7200	126
		Type V	3000K	80	6600	116	4000K	80	7300	128	5000K	70	7700	129
		Type V Wide	3000K	80	6200	105	4000K	80	6600	115	5000K	70	7200	126
MLGL9/ MLGH9	250-350W	Type I	3000K	80	7700	101	4000K	80	8300	106	5000K	70	8900	118
		Type III	3000K	80	8400	106	4000K	80	8800	113	5000K	70	9700	124
		Type V	3000K	80	8500	113	4000K	80	9200	123	5000K	70	10300	137
		Type V Wide	3000K	80	8200	105	4000K	80	8700	111	5000K	70	9700	124
MLGH1	350-400W	Type I	3000K	80	9600	98	4000K	80	10000	104	5000K	70	11100	115
		Type III	3000K	80	10100	104	4000K	80	10600	110	5000K	70	11700	121
		Type V	3000K	80	10300	111	4000K	80	11200	120	5000K	70	12500	134
		Type V Wide	3000K	80	9900	102	4000K	80	10400	109	5000K	70	11700	121
MLGH3	400W	Type I	3000K	80	10900	96	4000K	80	11600	103	5000K	70	12900	114
		Type III	3000K	80	11700	103	4000K	80	12400	109	5000K	70	13600	120
		Type V	3000K	80	12500	109	4000K	80	13500	117	5000K	70	15100	131
		Type V Wide	3000K	80	11500	101	4000K	80	12100	107	5000K	70	13700	120
MLGH6	400-600W	Type I	3000K	80	13200	93	4000K	80	14000	99	5000K	70	15700	109
		Type III	3000K	80	14200	99	4000K	80	15000	105	5000K	70	16500	115
		Type V	3000K	80	15800	109	4000K	80	17000	118	5000K	70	18200	126
		Type V Wide	3000K	80	14000	97	4000K	80	14800	104	5000K	70	16600	116
MLGX1	600-750W	Type I	3000K	80	15587	92	4000K	80	16491	98	5000K	70	17377	103
		Type III	3000K	80	16221	96	4000K	80	17161	102	5000K	70	18083	107
		Type V	3000K	80	18036	107	4000K	80	19260	114	5000K	70	20063	119
		Type V Wide	3000K	80	16153	96	4000K	80	17089	101	5000K	70	18007	107
MLGX5	1000W	Type I	3000K	80	17885	85	4000K	80	18922	90	5000K	70	19939	95
		Type III	3000K	80	18499	88	4000K	80	19571	93	5000K	70	20623	98
		Type V	3000K	80	21475	102	4000K	80	22932	109	5000K	70	23888	114
		Type V Wide	3000K	80	19275	92	4000K	80	20393	97	5000K	70	21489	102

① All lumen values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass Globe														
MLGL3	70-100W	Type I	3000K	80	2900	93	4000K	80	3100	103	5000K	70	3500	117
		Type III	3000K	80	3100	102	4000K	80	3200	107	5000K	70	3700	123
		Type V	3000K	80	3100	103	4000K	80	3200	107	5000K	70	3450	115
		Type V Wide	3000K	80	3150	105	4000K	80	3400	108	5000K	70	3750	117
MLGL5	100-150W	Type I	3000K	80	4200	91	4000K	80	4600	100	5000K	70	5300	115
		Type III	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5400	117
		Type V	3000K	80	4650	101	4000K	80	5300	114	5000K	70	5700	112
		Type V Wide	3000K	80	4700	102	4000K	80	4900	107	5000K	70	5250	114
MLGL7	175-250W	Type I	3000K	80	6400	112	4000K	80	7100	125	5000K	70	8000	140
		Type III	3000K	80	6600	116	4000K	80	7300	128	5000K	70	8300	146
		Type V	3000K	80	7250	119	4000K	80	7600	125	5000K	70	8200	131
		Type V Wide	3000K	80	7750	124	4000K	80	7900	130	5000K	70	8300	136
MLGL9	250-350W	Type I	3000K	80	8500	111	4000K	80	8800	117	5000K	70	9900	132
		Type III	3000K	80	9100	115	4000K	80	9800	124	5000K	70	10400	139
		Type V	3000K	80	8550	107	4000K	80	9800	113	5000K	70	10150	127
		Type V Wide	3000K	80	8850	111	4000K	80	9300	116	5000K	70	10500	131
MLGH9	250-350W	Type I	3000K	80	8100	108	4000K	80	8800	117	5000K	70	9900	132
		Type III	3000K	80	8600	115	4000K	80	9300	124	5000K	70	10400	139
		Type V	3000K	80	9300	124	4000K	80	10100	135	5000K	70	11200	149
		Type V Wide	3000K	80	8500	113	4000K	80	9200	123	5000K	70	10300	137
MLGH1	350-400W	Type I	3000K	80	9900	106	4000K	80	10700	115	5000K	70	12000	129
		Type III	3000K	80	11200	115	4000K	80	11300	122	5000K	70	12600	135
		Type V	3000K	80	11400	123	4000K	80	12300	132	5000K	70	13600	146
		Type V Wide	3000K	80	10300	111	4000K	80	11200	120	5000K	70	12500	134
MLGH3	400W	Type I	3000K	80	12000	104	4000K	80	12900	112	5000K	70	14500	126
		Type III	3000K	80	12600	110	4000K	80	13600	118	5000K	70	15300	133
		Type V	3000K	80	13700	119	4000K	80	14900	130	5000K	70	16400	143
		Type V Wide	3000K	80	12500	109	4000K	80	13500	117	5000K	70	15100	131
MLGH6	400-600W	Type I	3000K	80	14500	100	4000K	80	15700	108	5000K	70	17700	122
		Type III	3000K	80	15100	104	4000K	80	16400	113	5000K	70	18400	127
		Type V	3000K	80	17000	117	4000K	80	18000	124	5000K	70	20100	139
		Type V Wide	3000K	80	15000	103	4000K	80	16300	112	5000K	70	18200	126
MLGX1	600-750W	Type I	3000K	80	17170	102	4000K	80	18188	108	5000K	70	19206	114
		Type III	3000K	80	17931	106	4000K	80	18994	112	5000K	70	20057	119
		Type V	3000K	80	20006	118	4000K	80	21366	126	5000K	70	21937	130
		Type V Wide	3000K	80	17830	106	4000K	80	18887	112	5000K	70	19944	118
MLGX5	1000W	Type I	3000K	80	19468	93	4000K	80	20623	98	5000K	70	21777	104
		Type III	3000K	80	20342	97	4000K	80	21548	103	5000K	70	22754	108
		Type V	3000K	80	23776	113	4000K	80	25392	121	5000K	70	26070	124
		Type V Wide	3000K	80	21285	101	4000K	80	22547	107	5000K	70	23809	113

① All lumen values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II |

Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X |

IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations

ATEX/IECEx Standard Model: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Glass Prismatic Refractor														
MLGL3	70-100W	Type V	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	111
MLGL5	100-150W	Type V	3000K	80	4200	90	4000K	80	4600	99	5000K	70	5100	110
MLGL7	175-250W	Type V	3000K	80	6300	107	4000K	80	6700	113	5000K	70	7300	123
MLGL9/ MLGH9	250-350W	Type V	3000K	80	8400	107	4000K	80	8800	112	5000K	70	9700	124
MLGH1	350-400W	Type V	3000K	80	10100	105	4000K	80	10600	110	5000K	70	11700	121
MLGH3	400W	Type V	3000K	80	11800	104	4000K	80	12400	109	5000K	70	13600	120
MLGH6	400-600W	Type V	3000K	80	14500	100	4000K	80	15100	105	5000K	70	16700	116
MLGX1	600-750W	Type V	3000K	80	16798	99	4000K	80	17915	106	5000K	70	18318	108
MLGX5	1000W	Type V	3000K	80	19962	95	4000K	80	21290	101	5000K	70	21769	104

① All lumen values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) — Emergency Battery Backup Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
MLGL3	70-100W	Type I	3000K	80	2600	87	4000K	80	3000	100	5000K	70	3200	107
		Type III	3000K	80	2800	93	4000K	80	3000	100	5000K	70	3500	117
		Type V	3000K	80	3000	100	4000K	80	3300	110	5000K	70	3800	127
		Type V Wide	3000K	80	2900	96	4000K	80	2900	97	5000K	70	3600	119
MLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type III	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V Wide	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
MLGL5	100-150W	Type I	3000K	80	3800	83	4000K	80	4200	91	5000K	70	4800	104
		Type III	3000K	80	4100	89	4000K	80	4600	100	5000K	70	5200	113
		Type V	3000K	80	4500	98	4000K	80	5000	109	5000K	70	5700	124
		Type V Wide	3000K	80	4400	94	4000K	80	4800	105	5000K	70	6000	129
MLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type III	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V Wide	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
Diffused Polycarbonate Globe														
MLGL3	70-100W	Type I	3000K	80	2700	87	4000K	80	2900	95	5000K	70	3200	108
		Type III	3000K	80	2800	92	4000K	80	3000	101	5000K	70	3300	112
		Type V	3000K	80	2900	97	4000K	80	3200	107	5000K	70	3700	123
		Type V Wide	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	113
MLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type III	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V Wide	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
MLGL5	100-150W	Type I	3000K	80	4000	85	4000K	80	4400	94	5000K	70	4900	107
		Type III	3000K	80	4200	91	4000K	80	6400	100	5000K	70	5100	110
		Type V	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5500	120
		Type V Wide	3000K	80	4200	90	4000K	80	4600	100	5000K	70	5100	110
MLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type III	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V Wide	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) — Emergency Battery Backup Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass Globe														
MLGL3	70-100W	Type I	3000K	80	2800	93	4000K	80	3100	103	5000K	70	3500	111
		Type III	3000K	80	3100	102	4000K	80	3200	107	5000K	70	3700	116
		Type V	3000K	80	3100	102	4000K	80	3600	120	5000K	70	4000	133
		Type V Wide	3000K	80	3100	101	4000K	80	3200	107	5000K	70	3600	120
MLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type III	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V Wide	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1350	N/A
MLGL5	100-150W	Type I	3000K	80	4200	91	4000K	80	5000	106	5000K	70	5300	115
		Type III	3000K	80	4400	95	4000K	80	5200	110	5000K	70	5400	117
		Type V	3000K	80	4800	104	4000K	80	5300	113	5000K	70	6000	130
		Type V Wide	3000K	80	4900	99	4000K	80	5200	110	5000K	70	5400	117
MLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type III	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V Wide	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1350	N/A

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Electrical Specifications — Standard Model ①

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
MLGL3	120 Vac	30	0.26	> 0.9	< 20%
	277 Vac	30	0.12		
	170 Vdc	30	0.18	N/A	N/A
	300 Vdc	31	0.10		
	347 Vac	33	0.10		
MLGL5	480 Vac	33	0.07	> 0.9	< 20%
	120 Vac	46	0.39	> 0.9	< 20%
	277 Vac	46	0.17		
	170 Vdc	46	0.27	N/A	N/A
	300 Vdc	46	0.16		
347 Vac	49	0.14			
MLGL7	480 Vac	49	0.11	> 0.9	< 20%
	120 Vac	57	0.48	> 0.9	< 20%
	277 Vac	57	0.23		
	170 Vdc	57	0.34	N/A	N/A
	300 Vdc	57	0.19		
347 Vac	60	0.18			
MLGL9/MLGH9	480 Vac	60	0.14	> 0.9	< 20%
	120 Vac	75	0.64	> 0.9	< 20%
	277 Vac	75	0.29		
	170 Vdc	75	0.45	N/A	N/A
	300 Vdc	75	0.25		
347 Vac	79	0.23			
MLGH1	480 Vac	79	0.17	> 0.9	< 20%
	120 Vac	93	0.79	> 0.9	< 20%
	277 Vac	93	0.35		
	170 Vdc	93	0.55	N/A	N/A
	300 Vdc	93	0.31		
347 Vac	97	0.28			
MLGH3	480 Vac	97	0.21	> 0.9	< 20%
	120 Vac	115	0.99	> 0.9	< 20%
	277 Vac	115	0.44		
	170 Vdc	115	0.68	N/A	N/A
	300 Vdc	115	0.38		
347 Vac	118	0.34			
MLGH6	480 Vac	118	0.25	> 0.9	< 20%
	120 Vac	145	1.24	> 0.9	< 20%
	277 Vac	145	0.54		
	170 Vdc	145	0.86	N/A	N/A
	300 Vdc	145	0.48		
347 Vac	145	0.42			
MLGX1	480 Vac	145	0.31	> 0.9	< 20%
	120 Vac	169	1.43	> 0.9	< 20%
	277 Vac	165	0.63		
	170 Vdc	169	1.30	N/A	N/A
	300 Vdc	166	0.64		
347 Vac	171	0.50			
MLGX5	480 Vac	170	0.37	> 0.9	< 20%
	120 Vac	210	1.79	> 0.9	< 20%
	277 Vac	204	0.82		
	170 Vdc	209	1.60	N/A	N/A
	300 Vdc	203	0.76		
347 Vac	209	0.61			
	480 Vac	209	0.45	> 0.9	< 20%

① All values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

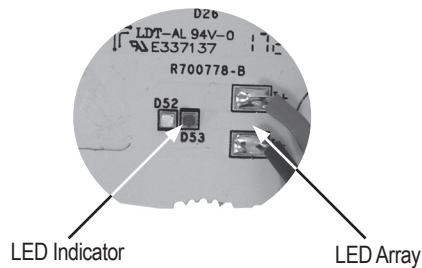
Electrical Specifications — Emergency Battery Backup Model ①

Model	Voltage	Input Power (Watts)	Input Current (Amp)	Power Factor (PF)	Total Harmonic Distortion (THD)
MLGL3	120 Vac	30	0.26	> 0.9	< 20%
	277 Vac	30	0.12		
MLGL5	120 Vac	46	0.39	> 0.9	< 20%
	277 Vac	46	0.17		

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 30 seconds	Lasts for the full duration of the rated emergency period

At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present



LED Signals

Indicator Color	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator Lights (Red and Green) OFF	No AC, Emergency mode ON

① All values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

NEC/CEC Temperature Codes — Standard Model ①

Model ②	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 21, Group IIIC	Class I, Division 2 and Class II, Division 1
MLGL3	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)		T4A	T4	T5	T5	T4A
	65 (149)		T4	T4	T5	T5	T4
MLGL3 - A	75 (167)	90 (194)	T4	T4	T4A	T4	T3C
	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
55 (131)	T4		T4	T5	T5	T4	
65 (149)	T3C		T3	T5	T5	T3C	
MLGL5 - A	75 (167)	90 (194)	T3C	T3	T4A	T4	T3C
	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
55 (131)	T4A		T4	T5	T6	T4	
65 (149)	T4		T4	T5	T6	T3C	
MLGL7 - A	70 (158)	90 (194)	T4	T4	T5	T5	T3C
	75 (167)	90 (194)	T4	T4	T4A	T4	T3C
MLGL9	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)		T4	T4	T5	T5	T4
	65 (149)		T4	T4	T5	T5	T4
MLGL9 - A	70 (158)	90 (194)	T3C	T3	T5	T6	T3C
	70 (158)	90 (194)	T3C	T3	T5	T6	T3C
MLGH1	40 (104)	90 (194)	T3C	T3	T6	T6	T3C
	55 (131)		T3C	T3	T6	T6	T3C
	65 (149)		T3C	T3	T6	T6	T3C
MLGH1 - A	70 (158)	90 (194)	T3B	T3	T5	T5	T3B
MLGH3	40 (104)	90 (194)	T3C	T3	T6	T6	T3C
	55 (131)		T3B	T3	T6	T6	T3B
	65 (149)		T3A	T3	T6	T5	T3A
MLGH3 - A	70 (158)	90 (194)	T3A	T3	T5	T5	T3A
MLGH6	40 (104)	90 (194)	T3A	T3	T6	T6	T3A
	55 (131)		T3A	T3	T6	T6	T3A
	65 (149)		T3	T3	T5	T5	T3
MLGX1	40 (104)	90 (194)	T3C	T3	T6	T6	T3C
	60 (140)		T3A	T3	T5	T5	T3A
MLGX5	40 (104)	90 (194)	T3B	T3	T6	T6	T3B
	55 (131)		T3A	T3	T5	T5	T3A

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ③④

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).

② -A suffix denotes High Ambient rating.

③ T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

④ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

ATEX/IECEx Temperature Codes — Standard Model ①

Model ②	Ambient Temperature °C (°F)	T-Code for Zone 2	T-Code for Zone 21/22
MLGL3	40 (104)	T4	T81°C
	55 (131)	T4	T88°C
	65 (149)	T4	T94°C
MLGL5	40 (104)	T4	T81°C
	55 (131)	T4	T88°C
	65 (149)	T3	T94°C
MLGL7	40 (104)	T4	T81°C
	55 (131)	T4	T88°C
	65 (149)	T4	T94°C
MLGL7-A	70 (158)	T4	T99°C
MLGL9	40 (104)	T4	T81°C
	55 (131)	T4	T88°C
	65 (149)	T4	T94°C
MLGH9-A	70 (158)	T3	T88°C
MLGH1	40 (104)	T3	T64°C
	55 (131)	T3	T77°C
	65 (149)	T3	T83°C
MLGH1 - A	70 (158)	T3	T88°C
MLGH3	40 (104)	T3	T66°C
	55 (131)	T3	T79°C
	65 (149)	T3	T86°C
MLGH6	40 (104)	T3	T71°C
	55 (131)	T3	T84°C
	65 (149)	T3	T95°C
MLGX1	40 (104)	T3	T82°C
	60 (140)	T3	T102°C
MLGX5	40 (104)	T3	T92°C
	55 (131)	T3	T104°C

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① For 125-170 Vdc, operating Temp. range is -40°C to +55 °C (For IECEx/ATEX only). NEC/CEC operating temp remains -40°C to +65°C (-40 °F to +149 °F) for full Vdc range.

② -A suffix denotes High Ambient rating.

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

NEC/CEC Temperature Codes — Emergency Battery Backup Model ①

Model	Max. Ambient Temperature °C (°F)	Min. Supply Wire °C (°F)	Class I Division 2, Groups A, B, C, D	Class I, Zone 2, Group IIC	Class II, Division 1, Groups E, F and G	Zone 21, Group IIIC	Class I, Division 2, Class II, Division 1
MLGL3	40 (104)	90 (194)	T5	T5	T6	T6	T5
	55 (131)		T5	T5	T6	T6	T5
MLGL5	40 (104)	90 (194)	T5	T5	T6	T6	T4A
	55 (131)		T5	T5	T6	T6	T4A

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ①②

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).

② T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

③ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Catalog Number for Driver Housing and Globe or Refractor — Standard Model

Lumen Level	CCT	Optics	Clear Polycarbonate Globe ①②③④⑤	Polycarbonate Diffused Globe ①②③④⑤	Clear Glass Globe ①②③④⑤	Refractor ①②③④⑤
3500	5000K	Type I	MLGL3CP1	MLGL3CD1	MLGL3CG1	—
		Type III	MLGL3CP3	MLGL3CD3	MLGL3CG3	—
		Type V	MLGL3CP5	MLGL3CD5	MLGL3CG5	MLGL3CJ5
		Type V Wide	MLGL3CPW	MLGL3CDW	MLGL3CGW	—
5500	5000K	Type I	MLGL5CP1	MLGL5CD1	MLGL5CG1	—
		Type III	MLGL5CP3	MLGL5CD3	MLGL5CG3	—
		Type V	MLGL5CP5	MLGL5CD5	MLGL5CG5	MLGL5CJ5
		Type V Wide	MLGL5CPW	MLGL5CDW	MLGL5CGW	—
7500	5000K	Type I	MLGL7CP1	MLGL7CD1	MLGL7CG1	—
		Type III	MLGL7CP3	MLGL7CD3	MLGL7CG3	—
		Type V	MLGL7CP5	MLGL7CD5	MLGL7CG5	MLGL7CJ5
		Type V Wide	MLGL7CPW	MLGL7CDW	MLGL7CGW	—
9500 ⑥	5000K	Type I	MLGL9CP1/MLGH9CP1	MLGL9CD1/MLGH9CD1	MLGL9CG1/MLGH9CG1	—
		Type III	MLGL9CP3/MLGH9CP3	MLGL9CD3/MLGH9CD3	MLGL9CG3/MLGH9CG3	—
		Type V	MLGL9CP5/MLGH9CP5	MLGL9CD5/MLGH9CD5	MLGL9CG5/MLGH9CG5	MLGL9CJ5/MLGH9CJ5
		Type V Wide	MLGL9CPW/MLGH9CPW	MLGL9CDW/MLGH9CDW	MLGL9CGW/MLGH9CGW	—
11,500	5000K	Type I	MLGH1CP1	MLGH1CD1	MLGH1CG1	—
		Type III	MLGH1CP3	MLGH1CD3	MLGH1CG3	—
		Type V	MLGH1CP5	MLGH1CD5	MLGH1CG5	MLGH1CJ5
		Type V Wide	MLGH1CPW	MLGH1CDW	MLGH1CGW	—
14,500	5000K	Type I	MLGH3CP1	MLGH3CD1	MLGH3CG1	—
		Type III	MLGH3CP3	MLGH3CD3	MLGH3CG3	—
		Type V	MLGH3CP5	MLGH3CD5	MLGH3CG5	MLGH3CJ5
		Type V Wide	MLGH3CPW	MLGH3CDW	MLGH3CGW	—
17,500	5000K	Type I	MLGH6CP1	MLGH6CD1	MLGH6CG1	—
		Type III	MLGH6CP3	MLGH6CD3	MLGH6CG3	—
		Type V	MLGH6CP5	MLGH6CD5	MLGH6CG5	MLGH6CJ5
		Type V Wide	MLGH6CPW	MLGH6CDW	MLGH6CGW	—
20,000	5000K	Type I	MLGX1CP1	MLGX1CD1	MLGX1CG1	—
		Type III	MLGX1CP3	MLGX1CD3	MLGX1CG3	—
		Type V	MLGX1CP5	MLGX1CD5	MLGX1CG5	MLGX1CJ5
		Type V Wide	MLGX1CPW	MLGX1CDW	MLGX1CGW	—
24,000	5000K	Type I	MLGX5CP1	MLGX5CD1	MLGX5CG1	—
		Type III	MLGX5CP3	MLGX5CD3	MLGX5CG3	—
		Type V	MLGX5CP5	MLGX5CD5	MLGX5CG5	MLGX5CJ5
		Type V Wide	MLGX5CPW	MLGX5CDW	MLGX5CGW	—

① For 120-277 Vac, 50/60 Hz, add suffix **-BU** to catalog number. For 347-480 Vac, 50/60 Hz, add suffix **-BH** to catalog number.

② For other CCT options, change the 7th digit in part number from "C" to "W" for Warm 3000K CCT or "N" for Neutral 4000K CCT. Example: MLGL7CP5BU to "W" for Warm, MLGL7WP5BU.

③ Guards are available for fixtures with globe or refractor. See following pages for accessory ordering information.

④ For fusing add "F" to end of catalog number. Example: MLGL7CP5BUF.

⑤ Use of fuse voids Marine Outside Type (Salt Water) rating. Only available for cCSAus rating. For additional 10 kV of surge, add "S" to the end of catalog number. Example: MLGH6CD5BUS.

⑥ MLGH9 only available with certified High Ambient option (-A).

Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Catalog Number for Driver Housing and Globe — Emergency Battery Backup Model

Lumen Level	CCT	Optics	Clear Polycarbonate Globe ①②		Polycarbonate Diffused Globe ①②		Clear Glass Globe ①②	
			90 Min	180 Min	90 Min	180 Min	90 Min	180 Min
3500	5000K	Type I	MLGL3CP1BUH	MLGL3CP1BUE	MLGL3CD1BUH	MLGL3CD1BUE	MLGL3CG1BUH	MLGL3CG1BUE
		Type III	MLGL3CP3BUH	MLGL3CP3BUE	MLGL3CD3BUH	MLGL3CD3BUE	MLGL3CG3BUH	MLGL3CG3BUE
		Type V	MLGL3CP5BUH	MLGL3CP5BUE	MLGL3CD5BUH	MLGL3CD5BUE	MLGL3CG5BUH	MLGL3CG5BUE
		Type V Wide	MLGL3CPWBUH	MLGL3CPWBUE	MLGL3CDWBUH	MLGL3CDWBUE	MLGL3CGWBUH	MLGL3CGWBUE
5500	5000K	Type I	MLGL5CP1BUH	MLGL5CP1BUE	MLGL5CD1BUH	MLGL5CD1BUE	MLGL5CG1BUH	MLGL5CG1BUE
		Type III	MLGL5CP3BUH	MLGL5CP3BUE	MLGL5CD3BUH	MLGL5CD3BUE	MLGL5CG3BUH	MLGL5CG3BUE
		Type V	MLGL5CP5BUH	MLGL5CP5BUE	MLGL5CD5BUH	MLGL5CD5BUE	MLGL5CG5BUH	MLGL5CG5BUE
		Type V Wide	MLGL5CPWBUH	MLGL5CPWBUE	MLGL5CDWBUH	MLGL5CDWBUE	MLGL5CGWBUH	MLGL5CGWBUE

① For other CCT options, change the 7th digit in part number from "C" to "W" for Warm 3000K CCT or "N" for Neutral 4000K CCT. Example: MLGL7CP5BUH to "W" for Warm, MLGL7WP5BUH.









② Guards are available. See following pages for accessory ordering information.

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Mounting Hoods — All Models




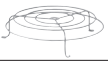



	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT	1.0 (2.3)	KPA-75
	1" NPT		KPA-100
	M20		KPA-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.4)	KPA-75-WT
	1" NPT		KPA-100-WT
	M20		KPA-WT-M20
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.5)	KPCH-75
	1" NPT		KPCH-100
	M20		KPCH-M20
Trunnion — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	6.1 (13.4)	KPCT-75
	1" NPT		KPCT-100
	M20		KPCT-M20
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.4 (3.0)	KPC-75
	1" NPT		KPC-100
	M20		KPC-M20
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.8 (4.0)	KPWB-75
	1" NPT		KPWB-100
	M20		KPWB-M20
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Mercmaster™ LED Generation 3 Series Luminaires




Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Accessories and Replacement Parts — All Models

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard			
	Globe Guard	0.2 (0.4)	MGU1
Safety Cable			
	Stainless steel	0.2 (0.4)	LEDSC
Visor			
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	MMVISOR
Drain Plug			
	76 mm (3") long, 1/2" NPT trade size drain assembly used to divert water existing in the conduit system	0.4 (0.9)	LEDDR3

Mounting Hood Adapters — All Models ①

	Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ® +	Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
	Appleton™ Mercmaster™ II	Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
	Crouse-Hinds™ Champ® +	Wall: TWM2/3 25° Angle Stanchion: JM5 90° Angle Stanchion: PM5	0.9 (2.00)	MMADCHVA
	Appleton™ Mercmaster™ II	Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
	Killark™ ✦	Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

① Adapters are cCSAus rated only.

✦ Killark is a registered trademark of Hubbell Incorporated.

+ Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Mercmaster™ LED Generation 3 Series Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 ATEX/IECEx Standard Model: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Accessories and Replacement Parts — Standard Model

Light Distribution	Weight in kg (lbs)	Catalog Number
--------------------	--------------------	----------------

Prismatic Glass Refractor — All Heat-Resistant ①



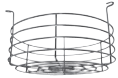
Short Prismatic Glass Refractor — NEMA Type V

1.4 (3.0)

LPG-R5S

Description	Catalog Number
-------------	----------------

Guards



Short Refractor Guard for LPG-R5S

0.3 (0.7)

KRG2S

Model	Voltage	Driver Wattage	Constant Current Settings	Catalog Number
-------	---------	----------------	---------------------------	----------------

Replacement Drivers



MLGL3	BU	50 Watt	500mA	APMS050C135UD50
	BH		500mA	APMS050C135HD50

MLGL5	BU	50 Watt	780mA	APMS050C135UD78
	BH		780mA	APMS050C135HD78



MLGL7	BU	100 Watt	360mA	APMS100C105UD36
	BH		360mA	APMS100C105HD36

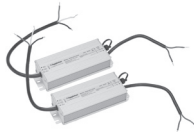
MLGL9 / MLGH9	BU	100 Watt	480mA	APMS100C105UD48
	BH		480mA	APMS100C105HD48

MLGH1	BU	100 Watt	595mA	APMS100C105UD59
	BH		595mA	APMS100C105HD59



MLGH3	BU	150 Watt	720mA	APMS150C105UD72
	BH		720mA	APMS150C105HD72

MLGH6	BU	150 Watt	900mA	APMS150C105UD90
	BH		900mA	APMS150C105HD90



MLGX1	BU	2 x 100 Watt	520mA	APMS100C105UD52
	BH		520mA	APMS100C105HD52

MLGX5	BU	2 x 150 Watt	650mA	APMS150C105UD65
	BH		650mA	APMS100C105HD65

① Glass Prismatic Refractor is cCSAus rated only.




Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
 Notable: American Bureau of Shipping (ABS) Certified

Accessories and Replacement Parts — Emergency Battery Backup Model

Description		Weight in kg (lbs)	Catalog Number		
	Replacement Battery Pack	0.7 (1.5)	BPMLLED		
	Replacement Battery Management Module	0.7 (1.5)	BMMLLED		
Replacement Fuse (Emergency system)		0.2 (0.4)	MLF5		
Model	Voltage	Driver Wattage	Constant Current Settings	Catalog Number	
Replacement Drivers					
	MLGL3	BU	50 Watt	500mA	APMS050C135UD50
		BH		500mA	APMS050C135HD50
	MLGL5	BU	50 Watt	780mA	APMS050C135UD78
		BH		780mA	APMS050C135HD78

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II |

Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X |

IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations

ATEX/IECEx Standard Model: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Luminaire Weights — All Models

Model	Lumen Outputs	Weight in kg (lbs)
Standard Models		
MLGL3	3500	9.20 (20.3)
MLGL5	5500	9.20 (20.3)
MLGL7	7500	9.20 (20.3)
MLGL9	9500	9.20 (20.3)
MLGH9	9500	12.00 (26.4)
MLGH1	11,500	12.00 (26.4)
MLGH3	14,500	12.00 (26.4)
MLGH6	17,500	12.00 (26.4)
MLGX1	20,000	13.15 (29.0)
MLGX5	25,000	13.15 (29.0)
Emergency Battery Backup Models		
MLGL3H	3500	10.5 (23.2)
MLGL5H	5500	10.5 (23.2)

PCD2 Series Factory Sealed Hazardous Location Photocontrol

For Use in Class I, Division 2, Groups A, B, C, D Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | NEMA 4X

Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- For remote mounting in FS Boxes.

Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Solid state design for performance and reliability.
- Available for 120, 208, 240, or 277 volts.
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18 AWG stranded leads 152.4 mm (6 in) in length.
- Will fit through standard 1/2" knockout.
- Supplied with two stainless screws and neoprene gasket.

Materials

- Encapsulated with epoxy sealing compound
- FS Cover: iron or aluminum

NEC/CEC Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized photocontrol



Photocontrol in FS Cover



Photocontrol Kit for Field Installation



Mercmaster Wall Mounting Hood with Photocontrol Installed

Photocontrol Kit — Separate FS Cast Hub Device Box (Step 1) and Photocontrol in FS Cover (Step 2)

	Voltage Range	Max VA	Max VA	Max Current Amps	Photocell Catalog Number	Device Box Catalog Number	
						Iron	Aluminum

Step 1: FS Cast Hub Device Box — single gang 2.00 in. deep FS Box, with one 3/4 in. bottom hub entry — Order separately

— Connect FS Box to luminaire wiring compartment with 3/4 in. close conduit nipple or 3/4 in. 90° elbow. Purchased separately from other supplier.



N/A	N/A	N/A	N/A	—		APP-FS-1-75	APP-FS-1-75-A
-----	-----	-----	-----	---	--	-------------	---------------

Step 2: Photocontrol in FS Cover for installation in FS Cast Hub Device Box — Order separately

— Supplied with two stainless screws and neoprene gasket, catalog number: FS-GKR-1N



120 V, 50/60 Hz	1000	1000	8.3 Amp	FSKA-PC120D2	—	—
208 V, 50/60 Hz	1000	1000	4.8 Amp			
240 V, 50/60 Hz	1000	1000	4.2 Amp	FSKA-PC247D2	—	—
277 V, 50/60 Hz	1000	1000	3.6 Amp			

Mounting Hood with Factory Installed Photocontrol ①

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number	Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120 V	KPA75PC12D2	25° Stanchion	1-1/4" NPT stanchion	120 V	KPS125PC12D2
		208 V, 240 V, 277 V	KPA75PC24D2			208 V, 240 V, 277 V	KPS125PC24D2
	1" NPT	120 V	KPA100PC12D2		1-1/2" NPT stanchion	120 V	KPS150PC12D2
		208 V, 240 V, 277 V	KPA100PC24D2			208 V, 240 V, 277 V	KPS150PC24D2
Wall	3/4" NPT	120 V	KPWB75PC12D2	90° Stanchion	1-1/4" NPT stanchion	120 V	KPST125PC12D2
		208 V, 240 V, 277 V	KPWB75PC24D2			208 V, 240 V, 277 V	KPST125PC24D2
	1" NPT	120 V	KPWB100PC12D2		1-1/2" NPT stanchion	120 V	KPST150PC12D2
		208 V, 240 V, 277 V	KPWB100PC24D2			208 V, 240 V, 277 V	KPST150PC24D2

① Fixtures with photocontrols are cCSAus rated and available for 120-277 Vac only. The following ratings do not apply: IP, Marine Outside Type (Salt Water), Class II, NEMA. The luminaire remains suitable for wet locations.

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

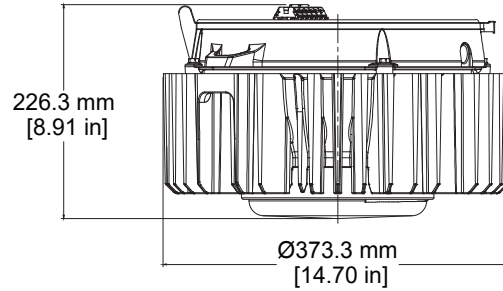
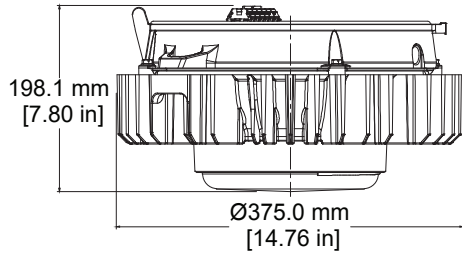
NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Dimensional Drawings — Driver Housing with Globe

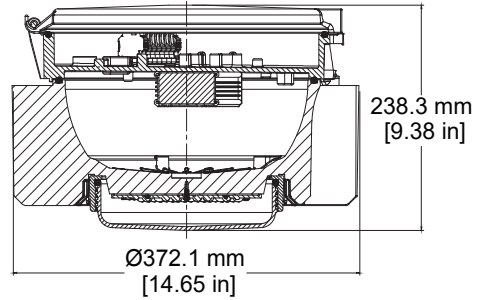
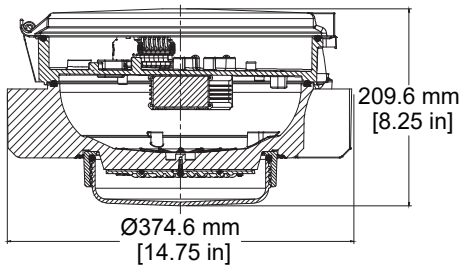
MLGL3 to MLGL9

MLGH6 to MLGH9 and MLGX1 to MLGX5

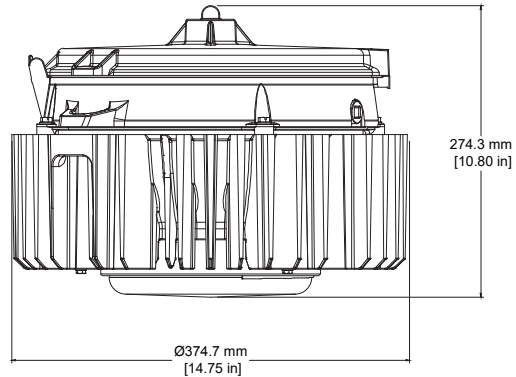
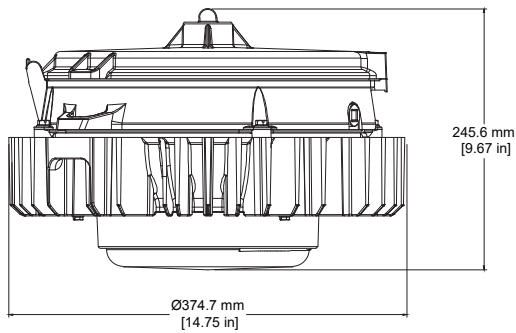
Driver Housing



Pendant



Watertight Pendant



Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

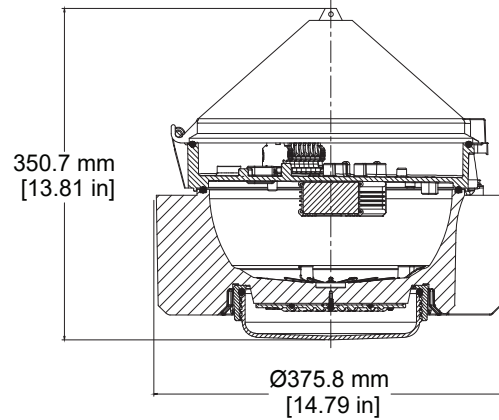
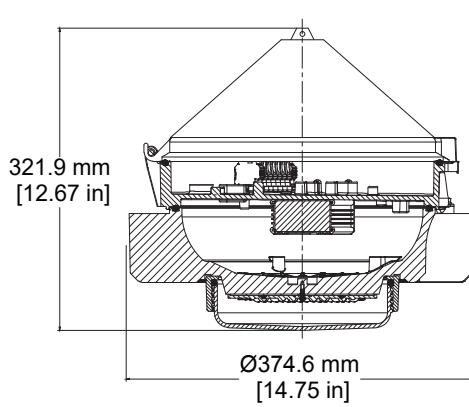
NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Dimensional Drawings — Driver Housing with Globe

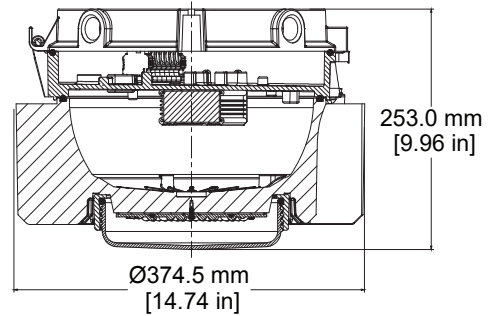
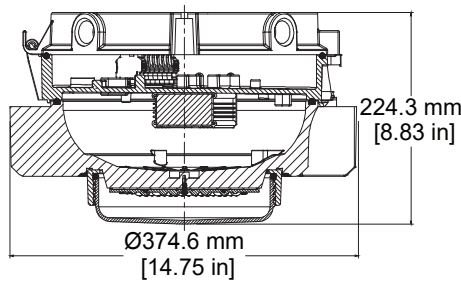
MLGL3 to MLGL9

MLGH6 to MLGH9 and MLGX1 to MLGX5

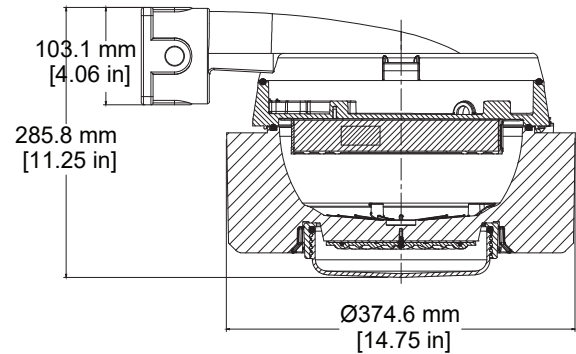
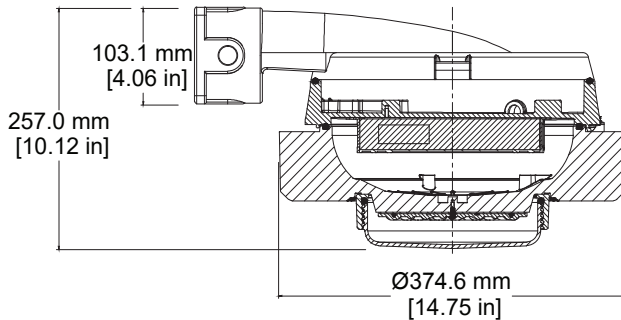
Pendant Cone



Ceiling



Wall Mount



Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

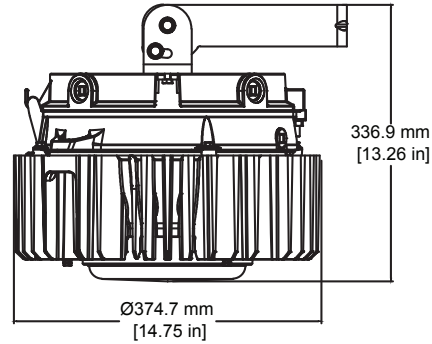
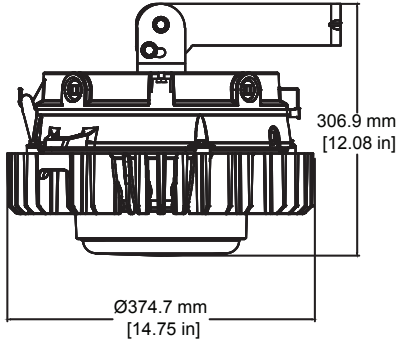
NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Dimensional Drawings — Driver Housing with Globe

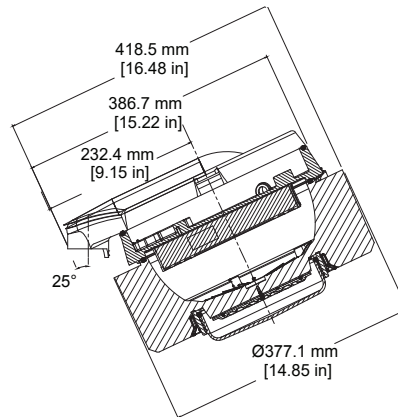
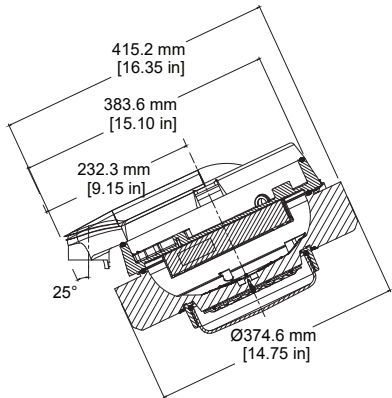
MLGL3 to MLGL9

MLGH6 to MLGH9 and MLGX1 to MLGX5

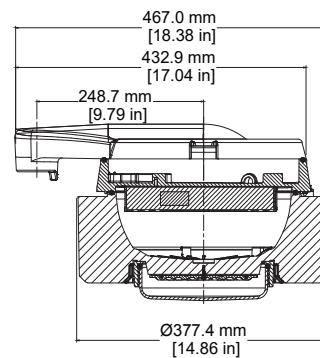
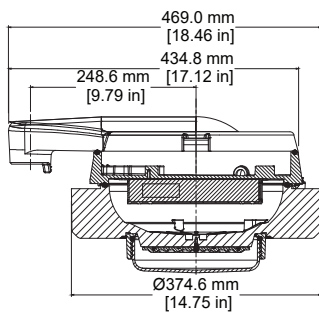
Trunnion Mount



25° Stanchion Mount



90° Stanchion Mount



Mercmaster™ LED Generation 3 Series Luminaires

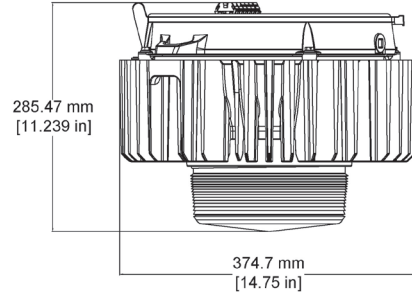
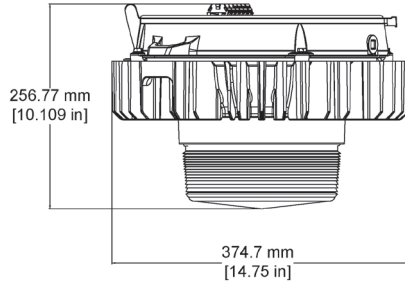
Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Dimensional Drawings — Driver Housing with Short Prismatic Glass Refractor ①

MLGL3 to MLGL9

MLGH6 to MLGH9 and MLGX1 to MLGX5



① For additional configurations dimensions, review the Product Drawing configurator page on the website.

Lighting

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAL33CP5**

Luminaire Lumens 3,783

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAL53CP5**

Luminaire Lumens 5,660

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAL73CP5**

Luminaire Lumens 8,524

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAH93CP5 / MLGAL93CP5**

Luminaire Lumens 10,845

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAH13CP5**

Luminaire Lumens 13,204

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **MLGAH33CP5**

Luminaire Lumens 15,937

POLAR CANDELA DISTRIBUTION

— Max CD - - - - - 45° H
- - - - - 0° H
- · - · - 90° H

A50

Visit our website at www.masteringled.com.
Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC Standard Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 AEx ec IIC | Zone 21 AEx tb IIIC | Class I, Zone 2 Ex ec II | Zone 21 Ex tb IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Group E, F, G | Class III | Class I, Zone 2 IIC | Zone 20 IIIC | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations
ATEX/IECEx Standard Model: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only)

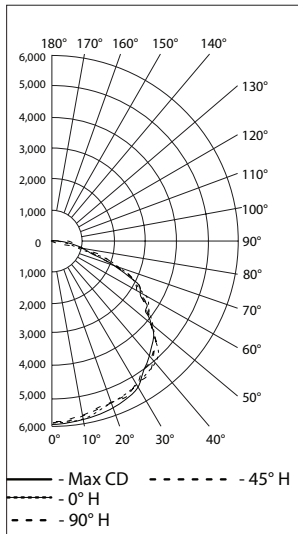
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: MLGAH63CP5

Luminaire Lumens 19,107

POLAR CANDELA DISTRIBUTION

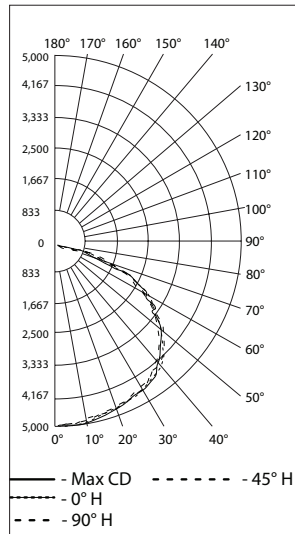


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: MLGAX1CP5BU

Luminaire Lumens 21,019

POLAR CANDELA DISTRIBUTION

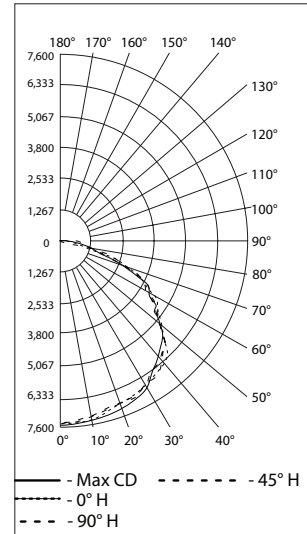


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: MLGAX5CP5BU

Luminaire Lumens 24,947

POLAR CANDELA DISTRIBUTION

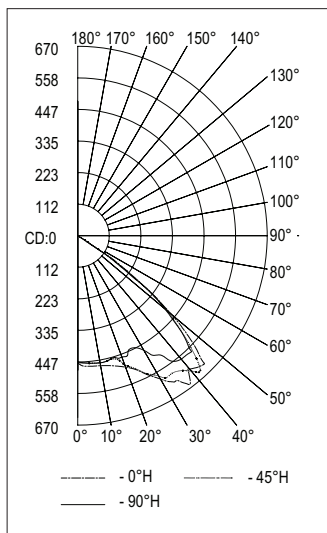


Type V, Clear Glass, 5000K CCT, Emergency

REPORT NUMBER: MLGL3CG5BUH+EMR

Luminaire Lumens 1,422

POLAR CANDELA DISTRIBUTION

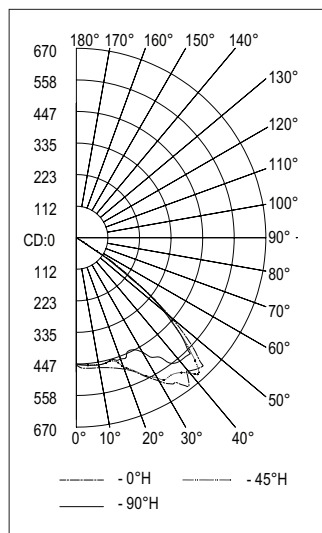


Type V, Clear Glass, 5000K CCT, Emergency

REPORT NUMBER: MLGL5CG5BUH+EMR

Luminaire Lumens 1,422

POLAR CANDELA DISTRIBUTION



Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases and vapors or combustible dusts are present
 - Marine and wet locations
 - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
 - Suitability includes use where there may be simultaneous exposure to flammable gases and vapors or combustible dusts
- Typical applications include:
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- Modular design provides thousands of combinations for maximum versatility.
- Design is suited for low mounting heights, from 2 m up to 9 m (7 ft up to 30 ft).
- Seven light outputs provide up to 17,800 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
3800	75-100W	MGZL3
5600	150-175W	MGZL5
7900	175-250W	MGZL7
10,000	300-350W	MGZL9
12,400	400W	MGZH1
14,800	450-500W	MGZH3
17,800	600W	MGZH6

- Optically integrated silicone encapsulant provides Zone 1 protection and an symmetrical IES Type V Wide light distribution.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white or 3000K warm white.
- Customize to the application requirements with three different globe options: clear and diffused polycarbonate, or clear glass.
- Six standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III and Mercmaster LED.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies installation.
- Rugged housing with superior thermal design translates to long luminaire life.
- Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
- Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Standard 6 kV surge protection.
- Heavy duty, high temperature silicone gaskets.
- Photometric data and electronic drawings available online.
- Ambient Temperature: -40 °C to +65 °C (-40 °F to +149 °F).
- Standard NPT threads with M20 adapters.
- LED L70B10 reported at 60,000 hours.
- Field replaceable globes and LED driver.



MGZL



MGZH

Warranty ②

- 10 year standard warranty.

Options

- Globe guard available, *purchase separately*.
- Safety cable available, *purchase separately*.
- Drain is available to divert water existing in the conduit system or from condensation, *purchase separately*.

Standard Materials

- Mounting hoods and housings: cast copperfree (4/10 of 1% max. aluminum).
- Gaskets: silicone rubber.
- All hardware and catch assemblies: stainless steel.
- Globe: polycarbonate or glass.
- Globe guard and safety cable: stainless steel wire.

Standard Finishes

- Mounting hoods and housings: gray epoxy powder coat finish, electrostatically applied for complete uniform protection.

NEC/CEC Certifications and Compliances

- UL Standards: UL 1598; UL 60079-0; UL 60079-7; UL 60079-18; UL 60079-31
- CSA Standards: CSA C22.2 No. 250.0; CAN/CSA C22.2 No. 60079-0; CAN/CSA C22.2 No. 60079-7; CAN/CSA C22.2 No. 60079-18; CAN/CSA C22.2 No. 60079-31
- ETL Report Number: 103764069DAL-001

ATEX/IECEX Certifications and Compliances

- Certification Type: Mercmaster Generation 3 LED Zone 1
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2G
 - Type of Protection: Ex eb mb IIC Gb
 - Temperature Class: T6 to T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +75 °C to +100 °C (+167 °F to +212 °F)
 - Ambient Temperature: -40 °C to +65 °C (-40 °F to +149 °F)
- ATEX Certificate: ITS18ATEX303680X
- IECEX Certificate: IECEX ITS 18.0041X_0
- Index of Protection according to EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: RG0 with diffused polycarbonate, RG1 with clear glass or polycarbonate

Related Products

- Mercmaster LED Generation 3 Series Luminaires
- Industrial Mercmaster LED Generation 3 Series Luminaires
- Mercmaster LED Low Profile Luminaires

① Nominal lumen value for 5000K, clear glass globe, Type V Wide. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

② For warranty details go to www.appleton.emerson.com.

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Illustrated Features

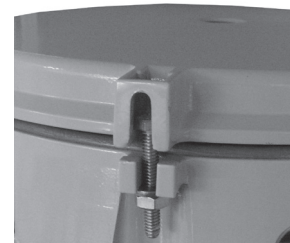
LED Flexibility and Modular Design



Encapsulated LED Components

- Ex mb encapsulation method provides Zone 1 protection with low weight and superior component reliability.

Safety Features



Choose from **three color temperatures** (CCT): 3000K, 4000K, and 5000K.

Six mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.

Three globes; clear and diffused polycarbonate, or clear glass globe provide just the right level of diffusion.

Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres.

Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

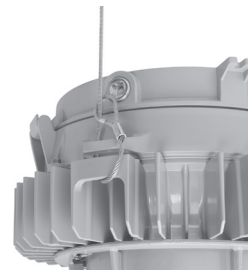
Designed for the Environment



Driver housing design incorporates separate sections for the terminal block and driver.

The efficient **thermal design** ensures reliable heat transfer from the LED assembly out via the heatsink and the cast, epoxy powder coat, aluminum housings.

Safety Cable



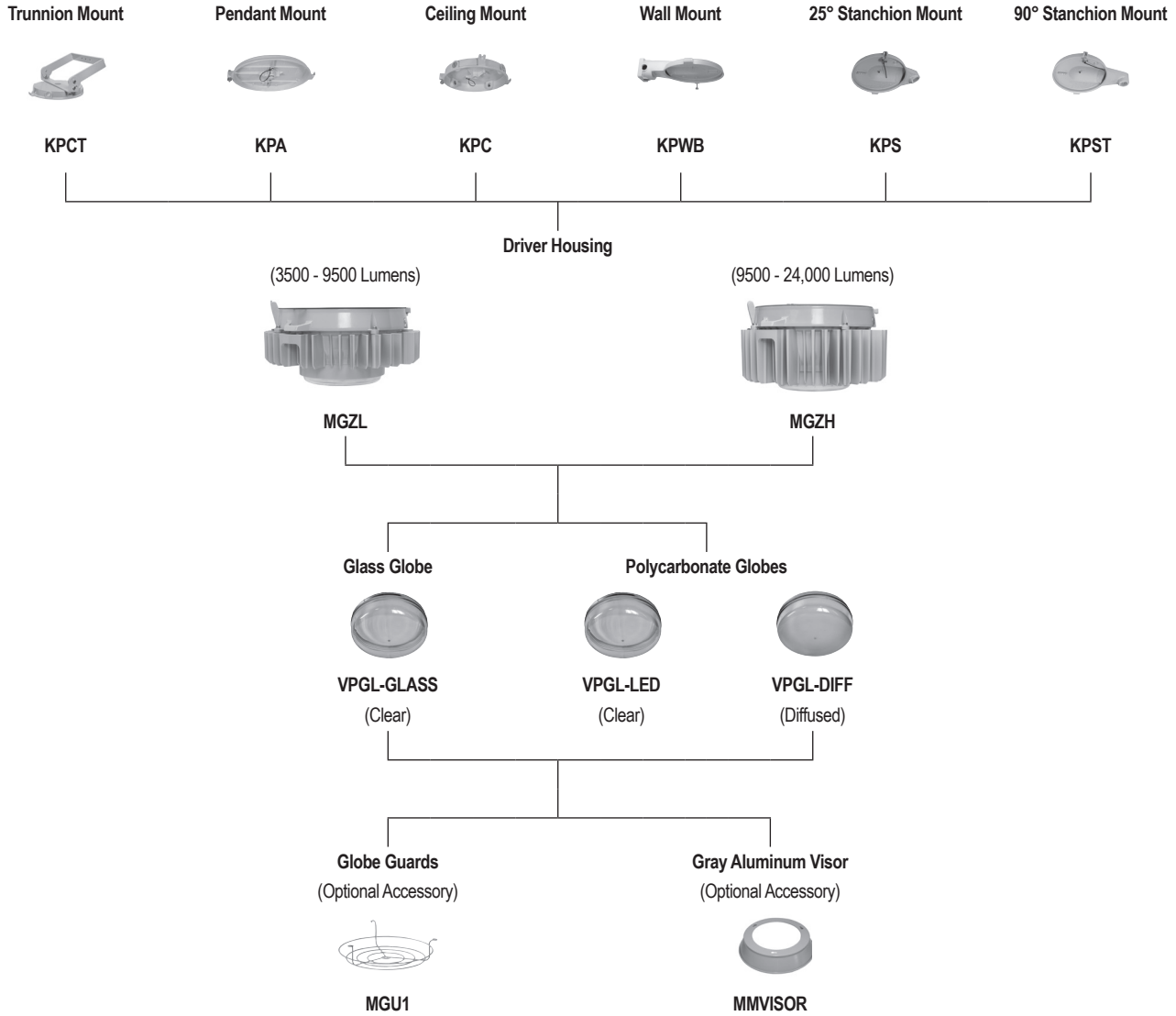
Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Family Tree — Mercmaster™ LED Generation 3 Series Zone 1 Luminaires



Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

MGZ Series Prefix: MGZ - Mercmaster LED Generation 3 Zone 1 Series	A Mounting: A - Pendant C - Ceiling R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion W - Wall Blank - Without Hood	L3 Lumen Level (nominal): ② L3 - 3,500 L5 - 5,500 L7 - 7,500 L9 - 9,500 H1 - 11,500 H3 - 13,500 H6 - 17,500	2 Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20	C Color Temperature: C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K	P Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ③	W Light Distribution Pattern: W - Type V Wide	BU Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc
--	--	--	--	---	---	---	---

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

② For lumen output information, see Lumen Output (Efficacy) Table in catalog pages.

③ Guards for the glass globes are ordered separately. See the Accessories section in the catalog pages for more information.

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Lumen Output (Efficacy) ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
MGZL3	75-100W	Type V Wide	3000K	80	3,258	109	4000K	80	3,356	112	5000K	70	3,636	121
MGZL5	150-175W	Type V Wide	3000K	80	4,843	105	4000K	80	4,989	108	5000K	70	5,405	118
MGZL7	175-250W	Type V Wide	3000K	80	6,748	118	4000K	80	7,426	130	5000K	70	7,616	134
MGZL9	300-350W	Type V Wide	3000K	80	8,705	116	4000K	80	9,580	128	5000K	70	9,826	131
MGZH1	400W	Type V Wide	3000K	80	10,537	115	4000K	80	11,596	126	5000K	70	11,893	129
MGZH3	450-500W	Type V Wide	3000K	80	12,514	113	4000K	80	13,771	124	5000K	70	14,124	127
MGZH6	600W	Type V Wide	3000K	80	15,174	108	4000K	80	16,698	119	5000K	70	17,126	122
Diffused Polycarbonate Globe														
MGZL3	75-100W	Type V Wide	3000K	80	3,130	104	4000K	80	3,225	108	5000K	70	3,494	116
MGZL5	150-175W	Type V Wide	3000K	80	4,653	101	4000K	80	4,794	104	5000K	70	5,193	113
MGZL7	175-250W	Type V Wide	3000K	80	6,486	114	4000K	80	7,138	125	5000K	70	7,321	128
MGZL9	300-350W	Type V Wide	3000K	80	8,345	111	4000K	80	9,184	122	5000K	70	9,419	126
MGZH1	400W	Type V Wide	3000K	80	10,101	110	4000K	80	11,116	121	5000K	70	11,401	124
MGZH3	450-500W	Type V Wide	3000K	80	11,998	108	4000K	80	13,204	119	5000K	70	13,542	122
MGZH6	600W	Type V Wide	3000K	80	14,538	104	4000K	80	15,998	114	5000K	70	16,409	117
Clear Glass Globe														
MGZL3	75-100W	Type V Wide	3000K	80	3,411	114	4000K	80	3,514	117	5000K	70	3,807	127
MGZL5	150-175W	Type V Wide	3000K	80	5,070	110	4000K	80	5,223	114	5000K	70	5,659	123
MGZL7	175-250W	Type V Wide	3000K	80	7,059	124	4000K	80	7,768	136	5000K	70	7,967	140
MGZL9	300-350W	Type V Wide	3000K	80	9,100	121	4000K	80	10,014	134	5000K	70	10,270	137
MGZH1	400W	Type V Wide	3000K	80	11,012	120	4000K	80	12,118	132	5000K	70	12,429	135
MGZH3	450-500W	Type V Wide	3000K	80	13,078	118	4000K	80	14,392	130	5000K	70	14,761	133
MGZH6	600W	Type V Wide	3000K	80	15,836	113	4000K	80	17,427	124	5000K	70	17,874	128

① All lumen values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Electrical Specifications ①					
Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
MGZL3	120 Vac	33	0.3	0.97	<20
	277 Vac	33	0.1	0.90	<20
	170 Vdc	33	0.2	N/A	N/A
	300 Vdc	33	0.1	N/A	N/A
MGZL5	120 Vac	46	0.4	0.98	<20
	277 Vac	45	0.2	0.94	<20
	170 Vdc	46	0.3	N/A	N/A
	300 Vdc	46	0.2	N/A	N/A
MGZL7	120 Vac	65	0.6	0.98	<20
	277 Vac	64	0.3	0.90	<20
	170 Vdc	64	0.4	N/A	N/A
	300 Vdc	64	0.2	N/A	N/A
MGZL9	120 Vac	82	0.7	0.98	<20
	277 Vac	80	0.3	0.93	<20
	170 Vdc	81	0.5	N/A	N/A
	300 Vdc	80	0.3	N/A	N/A
MGZH1	120 Vac	101	0.9	0.99	<20
	277 Vac	98	0.4	0.94	<20
	170 Vdc	99	0.6	N/A	N/A
	300 Vdc	98	0.3	N/A	N/A
MGZH3	120 Vac	121	1	0.98	<20
	277 Vac	116	0.5	0.90	<20
	170 Vdc	118	0.7	N/A	N/A
	300 Vdc	117	0.4	N/A	N/A
MGZH6	120 Vac	141	1.2	0.99	<20
	277 Vac	135	0.5	0.92	<20
	170 Vdc	138	0.8	N/A	N/A
	300 Vdc	136	0.5	N/A	N/A

① All values are typical (tolerance +/-10%).

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Temperature Codes ①

Model	Gas — T Rating			Dust — Surface T°		
	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)
NEC/CEC (AEx/Ex)						
MGZL3	T6	T6	T5	T6	T6	T6
MGZL5	T6	T6	T5	T6	T6	T5
MGZL7	T6	T5	T5	T6	T6	T6
MGZL9	T6	T5	T4	T6	T6	T6
MGZH1	T5	T4	T4	T6	T6	T5
MGZH3	T4	T4	T4	T6	T5	T5
MGZH6	T4	T4	T4	T6	T5	T5
ATEX/IECEx						
MGZL3	T6	T6	T5	+75 °C (+167 °F)	+75 °C (+167 °F)	+85 °C (+185 °F)
MGZL5	T6	T6	T5	+75 °C (+167 °F)	+75 °C (+167 °F)	+85 °C (+185 °F)
MGZL7	T6	T5	T5	+75 °C (+167 °F)	+85 °C (+185 °F)	+85 °C (+185 °F)
MGZL9	T6	T5	T4	+75 °C (+167 °F)	+85 °C (+185 °F)	+85 °C (+185 °F)
MGZH1	T5	T4	T4	+85 °C (+185 °F)	+85 °C (+185 °F)	+100 °C (+212 °F)
MGZH3	T4	T4	T4	+85 °C (+185 °F)	+100 °C (+212 °F)	+100 °C (+212 °F)
MGZH6	T4	T4	T4	+85 °C (+185 °F)	+100 °C (+212 °F)	+100 °C (+212 °F)

"T" Numbers Represent the Maximum Internal Temperature ② or Maximum Surface Temperature ③

"T" #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).








② T numbers represent the maximum internal temperature for Class I, Zone 1 locations designated by the NEC, and Zone 1 (Gas) locations as designated by the IEC.

③ T numbers and surface temperatures represent the maximum surface temperature under a dust blanket for Class I, Zone 21 as designated by the NEC, and Zone 21 (Dust) locations as designated by the IEC.

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22








Mounting Hoods			
	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT	1.0 (2.3)	KPA-75
	1" NPT		KPA-100
	M20		KPA-M20
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.5)	KPCH-75
	1" NPT		KPCH-100
	M20		KPCH-M20
Trunnion — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	6.1 (13.4)	KPCT-75
	1" NPT		KPCT-100
	M20		KPCT-M20
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.4 (3.0)	KPC-75
	1" NPT		KPC-100
	M20		KPC-M20
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.8 (4.0)	KPWB-75
	1" NPT		KPWB-100
	M20		KPWB-M20
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Accessories and Replacement Parts

Description	Weight in kg (lbs)	Catalog Number
Globes		
 Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
 Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
 Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard		
 Globe Guard	0.2 (0.4)	MGU1
Visor		
 Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	MMVISOR
Safety Cable		
 Stainless steel	0.2 (0.4)	LEDSC
Drain Plug		
 76 mm (3") long, 1/2" NPT trade size drain assembly used to divert water existing in the conduit system	0.4 (0.9)	LEDDR3

Replacement Drivers

Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number
MGZL3	BU	30 Watt	500mA	APMZ050C135UD50
MGZL5	BU	46 Watt	780mA	APMZ050C135UD78
MGZL7	BU	57 Watt	360mA	APMZ100C090UD36
MGZL9	BU	75 Watt	480mA	APMZ100C090UD48
MGZH1	BU	92 Watt	595mA	APMZ100C090UD59
MGZH3	BU	111 Watt	720mA	APMZ150C135UD72
MGZH6	BU	140 Watt	900mA	APMZ150C135UD90

Luminaire Weights

Description	Weight in kg (lbs)
MGZL Housing	9.5 (21.0)
MGZH Housing	12.5 (27.5)

Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

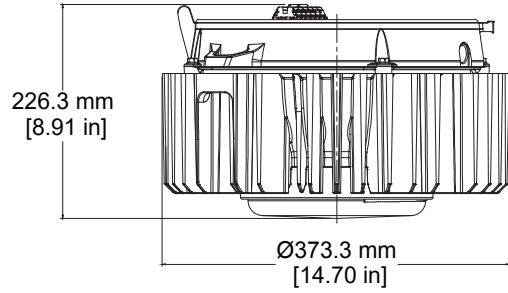
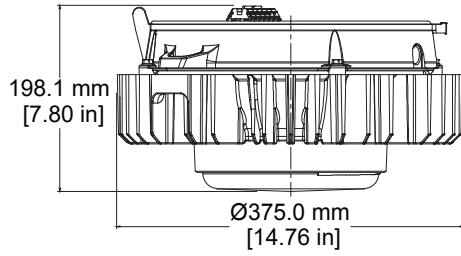
NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Dimensional Drawings

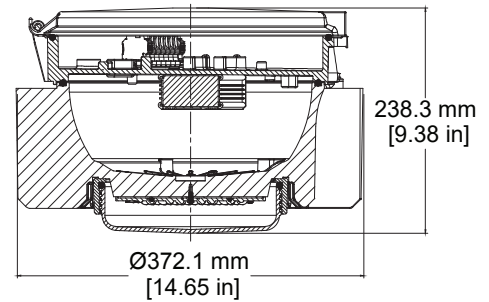
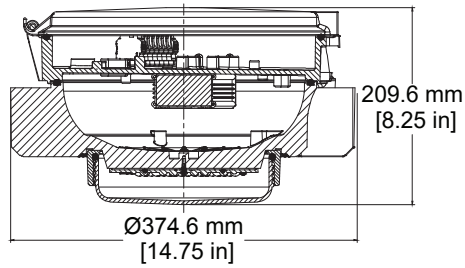
MGZL

MGZH

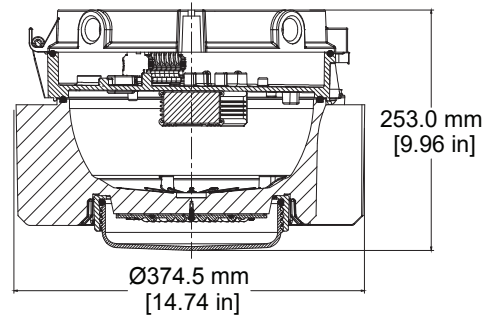
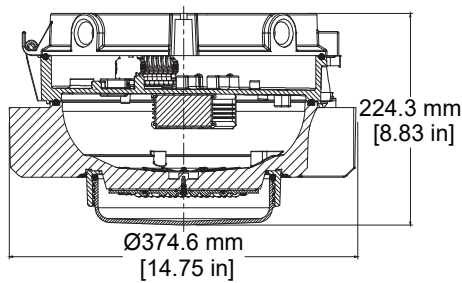
Driver Housing



Pendant Mount



Ceiling Mount



Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

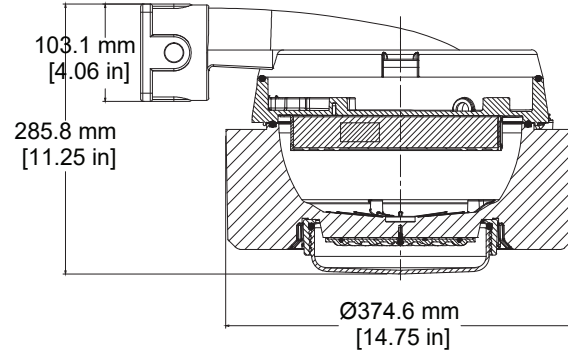
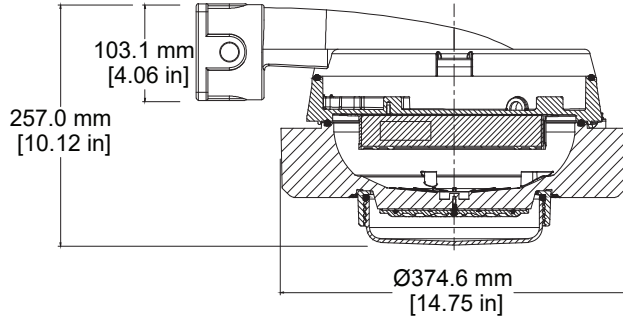
NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Dimensional Drawings

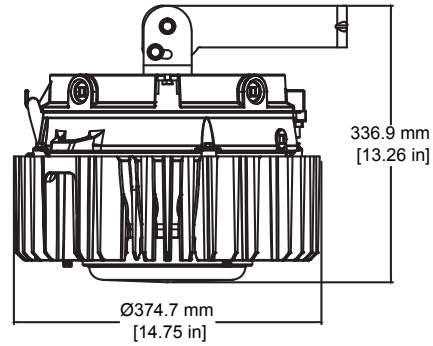
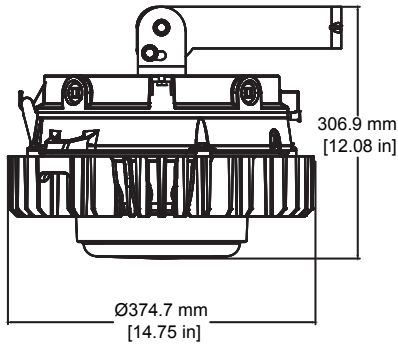
MGZL

MGZH

Wall Mount



Trunnion Mount



Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

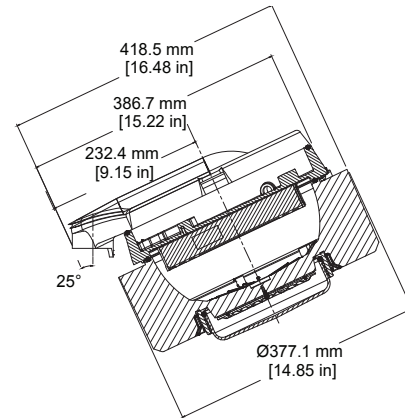
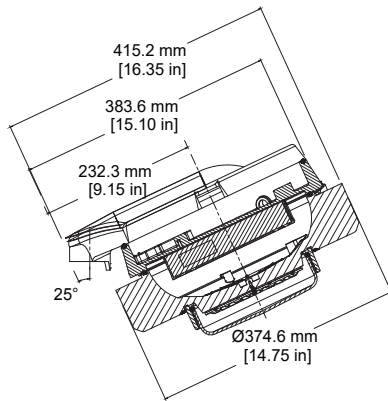
NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Dimensional Drawings

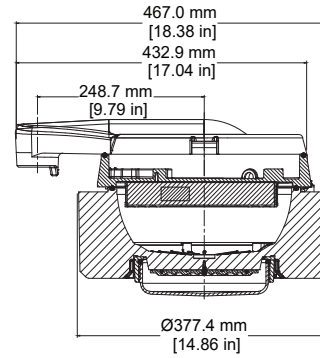
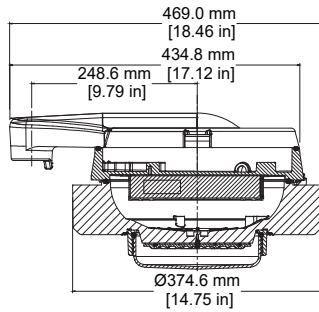
MGZL

MGZH

25° Stanchion Mount



90° Stanchion Mount



Mercmaster™ LED Generation 3 Series Zone 1 Luminaires

Enclosed and Gasketed Fixtures

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

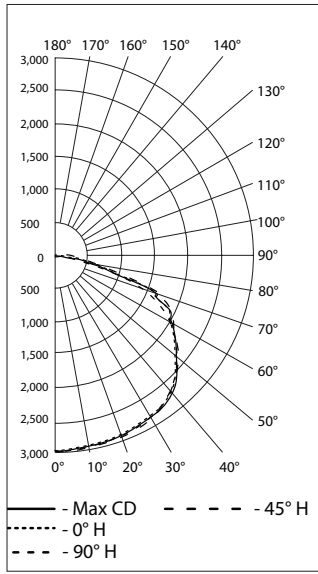
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZH1CDWBU**

Luminaire Lumens 11,500

POLAR CANDELA DISTRIBUTION

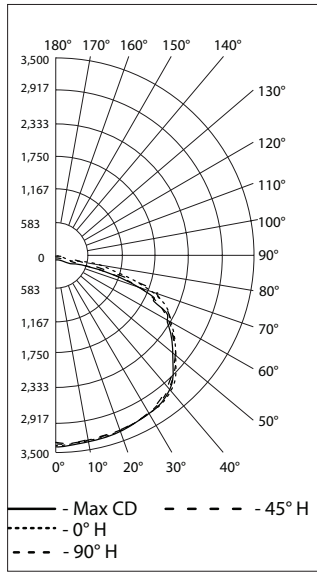


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZH3CDWBU**

Luminaire Lumens 13,500

POLAR CANDELA DISTRIBUTION

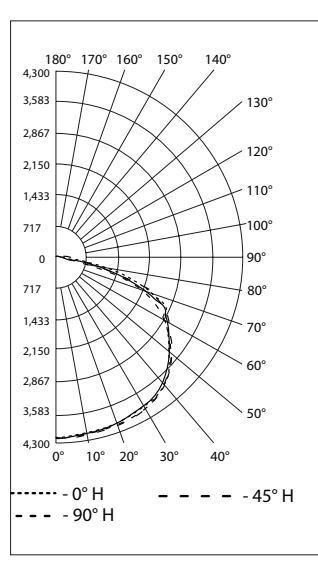


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZH6CDWBU**

Luminaire Lumens 17,500

POLAR CANDELA DISTRIBUTION

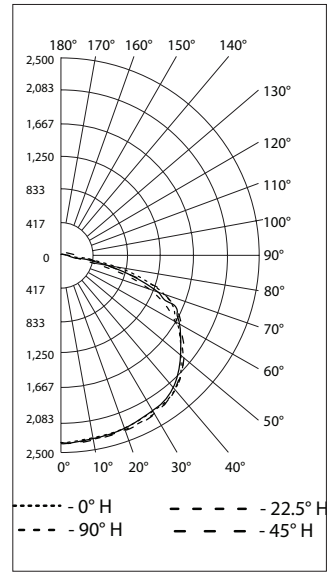


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZL9CDWBU**

Luminaire Lumens 9,500

POLAR CANDELA DISTRIBUTION

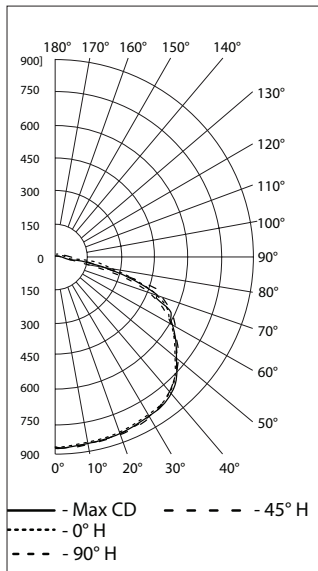


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZL3CDWBU**

Luminaire Lumens 3,500

POLAR CANDELA DISTRIBUTION

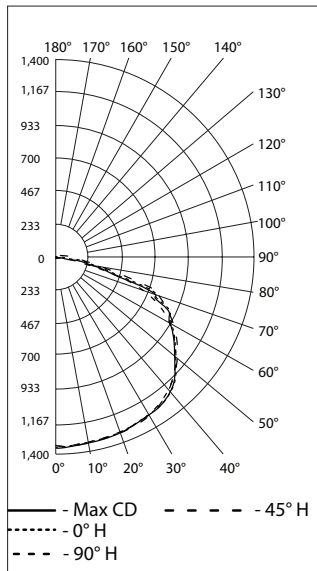


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZL5CDWBU**

Luminaire Lumens 5,500

POLAR CANDELA DISTRIBUTION

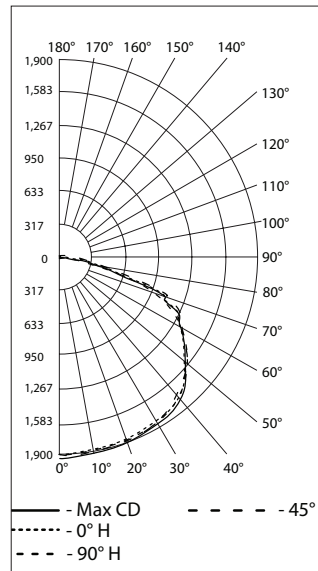


Type V Wide, Diffused Polycarbonate 5000K CCT

REPORT NUMBER: **MGZL7CDWBU**

Luminaire Lumens 7,000

POLAR CANDELA DISTRIBUTION



Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts are present including simultaneous exposure
 - Marine and wet locations
 - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
- Typical applications include:
 - Walkways/catwalks
 - Stairwells
 - Grain elevators
 - Tunnels
 - Pipe racks
 - Offshore rigs
 - Vessel lighting
 - Cooling towers
 - Processing areas
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- All Models:
 - Compact light weight low profile design is suited for low mounting heights.
 - Four light output levels provide up to 7500 lumens.
- | Standard Mode
Nominal Lumens ① | HID Equivalent | Model |
|-----------------------------------|----------------|--------|
| 3500 | 70-100W | MLLED2 |
| 4750 | 100-150W | MLLED3 |
| 6000 | 150-175W | MLLED4 |
| 7460 | 175-250W | MLLED7 |
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4000K neutral white (80 CRI min), 3000K warm white (80 CRI min), 1800K high pressure sodium (70 CRI min), or yellow amber.
 - Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III HID, Mercmaster™ Premium LED and Mercmaster™ Generation 3.
 - Retrofit adapters for Crouse Hinds™ †, Mercmaster™ II HID, and Killark™ ‡ available. See Mercmaster™ Adapters.
 - Watertight Pendant Hood available to address water ingress into luminaire via conduit.
 - Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
 - Rugged housing with superior thermal design translates to long luminaire life.
 - Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment.
 - Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression.



MLLED with Clear Globe



MLLED with Prismatic Refractor

- Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Reported L70:

+25 °C (+77 °F)	Reported	> 60000
	Calculated	> 200000
+65 °C (+149 °F)	Reported	> 60000
	Calculated	> 200000

- Photometric data and electronic drawings available upon request.
- Standard Model:
 - Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
 - Voltages:
 - BU: 100-277 Vac or 125-300 Vdc
 - BH: 347-480 Vac
 - B2: 24-48 Vdc
 - Ambient Temperature:
 - BU and B2: -40 °C to +65 °C (-40 °F to +149 °F) standard; -50 °C to +65 °C (-58 °F to +149 °F) cold temperature option
 - BH: -40 °C to +65 °C (-40 °F to +149 °F) standard
 - Field replaceable globes and LED driver.
 - Standard 6 kV/3 kA surge protection.
- Emergency Battery Backup Model:
 - Provides up to 1700 lumens of illumination for 90 minutes or 1000 lumens of illumination for 180 minutes of emergency lighting with clear lens.
 - Functional diagnostic test self-initiates every 14 days after initial start up.
 - Duration test is automatically performed once per year.
 - Green and Red LED lamps indicate charging status and provide fault warning.
 - Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance in hazardous locations.
 - Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate, or clear glass.
 - Ambient Temperature: BU: MLLED2/MLLED3/MLLED4: -20 °C to +55 °C (-4 °F to +131 °F). MLLED7: -20 °C to +50 °C (-4 °F to +122 °F).
 - Field replaceable globes, battery management module (BMM), battery pack and LED driver.

① Nominal lumen value for 5000K, clear glass globe Type V Wide. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

‡ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚡
ATEX/IECEx: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Warranty

- 10 year standard warranty.

Controls

- Dimming:
 - Mercmaster LED Low Profile Luminaires offer a two-wire, 0-10V variable dimming input port for controlling the light output:
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- All Models:
 - Globe guard available, *purchase separately*.
 - Safety cable available, *purchase separately*.
 - For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies.
- Standard Model:
 - Refractor guard available, *purchase separately*.
 - All NEC/CEC Certified Mercmaster Luminaires have provision for fusing; add suffix **-F** to the catalog number, see *Catalog Numbering Guide for details*.
 - All Mercmaster LED Low Profile Luminaires are available with a cold temperature option; add suffix **-C** to the catalog number, see *Catalog Numbering Guide for details*.
 - Photocontrols are available and are configured to your operating voltage. Add suffix **-1** for 120V, **-2** for 208-277V.
 - Colored Glass globes available, purchase separately: Amber (VPGLGLASSAM), Blue (VPGLGLASSBL), Red (VPGLGLASSRE), Green (VPGLGLASSGR).

Standard Materials

- Mounting hoods and housing: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Globe guard, short refractor guard and safety cable: stainless steel wire

Standard Finishes

- Mounting hoods, driver housing and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- All Models:
 - UL Standard: UL 50E; UL 844; UL 1598; UL 8750
 - CSA Standard: C22.2 No. 94.2; C22.2 No. 250.0-08; C22.2 No. 137 C22.2 No. 250.13
 - ANSI/IEC Standard: 60529
- Standard Model:
 - CSA Standard: C22.2 No. 60079-0 ; C22.2 No. 60079-7; C22.2 No. 60079-31; C22.2 No. 60079-18
 - cCSAus Listed: 164460, Certificate Number: 70134063
 - Vibration Rating (ceiling mount): 10G, 2 hours, 3 axis at first mode resonant frequency
- Emergency Battery Backup Model:
 - UL Standard: UL 924
 - CSA Standard: C22.2 No. 141
 - cCSAus: 164460, Certificate Number: 70182641
 - Vibration Rating (trunnion mount): 5G, 2 hours, 3 axis at first mode resonant frequency

ATEX/IECEx Certifications and Compliances

- Standard Model:
 - Certification Type: Mercmaster™ Low Profile
 - Gas: Zones 2
 - Conforming to ATEX 2014/34/EU: II 3 G
 - Type of Protection: Ex ec IIC T* Gc
 - Temperature Class: T5 to T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIC T**C Db, Ex tc IIC T**C Dc
 - Surface Temperature: +66 °C to +88 °C (+151 °F to +190 °F)
 - Ambient Temperature: -50 °C up to +65 °C (-58 °F up to +149 °F)
 - ATEX Certificates:
 - Zone 21: UL 22ATEX2672X
 - Zone 2, 22: UL 22ATEX2682X
 - IECEx Certificate: IECEx UL 22.0003X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK08
 - Photobiological Safety, IEC 62778 and IEC 62471: RG0

ABS Certifications

- Standard Model: 18-HS1714308-PDA
- Emergency Battery Backup Model: 22-2207901-PDA

International Dark-Sky Association

- Standard Model:
 - IDA Dark-Sky Approved when ordering [I]MLED[A/B/C/D/RW] [2/3/4]W[P/D/G]5Bxxx with MMVISOR accessory

Chile Zoning Compliant

- Zone A Compliant when ordering [I]MLEDx xxA[P/D/G]5Bxxx
- Zone B Compliant when ordering [I]MLEDx xx[S/A][P/D/G]5Bxxx

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires
- Industrial Mercmaster LED Low Profile Luminaires
- Mercmaster LED Generation 3 Series Luminaires
- Industrial Mercmaster LED Generation 3 Series Luminaires

☞ For warranty details go to www.appleton.emerson.com.

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Illustrated Features — All Models



Group Lighting Controls:
Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller by daisy chaining the dimming leads from the group of lights.



Bulkhead Application:
When using the surface/ceiling mount, the Mercmaster LED Low Profile can be mounted up to 90 degrees with no dust accumulation.



Watertight Pendant Hood:
Provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.



Latch Assembly and Hinge:
Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.



Field Replaceable Parts:
Replacement glass and polycarbonate globes and drivers available — allowing for easy maintenance.



Visor (optional):
When installed correctly, maintains light distribution type and ensures luminaire meets dark sky requirements.



Retrofit Adapters (optional):
Seamlessly retrofit to pre-existing Crouse Hinds™ ⚡, Mercmaster II, and Killark™ ⚡ HID mounting hoods.



Safety Cable (optional): Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

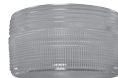
Illustrated Features — Standard Model



Photocell (optional):
Factory Installed in the Mounting Hood. Available for all fixtures except cone and ceiling mount. Provides continuous ON-OFF dusk-to-dawn control.



Fuses (optional):
Fuses factory installed in luminaire housing.



Prismatic Refractors:
Heat-resistant refractor threads directly into fixture housing and seal against a high-temperature silicone rubber gasket.

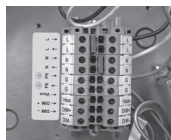


Colored Glass Globes (optional):
Amber, Blue, Red, Green are available and field installable for applications that require specific sections to be highlighted.

Illustrated Features — Emergency Battery Backup Model



Quick Disconnect:
Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance.



Field Changeable Emergency Setting:
Allows user to switch the battery system setting as needed in the field to go from 90 to 180 min or 180 to 90 min battery.



Battery (optional):
Field replaceable battery pack and battery management module — allowing for easy maintenance.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

⚡ Killark is a registered trademark of Hubbell Incorporated.

⚡ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Mercmaster™ LED Low Profile Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

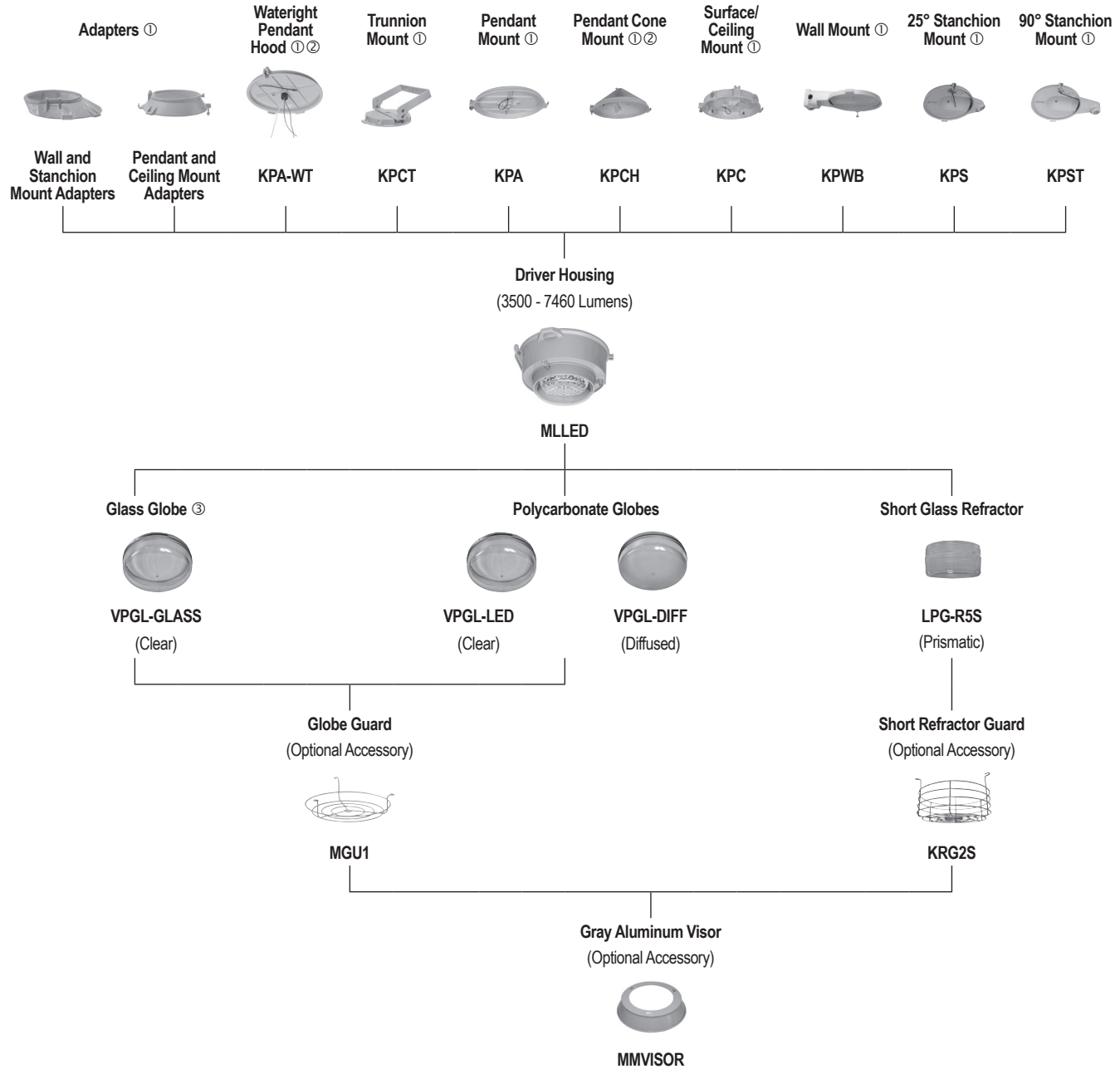
NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |

Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Family Tree — Mercmaster™ LED Low Profile Series Luminaires — Standard Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

③ Colored glass globes can be ordered separately, see Accessories and Replacement Parts table for more details.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

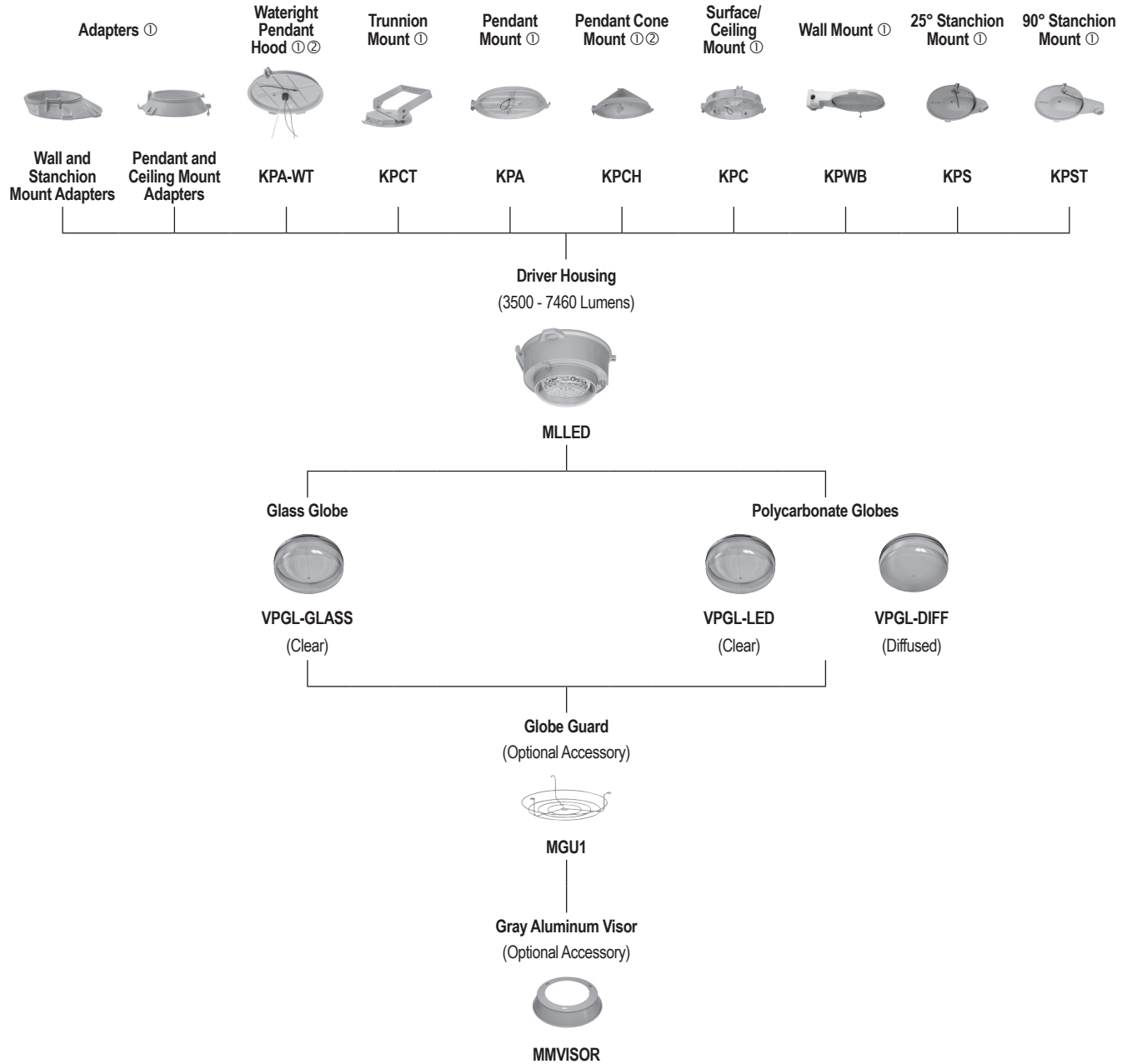
With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

Family Tree — Mercmaster™ LED Low Profile Series Luminaires — Emergency Battery Backup Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚡
ATEX/IECEx: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Order Using Catalog Numbering Guide — Mercmaster™ LED Low Profile Series Luminaires — Standard Model.

MLLED	A	4	2	C	P	5	BU	F	C	1
Series Prefix: MLLED - NEC/CEC and IECEx/ ATEX Certified Mercmaster LED Low Profile Series	Mounting:		Hub Size: ① ⑦ 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 † Blank - No hub if using adapter or ordering driver housing only (no mounting hood)	Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K S - HPS, 1800K CCT A - Yellow Amber		Light Distribution Pattern: 5 - Type V	Voltage: ⑧ ⑨ BU - 100-277 Vac, 50/60 Hz; 125-300 Vdc BH - 347-480 Vac, 50/60 Hz † B2 - 24-48 Vdc		Operating Temperature: ⑩ C - Cold Temperature -50 °C (-58 °F) Min. Ambient Blank - Standard -40 °C (-40 °F) Min. Ambient	Options: 1 - Photocontrol 120V ⑪ 2 - Photocontrol 208- 277V ⑫ Blank - No Options Chosen
		Lumen (nominal): ② 2 - 3,300 3 - 4,400 4 - 5,500 7 - 7,500 ⑬		Globe Material: ③ P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ④ J - Glass Prismatic Refractor			Fusing: ④ F - Fusing Blank - No fusing			

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guards for the refractor and globes are ordered separately. See the Accessories for more information.

④ Fusing only permitted for cCSAus rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing. For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire.

⑤ Luminaires with photocontrol are not rated IP66/67, Marine Outside Type (Salt Water), or Class II and voids the NEMA ratings on the fixture but remains suitable for use in wet locations. Photocontrol available for 120-277 Vac only.

⑥ Ceiling and pendant cone hood mounted luminaires are not designed to use the PC2D photocontrol. Ceiling mounts can be used with a FS/FD box with a photocontrol. Contact your local sales representative for more information.

⑦ Hub size does not apply to luminaires ordered with adapters.

⑧ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for BU/BH voltage options at standard temperature and 0% to 100% dimming curve for B2 voltage or cold temperature models.

⑨ Cold temperature option is available for use with clear glass globe, and BU (100-277 Vac), or B2 (24-48 Vdc) voltages only. Not available with Photocontrol.

⑩ Operating temperature range is -40 °C to +60 °C (-40 °F to +140 °F) for BU/BH standard; -50 °C to +60 °C (-58 °F to +140 °F) for BU/BH cold temperature; -40 °C to +65 °C (-40 °F to +149 °F) for B2 standard; -40 °C to +65 °C (-58 °F to +149 °F) for B2 cold temperature.

† Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters, watertight pendant hood and BH Voltage only certified for cCSAus. Adapters and BH Voltage are not available for use with photocontrol.

↔ Killark is a registered trademark of Hubbell Incorporated.

→ Crouse-Hinds is a registered trademark of Cooper Industries, Inc. a wholly owned subsidiary of the Eaton Corporation plc.

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Mercmaster™ LED Low Profile Series Luminaires — Emergency Battery Backup Model

<p>MLLED</p> <p>Series Prefix: MLLED - NEC/ CEC Certified Mercmaster LED Low Profile Series</p>	<p>A</p> <p>Mounting: A - Pendant B - Watertight Pendant ▲ C - Surface/Ceiling ✦ D - Pendant Cone ▲ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion ✦ K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲④ V - Mercmaster II Adapter, Stanchion or Wall ▲④ W - Wall ✦ X - Crouse Hinds™ ✦ Adapter, Ceiling or Pendant ▲ Y - Crouse Hinds™ ✦ Adapter, Stanchion or Wall ▲ Blank - No mounting hood</p>	<p>4</p> <p>Lumen (nominal): ② 2 - 3,300 3 - 4,400 4 - 5,500 7 - 7,500</p>	<p>2</p> <p>Hub Size: ① ④ 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 ✦ Blank - No hub if using adapter or ordering driver housing only (no mounting hood)</p>	<p>C</p> <p>Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K S - HPS, 1800K CCT A - Yellow Amber</p>	<p>P</p> <p>Globe Material: ③ P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe</p>	<p>5</p> <p>Light Distribution Pattern: 5 - Type V</p>	<p>BU</p> <p>Voltage: ⑤ BU - 120-277 Vac, 50/60 Hz</p>	<p>H</p> <p>Emergency: ⑤ H - 90 Minutes E - 180 Minutes</p>
--	--	---	--	--	---	---	---	--

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guard for the globe must be ordered separately. See the Accessories for more information.

④ Hub size does not apply to luminaires ordered with adapters.

⑤ All luminaires ship standard with a two-wire, 0-10V variable dimming input port for controlling the light output from 10% to 100% of the rated lumen output. Luminaire cannot be dimmed in emergency mode.

✦ Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters and watertight pendant hood only certified for cCSAus.

✦ Killark is a registered trademark of Hubbell Incorporated.

✦ Crouse-Hinds is a registered trademark of Cooper Industries, Inc. a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

ATEX/IECEX: Zones 2 – 21 and 22

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
MLLED2	70-100W	Type V	3000K	80	2900	104	4000K	80	3000	107	5000K	70	3400	121
MLLED3	100-150W	Type V	3000K	80	3850	101	4000K	80	4000	105	5000K	70	4550	120
MLLED4	150-175W	Type V	3000K	80	4850	101	4000K	80	5000	104	5000K	70	5700	119
MLLED7	175-250W	Type V	3000K	80	5480	107	4000K	80	5670	111	5000K	70	7080	139
MLLED2	70-100W	Type V	1800K	70	2570	76	Amber	N/A	2240	66				
MLLED3	100-150W	Type V	1800K	70	2955	74	Amber	N/A	2570	64				
MLLED4	150-175W	Type V	1800K	70	3540	75	Amber	N/A	3060	64				
MLLED7	175-250W	Type V	1800K	70	4400	88	Amber	N/A	3850	77				
Diffused Polycarbonate Globe														
MLLED2	70-100W	Type V	3000K	80	2850	102	4000K	80	3000	107	5000K	70	3400	121
MLLED3	100-150W	Type V	3000K	80	3800	100	4000K	80	4000	105	5000K	70	4500	118
MLLED4	150-175W	Type V	3000K	80	4700	98	4000K	80	5000	104	5000K	70	5700	119
MLLED7	175-250W	Type V	3000K	80	5390	106	4000K	80	5580	109	5000K	70	6960	136
MLLED2	70-100W	Type V	1800K	70	2540	75	Amber	N/A	2220	65				
MLLED3	100-150W	Type V	1800K	70	2920	73	Amber	N/A	2530	63				
MLLED4	150-175W	Type V	1800K	70	3490	73	Amber	N/A	3020	64				
MLLED7	175-250W	Type V	1800K	70	4300	86	Amber	N/A	3780	76				
Clear Glass Globe														
MLLED2	70-100W	Type V	3000K	80	3000	107	4000K	80	3100	111	5000K	70	3500	125
MLLED3	100-150W	Type V	3000K	80	3975	105	4000K	80	4175	110	5000K	70	4750	125
MLLED4	150-175W	Type V	3000K	80	5000	104	4000K	80	5300	110	5000K	70	6000	125
MLLED7	175-250W	Type V	3000K	80	5720	112	4000K	80	5920	116	5000K	70	7460	146
MLLED2	70-100W	Type V	1800K	70	2685	79	Amber	N/A	2350	69				
MLLED3	100-150W	Type V	1800K	70	3090	77	Amber	N/A	2690	67				
MLLED4	150-175W	Type V	1800K	70	3600	75	Amber	N/A	3200	67				
MLLED7	175-250W	Type V	1800K	70	4600	92	Amber	N/A	4050	81				
Glass Prismatic Refractor														
MLLED2	70-100W	Type V	3000K	80	2835	101	4000K	80	3000	107	5000K	70	3450	123
MLLED3	100-150W	Type V	3000K	80	3700	97	4000K	80	4050	107	5000K	70	4600	121
MLLED4	150-175W	Type V	3000K	80	4500	94	4000K	80	5100	106	5000K	70	5800	121
MLLED7	175-250W	Type V	3000K	80	5370	105	4000K	80	5550	109	5000K	70	6850	134
MLLED2	70-100W	Type V	1800K	70	2570	76	Amber	N/A	2250	66				
MLLED3	100-150W	Type V	1800K	70	2565	64	Amber	N/A	2590	65				
MLLED4	150-175W	Type V	1800K	70	3545	75	Amber	N/A	3080	65				
MLLED7	175-250W	Type V	1800K	70	4200	84	Amber	N/A	3700	74				

① All lumen values are typical (tolerance +/- 10%).

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |

Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Emergency Battery Backup Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe — Standard Mode														
MLLED2	70-100W	Type V	3000K	70	3000	91	4000K	70	3200	97	5000K	70	3200	97
MLLED3	100-150W	Type V	3000K	70	3900	98	4000K	70	4200	105	5000K	70	4200	105
MLLED4	150-175W	Type V	3000K	70	4900	100	4000K	70	5000	102	5000K	70	5300	108
MLLED7	175-250W	Type V	3000K	70	5480	98	4000K	70	5670	101	5000K	70	7080	126
MLLED2	70-100W	Type V	1800K	70	2570	71	Amber	N/A	2240	62				
MLLED3	100-150W	Type V	1800K	70	2955	66	Amber	N/A	2570	57				
MLLED4	150-175W	Type V	1800K	70	3540	67	Amber	N/A	3060	58				
MLLED7	175-250W	Type V	1800K	70	3720	66	Amber	N/A	3850	69				
Clear Polycarbonate Globe — 90 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
MLLED3	100-150W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
MLLED4	150-175W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
MLLED7	175-250W	Type V	3000K	70	1425	N/A	4000K	70	1475	N/A	5000K	70	1625	N/A
MLLED2	70-100W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
MLLED3	100-150W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
MLLED4	150-175W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
MLLED7	175-250W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
Clear Polycarbonate Globe — 180 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
MLLED3	100-150W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
MLLED4	150-175W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
MLLED7	175-250W	Type V	3000K	70	825	N/A	4000K	70	875	N/A	5000K	70	950	N/A
MLLED2	70-100W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
MLLED3	100-150W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
MLLED4	150-175W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
MLLED7	175-250W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
Diffused Polycarbonate Globe — Standard Mode														
MLLED2	70-100W	Type V	3000K	70	2900	88	4000K	70	3100	94	5000K	70	3100	94
MLLED3	100-150W	Type V	3000K	70	3800	95	4000K	70	3900	98	5000K	70	4100	103
MLLED4	150-175W	Type V	3000K	70	4800	98	4000K	70	4900	100	5000K	70	5150	105
MLLED7	175-250W	Type V	3000K	70	5390	96	4000K	70	5580	100	5000K	70	6960	124
MLLED2	70-100W	Type V	1800K	70	2540	71	Amber	N/A	2220	62				
MLLED3	100-150W	Type V	1800K	70	2920	65	Amber	N/A	2530	56				
MLLED4	150-175W	Type V	1800K	70	3490	66	Amber	N/A	3020	57				
MLLED7	175-250W	Type V	1800K	70	3690	66	Amber	N/A	3780	68				
Diffused Polycarbonate Globe — 90 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
MLLED3	100-150W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
MLLED4	150-175W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
MLLED7	175-250W	Type V	3000K	70	1400	N/A	4000K	70	1450	N/A	5000K	70	1600	N/A
MLLED2	70-100W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
MLLED3	100-150W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
MLLED4	150-175W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
MLLED7	175-250W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

② 70 minimum.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Emergency Battery Backup Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe — 180 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
MLLED3	100-150W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
MLLED4	150-175W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
MLLED7	175-250W	Type V	3000K	80	800	N/A	4000K	80	850	N/A	5000K	70	925	N/A
MLLED2	70-100W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
MLLED3	100-150W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
MLLED4	150-175W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
MLLED7	175-250W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
Clear Glass Globe — Standard Mode														
MLLED2	70-100W	Type V	3000K	80	3100	94	4000K	80	3100	94	5000K	70	3300	100
MLLED3	100-150W	Type V	3000K	80	4100	103	4000K	80	4200	105	5000K	70	4400	110
MLLED4	150-175W	Type V	3000K	80	5000	102	4000K	80	5200	106	5000K	70	5500	112
MLLED7	175-250W	Type V	3000K	80	5720	102	4000K	80	5920	106	5000K	70	7460	133
MLLED2	70-100W	Type V	1800K	70	2685	75	Amber	N/A	2350	65				
MLLED3	100-150W	Type V	1800K	70	3090	69	Amber	N/A	2690	60				
MLLED4	150-175W	Type V	1800K	70	3600	68	Amber	N/A	3200	60				
MLLED7	175-250W	Type V	1800K	70	3850	69	Amber	N/A	4050	72				
Clear Glass Globe — 90 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
MLLED3	100-150W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
MLLED4	150-175W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
MLLED7	175-250W	Type V	3000K	80	1500	N/A	4000K	80	1550	N/A	5000K	70	1700	N/A
MLLED2	70-100W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
MLLED3	100-150W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
MLLED4	150-175W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
MLLED7	175-250W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
Clear Glass Globe — 180 Minute Emergency Mode														
MLLED2	70-100W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
MLLED3	100-150W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
MLLED4	150-175W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
MLLED7	175-250W	Type V	3000K	80	850	N/A	4000K	80	900	N/A	5000K	70	1000	N/A
MLLED2	70-100W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
MLLED3	100-150W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
MLLED4	150-175W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
MLLED7	175-250W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

② 70 minimum.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Electrical Specifications — Standard Model ①

Model	Operating Temperature	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)	
MLLED2	-40 °C to +65 °C (-40 °F to +149 °F)	100 Vac	32	0.32	>0.9	< 20%	
		277 Vac	32	0.12			
		125 Vdc	32	0.28	N/A	N/A	
		300 Vdc	32	0.11			
		347 Vac	32	0.10	>0.9	< 20%	
		480 Vac	32	0.08			
	24 Vdc	30	1.20	N/A	N/A		
	48 Vdc	30	0.60				
	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	32	0.32	>0.9	< 20%	
		277 Vac	32	0.12			
		24 Vdc	30	1.20	N/A	N/A	
		48 Vdc	30	0.60			
MLLED3		-40 °C to +65 °C (-40 °F to +149 °F)	100 Vac	40	0.40	>0.9	< 20%
			277 Vac	40	0.15		
	125 Vdc		40	0.32	N/A	N/A	
	300 Vdc		40	0.13			
	347 Vac		40	0.12	>0.9	< 20%	
	480 Vac		40	0.09			
	24 Vdc	35	1.44	N/A	N/A		
	48 Vdc	35	0.71				
	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	40	0.40	>0.9	< 20%	
		277 Vac	40	0.15			
		24 Vdc	35	1.44	N/A	N/A	
		48 Vdc	35	0.71			
MLLED4		-40 °C to +65 °C (-40 °F to +149 °F)	100 Vac	49	0.49	>0.9	< 20%
			277 Vac	49	0.18		
	125 Vdc		49	0.39	N/A	N/A	
	300 Vdc		49	0.15			
	347 Vac		49	0.14	>0.9	< 20%	
	480 Vac		49	0.10			
	24 Vdc	43	1.78	N/A	N/A		
	48 Vdc	43	0.87				
	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	49	0.49	>0.9	< 20%	
		277 Vac	49	0.18			
		24 Vdc	43	1.78	N/A	N/A	
		48 Vdc	43	0.87			
MLLED7		-40 °C to +60 °C (-40 °F to +140 °F)	100 Vac	53	0.52	>0.9	< 20%
			277 Vac	53	0.19		
	125 Vdc		53	0.41	N/A	N/A	
	300 Vdc		53	0.17			
	347 Vac		53	0.15	>0.9	< 20%	
	480 Vac		53	0.11			
	24 Vdc	46	1.87	N/A	N/A		
	48 Vdc	46	0.92				
	-50 °C to +60 °C (-58 °F to +140 °F)	120 Vac	53	0.52	>0.9	< 20%	
		277 Vac	53	0.19			
	-50 °C to +65 °C (-58 °F to +149 °F)	24 Vdc	46	1.87	N/A	N/A	
		48 Vdc	46	0.92			

① All values are typical (tolerance +/-10%).

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

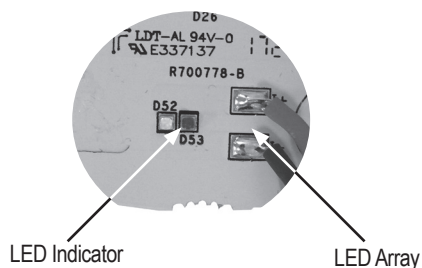
Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

Electrical Specifications — Emergency Model ①

Model	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
MLLED2	120 Vac	39	0.33	> 0.9	< 20%
	277 Vac	39	0.16		
MLLED3	120 Vac	45	0.38	> 0.9	< 20%
	277 Vac	45	0.18		
MLLED4	120 Vac	53	0.45	> 0.9	< 20%
	277 Vac	53	0.21		
MLLED7	120 Vac	56	0.47	> 0.9	< 20%
	277 Vac	56	0.22		

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 30 seconds	Lasts for the full duration of the rated emergency period
At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present	



LED Signals

Indicator Color	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator Lights (Red and Green) OFF	No AC, Emergency mode ON

① All values are typical (tolerance +/-10%).

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEx: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

NEC/CEC Temperature Codes — Standard Model ①

Model	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 21, Group IIIC	Class I, Division 2 and Class II, Division 1
MLLED2	40 (104)	90 (194)	T5	T5	T6	T6	T5
	55 (131)	90 (194)	T5	T5	T6	T6	T5
	65 (149)	90 (194)	T4A	T4	T5	T5	T4A
MLLED3	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)	90 (194)	T4A	T4	T6	T6	T4A
	65 (149)	90 (194)	T4A	T4	T5	T5	T4A
MLLED4	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)	90 (194)	T4	T4	T6	T6	T4
	65 (149)	90 (194)	T4	T4	T5	T5	T4
MLLED7 ②	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)	90 (194)	T4A	T4	T6	T6	T4A
	60 (140)	90 (194)	T4A	T4	T6	T6	T4A
	65 (149)	90 (194)	T4A	T4	T5	T5	T4A

ATEX/IECEx Temperature Codes — Standard Model ①

Model	Gas — T Rating				Dust — Surface Temperature			
	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +60 °C (+140 °F)	Ta= +65 °C (+149 °F)	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +60 °C (+140 °F)	Ta= +65 °C (+149 °F)
MLLED2	T5	T5	T4	T4	T66°C	T79°C	T88°C	T88°C
MLLED3	T4	T4	T4	T4	T66°C	T79°C	T88°C	T88°C
MLLED4	T4	T4	T4	T4	T66°C	T79°C	T88°C	T88°C
MLLED7 ②	T4	T4	T4	T4	T82°C	T82°C	T88°C	T88°C

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ③④

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).

② MLLED 120-277 Vac and 347-480 Vac models go up to +60 °C (+140 °F) ambient. MLLED7 24-48 Vdc models go up to +65 °C (+149 °F) ambient.

③ T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

④ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Mercmaster™ LED Low Profile Luminaires

With Emergency Battery Backup

Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

NEC/CEC Temperature Codes — Emergency Battery Backup Model ①

Model	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 21, Group IIIC	Class I, Division 2 and Class II, Division 1
MLLED2	40 (104)	90 (194)	T5	T5	T6	T6	T4A
	55 (131)	90 (194)	T5	T5	T6	T6	T4A
MLLED3	40 (104)	90 (194)	T5	T5	T6	T6	T5
	55 (131)	90 (194)	T5	T5	T6	T6	T5
MLLED4	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)	90 (194)	T4A	T4	T6	T6	T4A
MLLED7	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	50 (122)	90 (194)	T4A	T4	T6	T6	T4A

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ① ②

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -20 °C to +65 °C (-4 °F to +149 °F).

② T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.






③ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Mercmaster™ LED Low Profile Luminaires









Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Effective Projected Area Calculations for Outdoor Luminaires

Luminaire		Effective Projected Area (EPA) = FPA*DC ft²
Pendant Mount		0.67
Ceiling Mount		0.91
Wall Mount		0.68
25° Stanchion Mount		0.74
90° Stanchion Mount		0.73

Mounting Hoods — All Models

Hub Size	Weight in kg (lbs)	Catalog Number	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			Surface/Ceiling — Five Hubs, Four Close-Up Plugs		
 3/4" NPT		KPA-75	 3/4"		KPC-75
1" NPT	1.0 (2.3)	KPA-100	1"	1.4 (3.0)	KPC-100
M20		KPA-M20	M20		KPC-M20
Pendant Cone — One Hub, Rigid Mounting			Wall — Five Hubs, Four Close-Up Plugs		
 3/4" NPT		KPCH-75	 3/4"		KPWB-75
1" NPT	1.1 (2.5)	KPCH-100	1"	1.8 (4.0)	KPWB-100
M20		KPCH-M20	M20		KPWB-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			25° Stanchion — One Hub		
 3/4" NPT		KPA-75-WT	 1-1/4" NPT	1.5 (3.3)	KPS-125
1" NPT	1.1 (2.4)	KPA-100-WT	1-1/2" NPT		KPS-150
M20		KPA-WT-M20			
Trunnion — Five Hubs, Four Close-Up Plugs			90° Stanchion — One Hub		
 3/4" NPT		KPCT-75	 1-1/4" NPT	1.7 (3.8)	KPST-125
1" NPT	5.3 (11.7)	KPCT-100	1-1/2" NPT		KPST-150
M20		KPCT-M20			





⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires




Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚡
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — All Models

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard			
	Globe Guard — Stainless Steel	0.2 (0.4)	MGU1
Safety Cable			
	Safety Cable — Stainless Steel	0.2 (0.4)	LEDSC
Visor			
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	MMVISOR

Mounting Hood Adapters — All Models ①

	Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ® †	Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
	Appleton™ Mercmaster™ II	Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
	Crouse-Hinds™ Champ® †	Wall: TWM2/3 25° Angle Stanchion: JM5 90° Angle Stanchion: PM5	0.9 (2.00)	MMADCHVA
	Appleton™ Mercmaster™ II	Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
	Killark™ ‡	Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

① Adapters are cCSAus rated only.

‡ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.






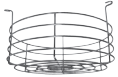

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEx: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Standard Model

Description	Weight in kg (lbs)	Catalog Number				
Globes ①						
 Glass Globe — Amber	0.2 (0.5)	VPGLGLASSAM				
 Glass Globe — Blue	0.2 (0.5)	VPGLGLASSBL				
 Glass Globe — Red	0.8 (1.7)	VPGLGLASSRE				
 Glass Globe — Green	0.8 (1.7)	VPGLGLASSGR				
Light Distribution	Weight in kg (lbs)	Catalog Number				
Prismatic Glass Refractor — All Heat-Resistant ②						
 Short Prismatic Glass Refractor — NEMA Type V	1.4 (3.0)	LPG-R5S				
Description		Catalog Number				
Guards						
 Short Refractor Guard for LPG-R5S	0.3 (0.7)	KRG2S				
Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
Replacement Drivers						
	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD72
		BH	50 Watt	3000K, 4000K, 5000K	720mA	APMS050C135HD72
		B2				APMZ050C130DC72
		BU				APMS050C135UD55
	-50 °C to +65 °C (-58 °F to +149 °F)	BH	50 Watt	1800K, Amber	550mA	APMS050C135HD55
		B2				APMZ050C130DC55
		BU	50 Watt	3000K, 4000K, 5000K	720mA	APMZ050L135UD72
		B2				APMZ050C130DC72
	BU	50 Watt	1800K, Amber	550mA	APMZ050L135UD55	
	B2				APMZ050C130DC55	

① Certified for cCSAus only, with a T4 T-Code.

② Glass Prismatic Refractors are cCSAus rated only.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |
Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Standard Model

Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number		
Replacement Drivers								
MLLED3	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD10		
		BH	50 Watt	3000K, 4000K, 5000K	1000mA	APMS050C135HD10		
		B2				APMZ050C130DC10		
		BU				APMS050C135UD64		
		BH	50 Watt	1800K, Amber	640mA	APMS050C135HD64		
		B2				APMZ050C130DC64		
	-50 °C to +65 °C (-58 °F to +149 °F)	BU					APMZ050L135UD10	
		B2	50 Watt	3000K, 4000K, 5000K	1000mA		APMZ050C130DC10	
		BU					APMZ050L135UD64	
		B2	50 Watt	1800K, Amber	640mA		APMZ050C130DC64	
		MLLED4	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD13
				BH	50 Watt	3000K, 4000K, 5000K	1300mA	APMS050C135HD13
B2						APMZ050C130DC13		
BU						APMS050C135UD78		
BH	50 Watt			1800K, Amber	780mA	APMS050C135HD78		
B2						APMZ050C130DC78		
-50 °C to +65 °C (-58 °F to +149 °F)	BU						APMZ050L135UD13	
	B2		50 Watt	3000K, 4000K, 5000K	1300mA		APMZ050C130DC13	
	BU						APMZ050L135UD78	
	B2		50 Watt	1800K, Amber	780mA		APMZ050C130DC78	
	MLLED7		-40 °C to +60 °C (-40 °F to +140 °F)	BU				APMS050C135UD82
				BH	50 Watt	ALL	825mA	APMS050C135HD82
B2						APMZ050C130DC82		
BU						APMZ050L135UD82		
-40 °C to +65 °C (-40 °F to +149 °F)		B2	50 Watt	ALL	825mA		APMZ050C130DC82	
		-50 °C to +60 °C (-58 °F to +140 °F)	BU				APMZ050L135UD82	
			B2	50 Watt	ALL	825mA		APMZ050C130DC82
			-50 °C to +65 °C (-58 °F to +149 °F)	BU				
B2				50 Watt	ALL	825mA		APMZ050C130DC82






Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Emergency Battery Backup Model

Description	Weight in kg (lbs)	Catalog Number
Battery Management Module with Battery		
 Replacement Battery Pack	0.7 (1.5)	BPMLLED
 Replacement Battery Management Module	0.7 (1.5)	BMMLLED
Replacement Fuse (Emergency system)	0.2 (0.4)	MLF5

Model	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
Replacement Drivers					
	BU	50 Watt	3000K, 4000K, 5000K	480mA	APMS050C135UD48
			1800K, Amber	550mA	APMS050C135UD55
			3000K, 4000K, 5000K	610mA	APMS050C135UD61
			1800K, Amber	640mA	APMS050C135UD64
			3000K, 4000K, 5000K	750mA	APMS050C135UD75
MLLED2			1800K, Amber	780mA	APMS050C135UD78
MLLED3			All	825mA	APMS050C135UD82
MLLED4					
MLLED7					

Luminaire Weights — All Models

Description	Weight kg (lb)
Standard Model Driver Housing	4.6 (10.10)
Emergency Battery Backup Model Driver Housing	5.8 (13.80)

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

PCD2 Series Factory Sealed Hazardous Location Photocontrol

For Use in Class I, Division 2, Groups A, B, C, D Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | NEMA 4X

Applications

- Encapsulated photocontrol provides automatic dusk-to-dawn lighting control in Class I, Division 2 locations.
- Typical applications include walkways, security areas and any other outdoor lighting application.
- Photocontrol Kit can be installed remotely to any Appleton™ luminaire, or be installed directly to the luminaire wiring compartment using a 3/4 in. close conduit nipple or 3/4 in. 90° elbow.

Features

- Factory sealed design eliminates the need for an explosionproof enclosure.
- Can be easily installed in the field.
- Operating temperature: -40 °C to +60 °C (-40 °F to +140 °F).

- Maintains Class I, Division 2 rating for all Appleton Mercmaster™ III and Mercmaster LED Series luminaires.
- Available for 120, 208, 240, or 277 volts.
- Minimum time delay: 15 seconds to eliminate nuisance tripping.
- Provided with (3) 18 AWG stranded leads 152.4 mm (6 in) in length.
- Supplied with two stainless screws and neoprene gasket (FS-GKR-1N).



Materials

- Encapsulated with epoxy sealing compound
- FS Cover: iron or aluminum

NEC/CEC Certifications and Compliances

- UL Standard: 1604 – Hazardous (Classified) Locations
- cULus Recognized

Photocontrol Kit — Separate FS Cast Hub Device Box (Step 1) and Photocontrol in FS Cover (Step 2)

	Voltage Range	Max VA	Max VA	Max Current Amps	Photocell Catalog Number	Device Box Catalog Number	
						Iron	Aluminum
Step 1: FS Cast Hub Device Box — single gang 2.00 in. deep FS Box, with one 3/4 in. bottom hub entry — Order separately							
— Connect FS Box to luminaire wiring compartment with 3/4 in. close conduit nipple or 3/4 in. 90° elbow. Purchased separately from other supplier.							
	N/A	N/A	N/A	N/A	—	APP-FS-1-75	APP-FS-1-75-A
Step 2: Photocontrol in FS Cover for installation in FS Cast Hub Device Box — Order separately							
— Supplied with two stainless screws and neoprene gasket, catalog number: FS-GKR-1N							
	120 V, 50/60 Hz	1000	1000	8.3 Amp	FSKA-PC120D2	—	—
	208 V, 50/60 Hz	1000	1000	4.8 Amp			
	240 V, 50/60 Hz	1000	1000	4.2 Amp	FSKA-PC247D2	—	—
	277 V, 50/60 Hz	1000	1000	3.6 Amp			

Mounting Hood with Factory Installed Photocontrol ①

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120 V	KPA75PC12D2
		208 V, 240 V, 277 V	KPA75PC24D2
	1" NPT	120 V	KPA100PC12D2
		208 V, 240 V, 277 V	KPA100PC24D2
Watertight Pendant	3/4" NPT	120 V	KPA75WTPC12D2
		208 V, 240 V, 277 V	KPA75WTPC24D2
	1" NPT	120 V	KPA100WTPC12D2
		208 V, 240 V, 277 V	KPA100WTPC24D2
Wall	3/4" NPT	120 V	KPWB75PC12D2
		208 V, 240 V, 277 V	KPWB75PC24D2
	1" NPT	120 V	KPWB100PC12D2
		208 V, 240 V, 277 V	KPWB100PC24D2
25° Stanchion	1-1/4" NPT stanchion	120 V	KPS125PC12D2
		208 V, 240 V, 277 V	KPS125PC24D2
	1-1/2" NPT stanchion	120 V	KPS150PC12D2
		208 V, 240 V, 277 V	KPS150PC24D2
90° Stanchion	1-1/4" NPT stanchion	120 V	KPST125PC12D2
		208 V, 240 V, 277 V	KPST125PC24D2
	1-1/2" NPT stanchion	120 V	KPST150PC12D2
		208 V, 240 V, 277 V	KPST150PC24D2
Trunnion	3/4" NPT	120 V	KPCT75PC12D2
		208 V, 240 V, 277 V	KPCT75PC24D2
	1" NPT	120 V	KPCT100PC12D2
		208 V, 240 V, 277 V	KPCT100PC24D2

① Fixtures with photocontrols are cCSAus rated, available for 120-277 Vac only, and are suitable for wet locations. The following ratings do not apply: IP, Marine Outside Type (Salt Water), Class II, NEMA.

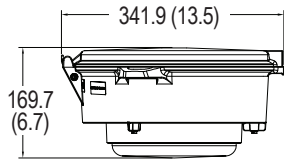
Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
 Enclosed and Gasketed Fixtures — Hazardous Locations

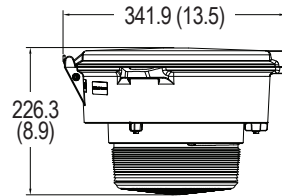
NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |
 Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
 ATEX/IECEx: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Dimensions in Millimeters (Inches) — All Models with Polycarbonate Globe — Standard Model with Short Prismatic Glass Refractor

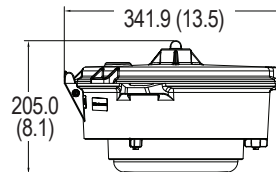
Pendant Mount — Globe



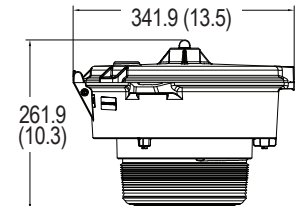
Pendant Mount — Refractor



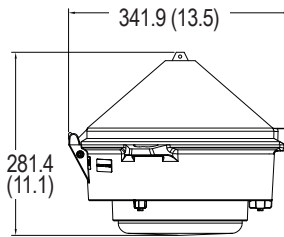
Watertight Pendant Mount — Globe



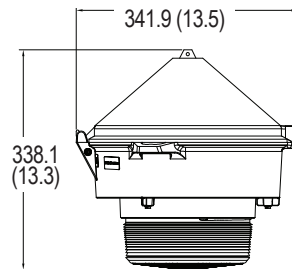
Watertight Pendant Mount — Refractor



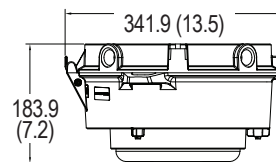
Pendant Cone Mount — Globe



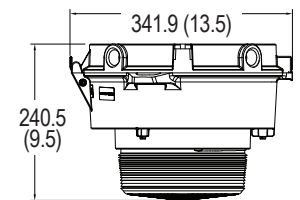
Pendant Cone Mount — Refractor



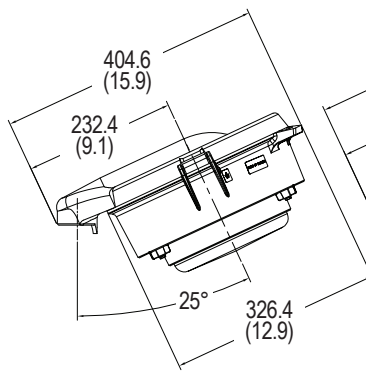
Ceiling Mount — Globe



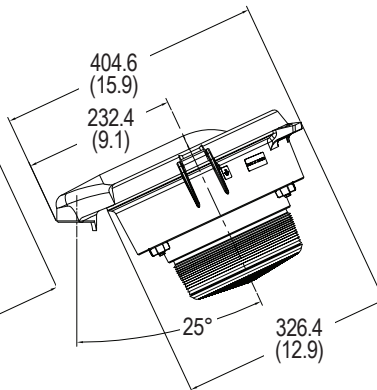
Ceiling Mount — Refractor



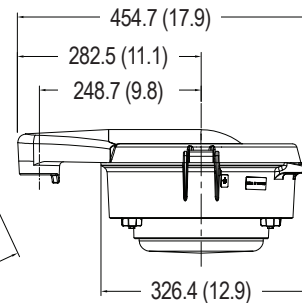
25° Stanchion Mount — Globe



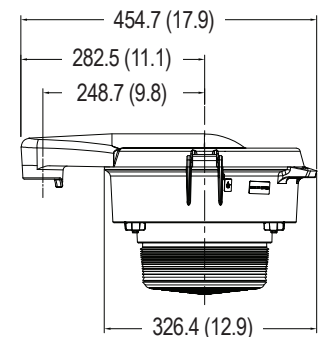
25° Stanchion Mount — Refractor



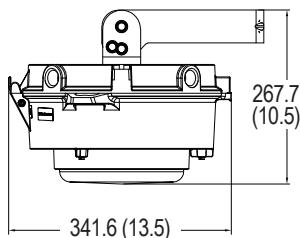
90° Stanchion Mount — Globe



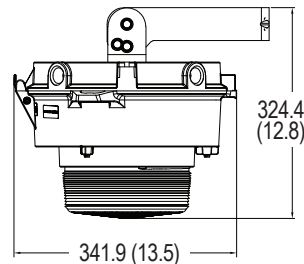
90° Stanchion Mount — Refractor



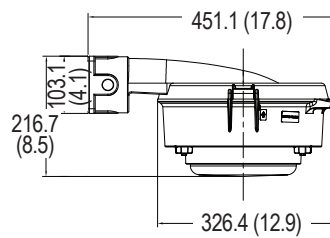
Trunnion Mount — Globe



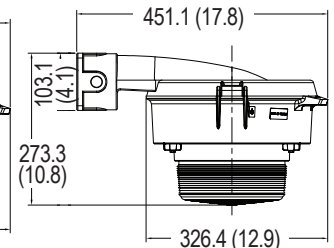
Trunnion Mount — Refractor



Wall Mount — Globe



Wall Mount — Refractor



⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

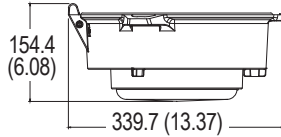
Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
Enclosed and Gasketed Fixtures — Hazardous Locations

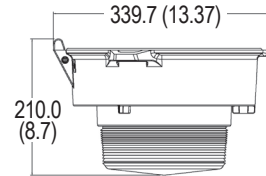
NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
ATEX/IECEX: Zones 2 – 21 and 22
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Dimensions in Millimeters (Inches) — All Models — Driver Housing

With Polycarbonate Globe — All Models

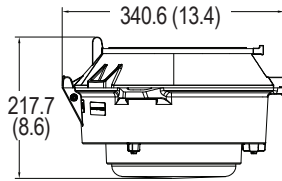


With Short Prismatic Glass Refractor — Standard Model

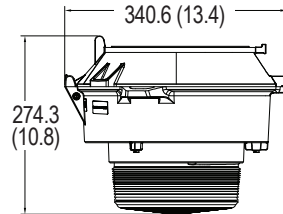


Dimensions in Millimeters (Inches) — All Models with Polycarbonate Globe — Standard Model with Short Prismatic Glass Refractor

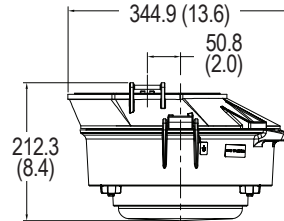
Mercmaster II Adapter — Ceiling or Pendant — Globe



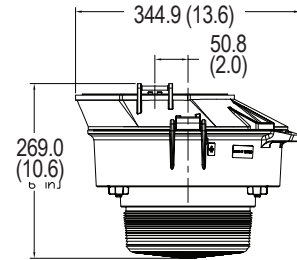
Mercmaster II Adapter — Ceiling or Pendant — Refractor



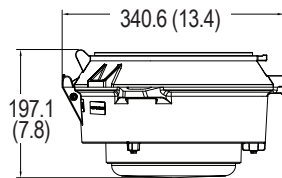
Mercmaster II Adapter — Stanchion or Wall — Globe



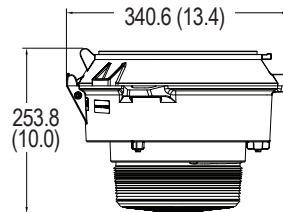
Mercmaster II Adapter — Stanchion or Wall — Refractor



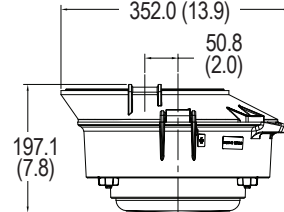
Crouse-Hinds™ + Adapter — Ceiling or Pendant — Globe



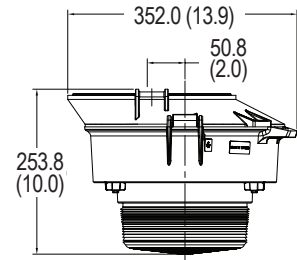
Crouse-Hinds™ + Adapter — Ceiling or Pendant — Refractor



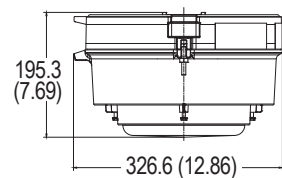
Crouse-Hinds™ + Adapter — Stanchion or Wall — Globe



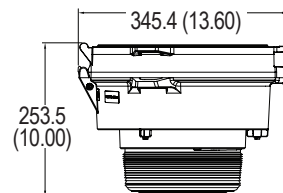
Crouse-Hinds™ + Adapter — Stanchion or Wall — Refractor



Killark™ ♦ Adapter — Globe



Killark™ ♦ Adapter — Refractor



♦ Killark is a registered trademark of Hubbell Incorporated.

± Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

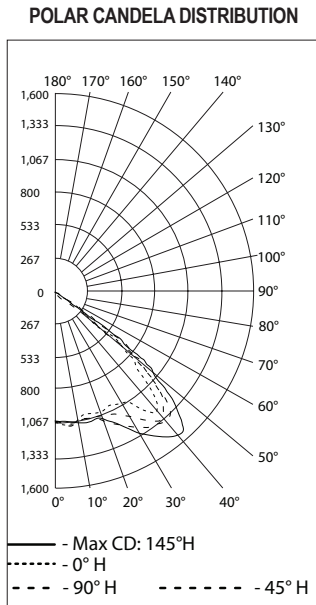
Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
 Enclosed and Gasketed Fixtures — Hazardous Locations

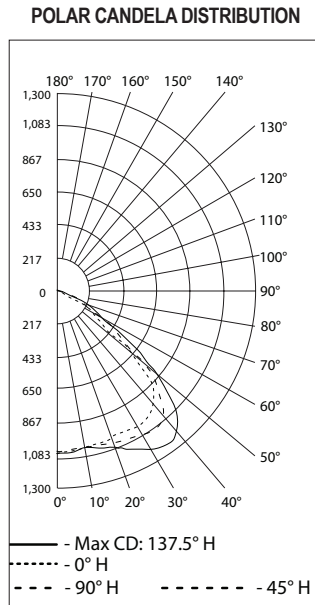
NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |
 Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
 ATEX/IECEx: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

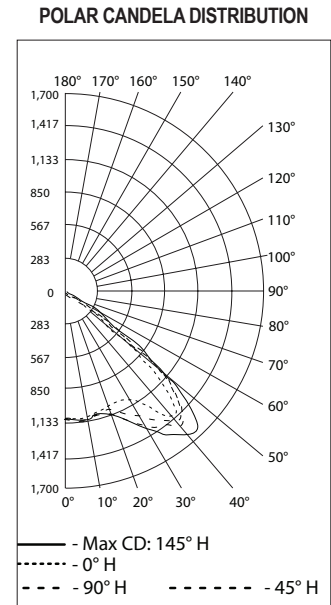
Type V, Clear Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CP5BU
 Luminaire Lumens 3,198



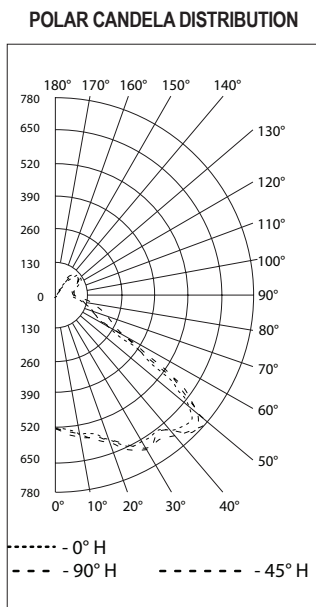
Type V, Diffused Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CD5BU
 Luminaire Lumens 3,103



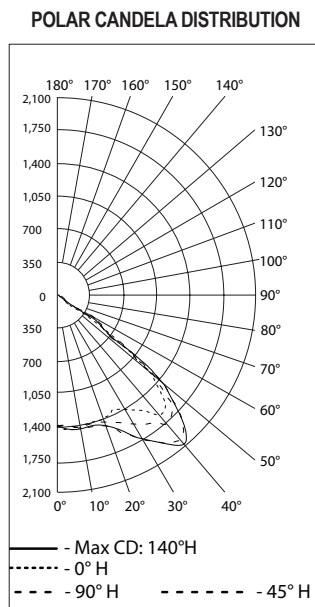
Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: MLLED4CG5BU
 Luminaire Lumens 3,334



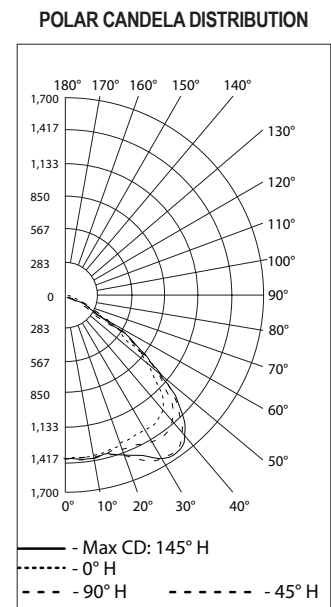
Type V, Glass Refractor, 5000K CCT
 REPORT NUMBER: MLLED4CJ5BU
 Luminaire Lumens 3,020



Type V, Clear Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CP5BU
 Luminaire Lumens 4,234



Type V, Diffused Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CD5BU
 Luminaire Lumens 4,151



⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Lighting

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
 Endless and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC |
 Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
 ATEX/IECEX: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: MLLED3CG5BU
 Luminaire Lumens 4,468

POLAR CANDELA DISTRIBUTION

— Max CD: 137.5° H
 - - - 0° H
 - - - 90° H - - - - 45° H

Type V, Glass Refractor, 5000K CCT
 REPORT NUMBER: MLLED3CJ5BU
 Luminaire Lumens 4,020

POLAR CANDELA DISTRIBUTION

- - - 0° H
 - - - 90° H - - - - 45° H

Type V, Clear Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CP5BU
 Luminaire Lumens 5,330

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 - - - 0° H
 - - - 90° H - - - - 45° H

Type V, Diffused Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED4CD5BU
 Luminaire Lumens 5,150

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 - - - 0° H
 - - - 90° H - - - - 45° H

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: MLLED4CG5BU
 Luminaire Lumens 5,529

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 - - - 0° H
 - - - 90° H - - - - 45° H

Type V, Glass Refractor, 5000K CCT
 REPORT NUMBER: MLLED4CJ5BU
 Luminaire Lumens 4,940

POLAR CANDELA DISTRIBUTION

- - - 0° H
 - - - 90° H - - - - 45° H

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

A88

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

Mercmaster™ LED Low Profile Luminaires

Standard or with Emergency Battery Backup
 Enclosed and Gasketed Fixtures — Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A,B,C,D | Class I, Zone 2, AEx ec IIC | Zone 21, AEx tb IIIC | Class I, Zone 2 Ex ec II | Class II, Division 1, Groups E,F,G | Zone 20, Group IIIC | Class II, Division 2, Groups F,G | Class III | Type 3R, 4, 4X | IP66 | IP67 | Simultaneous Exposure | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
 ATEX/IECEX: Zones 2 – 21 and 22
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

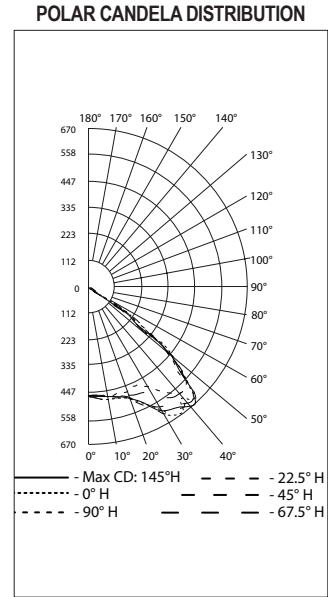
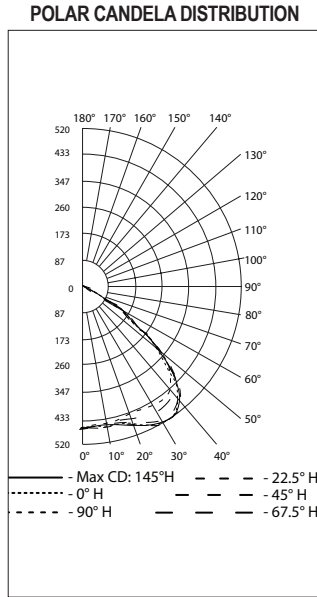
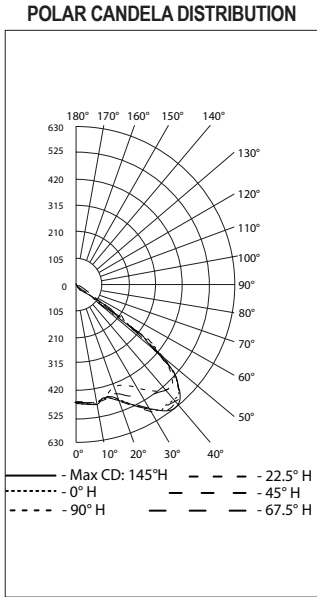
Lighting

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED2CP5BUH+EMR
 Luminaire Lumens 1,404

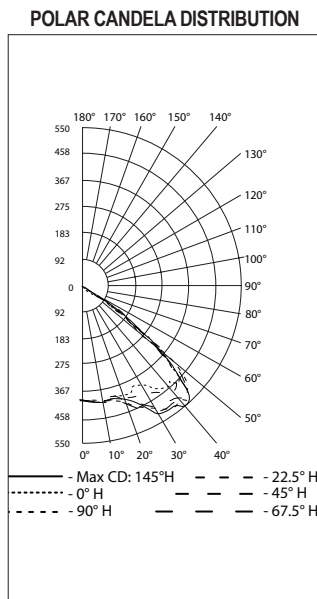
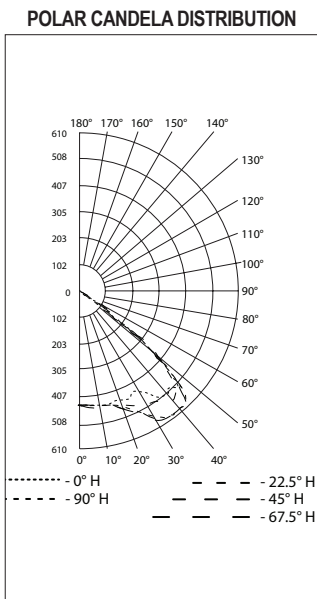
Type V, Diffused Polycarbonate, 5000K CCT
 REPORT NUMBER: MLLED2CD5BUH+EMR
 Luminaire Lumens 1,369

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: MLLED2CG5BUH+EMR
 Luminaire Lumens 1,460



Type V, Clear Glass, 4000K CCT
 REPORT NUMBER: MLLED4NG5BUH+EMR
 Luminaire Lumens 1,330

Type V, Clear Glass, 3000K CCT
 REPORT NUMBER: MLLED4WG5BUH+EMR
 Luminaire Lumens 1,207



⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ‡†
ATEX/IECEx †: Zones 2 – 21 and 22

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of industrial, chemical processing and other areas where flammable gases, vapors and combustible dusts are present including simultaneous exposure
 - Marine and wet locations
 - Wall mounted luminaire suitable for areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Typical applications include:
 - Walkways/catwalks/stairwells
 - Grain elevators
 - Tunnels
 - Pipe racks
 - Offshore rigs
 - Vessel lighting
 - Cooling towers
 - Processing areas
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Compact light weight design
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white, 3000K warm white, or 1800K high pressure sodium (70 CRI min), yellow amber.
- Customize to the application requirements with two different globe options: diffused polycarbonate, clear glass.
- Two light output levels for retrofit of HID fixtures up to 250W:

Nominal Lumens ①	HID Equivalent	Model
4200	70-100W	MLTCL3
6800	175-250W	MLTCL7

① Nominal Lumen value. Detailed lumen information is provided in tables.

- Hinge has high lip for added safety during installation and servicing.
- Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Rugged housing with superior thermal design translates to long luminaire life.
- Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment.
- Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression.
- Standard 6 kV surge protection.
- Voltages:
 - DU: 100-277 Vac or 125-300 Vdc
 - D2: 24-48 Vdc
- Ambient Temperature:
 - Standard: -40 °C to +65 °C (-40 °F to +149 °F)
 - Cold temperature option: -50 °C to +65 °C (-58 °F to +149 °F)
- Heavy duty, high temperature silicone rubber gaskets.



Reported L70:

Temperature	Reported	Calculated
+25 °C (+77 °F)	> 60000	> 200000
+65 °C (+149 °F)	> 60000	> 200000

- Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Field replaceable lens, LED driver.
- Photometric data and electronic drawings available upon request.
- Photobiological Safety, per IEC standards.

Warranty [Ⓞ]

- 5 year standard warranty.

Controls

- Dimming:
 - HB LED Multilens Bulkhead offers a two-wire, 0-10V variable dimming input port for controlling the light output:
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster™ Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- Globe guard available, purchase separately.
- Safety cable available, purchase separately.
- M20 reducer available, purchase separately.

† May be subject to revision.

‡ Use of fuse voids Marine Outside Type (Salt Water) rating.

Ⓞ For warranty details go to www.appleton.emerson.com.

HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚡†
ATEX/IECEX †: Zones 2 – 21 and 22

Standard Materials

- Mounting hoods and driver housing: cast copperfree (4/10 of 1% max.) aluminum
- Globe: polycarbonate or glass
- Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- Globe guard: stainless steel wire

Standard Finishes

- Mounting hoods and driver housing: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 50E, Second Edition; UL 844; UL 1598, Fourth Edition; UL 1598A, First Edition; UL 8750; UL 60079-0; UL 924
- CSA Standard: C22.2 No. 0-10; C22.2 No. 94.2-15; C22.2 No. E60598-1:16; C22.2 No. 137-M1981; C22.2 No. 250.0-.08; C22.2 No. 250.13-14
- ANSI/IEC Standard: 60529, 60598
- Mercmaster LED LT Standard cCSAus Listed: 164460; Certificate Number: 70134063

ATEX/IECEX Certifications and Compliances †

- Certification Type: Mercmaster LED LT
 - Gas: Zones 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 3 G
 - Type of Protection: Ex ec IIC T* Gc
 - Temperature Class: T5 to T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T**C Db, Ex tc IIIC T**C Dc
 - Surface Temperature: +66 °C to +88 °C (+151 °F to +190 °F)
- Ambient Temperature: -50 °C up to +58 °C (-58 °F up to 136 °F)
- ATEX Certificate, Zone 21: UL 22ATEX2672X
- ATEX Certificate, Zone 2, 22: UL 22ATEX2682X
- IECEX Certificate: IECEX UL 22.0003X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471

Related Products

- Industrial HB LED Multilens Bulkhead Luminaires
- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires

Illustrated Features



Mercmaster Connect LED

HB LED Multilens Bulkhead



Group Lighting Controls:

Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller by daisy chaining the dimming leads from the group of lights.

Latch Assembly and Hinge:

Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

Field Replaceable Parts:

Replacement glass and polycarbonate globes and drivers available — allowing for easy maintenance.

Safety Cable (optional):

Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

† May be subject to revision.

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

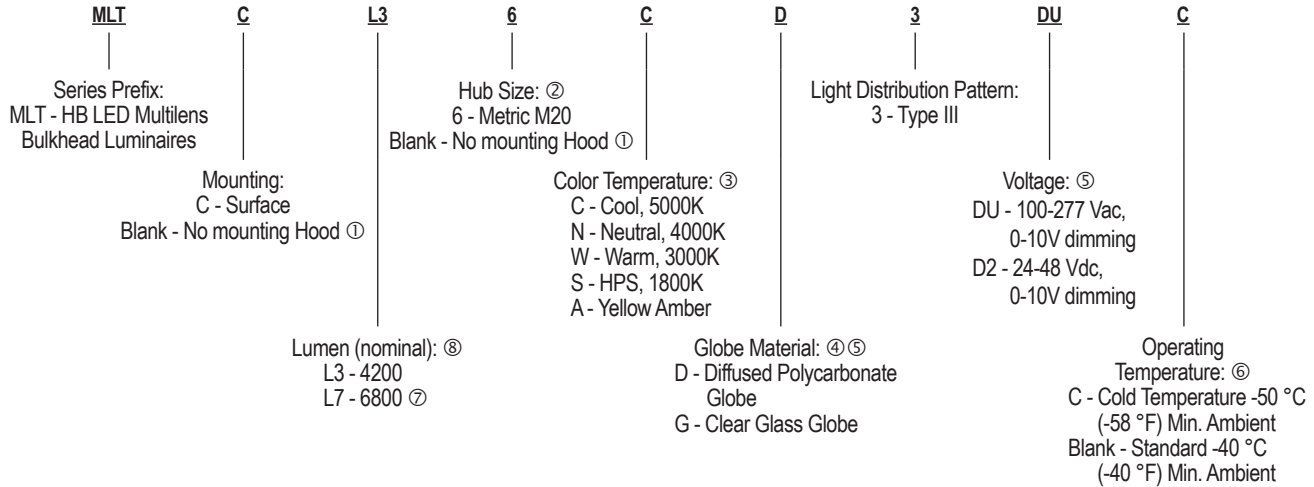
HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ‡†
ATEX/IECEX †: Zones 2 – 21 and 22

Order Using Catalog Numbering Guide — HB LED Multilens Bulkhead Luminaires



① Select this option if ordering mounting hood KPCM20MLT separately.

② The luminaire includes (5) 3/4"NPT hub and (1) M20 reducer. It ships with the driver housing and the bulkhead mount hood individually packaged.

③ Other CCT options available upon request. Contact your local sales representative for more information.

④ Guards for the globes are ordered separately. See the Accessories for more information.

⑤ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for DU voltage models at standard temperature and 0% to 100% dimming curve for D2 voltage or cold temperature models.

⑥ Cold temperature option is available for use with 120-277 Vac and clear glass globe only.

⑦ MLTCL7 120-277 Vac models go up to +60 °C (+140 °F) ambient. MLTCL7 24-48 Vdc models go up to +65 °C (+149 °F) ambient.

⑧ For lumen output information, see Lumen Output (Efficacy) Table.

† May be subject to revision.

‡ Use of fuse voids Marine Outside Type (Salt Water) rating.

HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚡†
ATEX/IECEx †: Zones 2 – 21 and 22

Lumen Output (Efficacy) ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe														
MLTCL3	70-100W	Type III	3000K	80	3300	106	4000K	80	3500	113	5000K	70	3900	126
MLTCL7	175-250W	Type III	3000K	80	5600	110	4000K	80	5800	114	5000K	70	6300	124
MLTCL3	70-100W	Type III	1800K	70	2800	82	Amber	N/A	2500	74				
MLTCL7	175-250W	Type III	1800K	70	4900	98	Amber	N/A	4300	86				
Clear Glass Globe														
MLTCL3	70-100W	Type III	3000K	80	3500	113	4000K	80	3700	119	5000K	70	4200	135
MLTCL7	175-250W	Type III	3000K	80	6000	118	4000K	80	6200	122	5000K	70	6800	133
MLTCL3	70-100W	Type III	1800K	70	3000	88	Amber	N/A	2600	76				
MLTCL7	175-250W	Type III	1800K	70	5300	106	Amber	N/A	4700	94				

Electrical Specifications ①

Model	Operating Temperature	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
MLTCL3		100 Vac	32	0.32	>0.9	< 20%
		277 Vac	32	0.12		
	-40 °C to +65 °C (-40 °F to +149 °F)	125 Vdc	32	0.25	N/A	N/A
		300 Vdc	32	0.10		
		24 Vdc	27	1.20	N/A	N/A
		48 Vdc	27	0.60		
	-50 °C to +65 °C (-58 °F to +149 °F)	24 Vdc	27	1.20	N/A	N/A
		48 Vdc	27	0.60		
		120 Vac	32	0.32	>0.9	< 20%
		277 Vac	32	0.12		
MLTCL7	-40 °C to +60 °C (-40 °F to +140 °F)	100 Vac	53	0.52	>0.9	< 20%
		277 Vac	53	0.19		
		125 Vdc	53	0.41	N/A	N/A
		300 Vdc	53	0.17		
	-40 °C to +65 °C (-40 °F to +149 °F)	24 Vdc	46	1.87	N/A	N/A
		48 Vdc	46	0.92		
	-50 °C to +60 °C (-58 °F to +140 °F)	24 Vdc	46	1.87	N/A	N/A
		48 Vdc	46	0.92		
	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	53	0.52	>0.9	< 20%
		277 Vac	53	0.19		

① All values are typical (tolerance +/-10%).

† May be subject to revision.

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ‡†
ATEX/IECEX †: Zones 2 – 21 and 22

NEC/CEC Temperature Codes — Standard Model ①

Model	Ambient Temperature °C (°F)	Supply wire Temperature °C (°F)	Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 20, Group IIIC	Class I, Division 2 and Class II, Division 1
MLTCL3	40 (104)	90 (194)	T4A	T4A	T6	T6	T4A
	55 (131)	90 (194)	T4A	T4A	T6	T6	T4A
	60 (140)	90 (194)	T4A	T4A	T5	T5	T4A
	65 (149)	90 (194)	T4A	T4A	T5	T5	T4A
MLTCL7	40 (104)	90 (194)	T4A	T4	T6	T6	T4A
	55 (131)	90 (194)	T4A	T4	T6	T6	T4A
	60 (140) ③	90 (194)	T4A	T4	T5	T5	T4A
	65 (149) ③	90 (194)	T4A	T4	T5	T5	T4A

ATEX/IECEX Temperature Codes — Standard Model ①

Model	Gas — T Rating				Dust — Surface Temperature			
	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +60 °C (+140 °F)	Ta= +65 °C (+149 °F)	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +60 °C (+140 °F)	Ta= +65 °C (+149 °F)
MLTCL3	T4	T4	T4	T4	T82°C	T82°C	T82°C	T82°C
MLTCL7	T4	T4	T4 ③	T4 ③	T82°C	T82°C	T82°C ③	T88°C ③

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ① ②

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

ATEX/IECEX — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

② T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

③ MLTCL7 120-277 Vac models go up to +60 °C (+140 °F) ambient. MLTCL7 24-48 Vdc models go up to +65 °C (+149 °F) ambient

† May be subject to revision.

‡ Use of fuse voids Marine Outside Type (Salt Water) rating.


HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures






Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ‡†
ATEX/IECEX †: Zones 2 – 21 and 22



Effective Projected Area Calculations for Outdoor Luminaires

Luminaire	Effective Projected Area (EPA) = FPA*DC ft ²
MLTC 	0.91

Accessories and Replacement Parts

Description	Weight in kg (lbs)	Catalog Number
Surface — Five Hubs, Four Close-Up Plugs		
 M20	1.4 (3.0)	KPC-M20-MLT
Globes		
 Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Adapter		
 3/4" NPT to M20 Reducer	0.09 (0.2)	737DT2M25
Guard		
 Globe Guard — Stainless Steel	0.2 (0.4)	MGU1
Safety Cable		
 Safety Cable — Stainless Steel	0.2 (0.4)	LEDSC

Replacement Drivers

Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
 MLTCL3	-40 °C to +65 °C (-40 °F to +149 °F)	DU	50 Watt	ALL	500mA	APMS050C135UD50
		D2				APMZ050C130DC50
	-50 °C to +65 °C (-58 °F to +149 °F)	DU	50 Watt	ALL	500mA	APMZ050L135UD50
		D2				APMZ050C130DC50
MLTCL7 	-40 °C to +60 °C (-40 °F to +140 °F)	DU	50 Watt	ALL	825mA	APMS050C135UD82
		D2				APMZ050C130DC82
	-40 °C to +65 °C (-40 °F to +149 °F)	DU	50 Watt	ALL	825mA	APMZ050L135UD82
		D2				APMZ050C130DC82

† May be subject to revision.

‡ Use of fuse voids Marine Outside Type (Salt Water) rating.

HB LED Multilens Bulkhead Luminaires

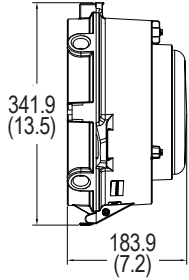
Enclosed and Gasketed Fixtures

Hazardous Locations

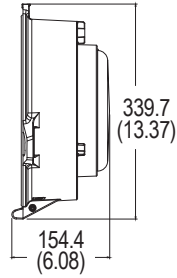
NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚠†
ATEX/IECEx †: Zones 2 – 21 and 22

Dimensions in Millimeters (Inches)

Bulkhead Mount



Driver Housing



Luminaire Weights

Description	Weight in kg (lbs)
Driver Housing	4.6 (10.10)
Bulkhead	6.0 (13.23)

† May be subject to revision.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D; Class I, Zone 2, AEx ec IIC †; Zone 21, AEx tb IIIC †; Class I, Zone 2 Ex ec IIC †; Class II, Division 1, Groups E, F, G; Zone 20, Group IIIC; Class II, Division 2, Groups F, G; Class III; Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚠ †
ATEX/IECEX †: Zones 2 – 21 and 22

Photometric Data — DATA SHOWN IS ABSOLUTE

Type III, Clear Glass, 5000K CCT, 3500 Lumens

REPORT NUMBER: MLTL3CG3DU

Luminaire Lumens 4431

Type III, Diffused Polycarbonate, 5000K CCT, 3500 Lumens

REPORT NUMBER: MLTL3CD3DU

Luminaire Lumens 4078

POLAR CANDELA DISTRIBUTION



Maximum Candela = 3116.4 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

POLAR CANDELA DISTRIBUTION



Maximum Candela = 2411.15 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

† May be subject to revision.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Flameproof luminaire solution, certified for hazardous areas in explosive gas Zones 1 and 2 or dust Zones 21 and 22 atmosphere.
- Designed for use in indoor and outdoor applications; suitable for use in:
 - Areas where flammable gases and vapors or combustible dusts may be present
 - Marine (salt water spray) and wet locations
- For use in a wide range of field applications such as
 - Power plants
 - Processing plants
 - Chemical plants
 - Oil refineries
 - Waste and sewage treatment
 - Hydrogen and Biofuels plants.
 - LNG (Liquid Natural Gas) plants

Features

- All Models
 - Compact and lightweight LED luminaire with a small mounting footprint adaptable to different installation requirements.
 - Modular design provides multiple combinations for maximum versatility.
 - Choice of three different color temperatures (CCT): 5000K cool white (-C), 4000K neutral white (-N) or 3000K warm white (-W).
 - Choice of optics for optimal light distribution in a variety of applications: Type V, medium beam (55°) or narrow beam (25°).
 - Multiple mounting options: ceiling, pendant, wall bracket or stanchion mounting.
 - Design is suited for mounting heights ranging from 2 m up to 15 m (7 ft up to 50 ft).
 - Wide ambient range: -40 °C to +50 °C/+55 °C (-40 °F to +122 °F/+131 °F).
 - IK10 impact resistant glass lens.
 - Two M20 or M25 threaded entry holes on each side of the wiring compartment. Supplied with 2 x M20 or 2 x M25 blanking plugs.
 - Customize to the application requirements; standard clear glass lens, or optional glass lens with diffuser.
 - Optional safety cable threads through the fixture housing for additional safety.
 - Field replaceable LED drivers and glass assembly.
 - Robust enclosure housing with exceptional thermal design that renders a longer luminaire life.
 - Standard 6 kV surge protection.
 - Separate field wiring compartment with screw terminal blocks for easy and secure connections (0.2 mm² to 6 mm²).
 - Heavy duty, high temperature silicone gaskets.
 - Reported L70 is > 60,000 hours.
 - Photometric data and drawings available upon request.



Standard Models

- Twelve light outputs provide up to 24,000 lumens:

Nominal Lumens ①	HID Equivalent	Model
2,900	50-70W	CLED03
3,900	70-100W	CLED04
5,000	100-150W	CLED05
6,200	150-175W	CLED06
7,000	150-250W	CLED07
8,000	175-300W	CLED08
10,000	200-350W	CLED10
12,000	350-400W	CLED12
14,000	350-400W	CLED14
16,000	400-600W	CLED16
20,000	600-800W	CLED20
24,000	1000W	CLED24

- Optional 10 kV or 20 kV surge protection available.
- Emergency Models
 - Two different emergency duration options: 90 or 180 minutes. The lumen output will be different at different duration.
 - Seven light outputs provide up to 12,000 lumens:

Nominal Lumens ①	HID Equivalent	Model
2,900	50-70W	CLED03
3,900	70-100W	CLED04
5,000	100-150W	CLED05
6,200	150-175W	CLED06
8,000	175-300W	CLED08
10,000	200-350W	CLED10
12,000	350-400W	CLED12

Warranty ②

- 5 year standard warranty.

Options

- Globe guard available, purchase separately.
- Safety cable available, purchase separately

Standard Materials

- Body: pressure die-cast copperfree aluminum
- Glass lens: high strength toughened glass.
- Gasket: silicone
- Blanking plugs: nylon
- Mounting accessories: zinc plated steel, or stainless steel
- Guard and all the fasteners: high corrosion resistant stainless steel

① Nominal lumen value for 5000K, clear glass globe Type V Wide. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

✦ Killark is a registered trademark of Hubbell Incorporated.

✦ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

🔗 For warranty details go to www.appleton.emerson.com.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Standard Finishes

- Fixture body, driver housing and glass assembly: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

ATEX/IECEx Certification and Compliances

- Certification Type: CLED
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2G
 - Type of Protection: Ex db eb IIC T4 Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2D
 - Type of Protection: Ex tb IIIC T135°C Db IP66
- Surface Temperature: Gas (T4) and Dust (T135°C)

- Ambient Temperature:
 - $-40\text{ °C} \leq T_a \leq +55\text{ °C}$ ($-40\text{ °F} \leq T_a \leq +131\text{ °F}$) for CLED03, CLED04, CLED05, CLED06, CLED07, CLED08, CLED14, CLED16;
 - $-40\text{ °C} \leq T_a \leq +50\text{ °C}$ ($-40\text{ °F} \leq T_a \leq +122\text{ °F}$) for CLED10, CLED12, CLED20, CLED24;
- ATEX Certificate: C € 2460 ITS 18 ATEX 103084X
- IECEx Certificate: IECEx ITS 18.0007X
- Ingress Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Photobiological Safety, IEC 62471 and IEC/TR 62778: RG1 with clear lens and RG0 with diffuser

Related Products

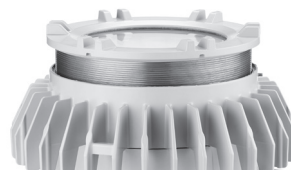
- Mercmaster LED Generation 3 Series Zone 1 Luminaires

Illustrated Features — All Models



Rugged and Versatile Housing:

Housing design allows the use of different mounting options in multiple applications. Mounting hoods and bodies are copperfree aluminum with baked powder coat finish, electrostatically applied for complete uniform protection.



Threaded Flameproof Joints:

Providing Ex d type enclosure protection makes this fixture more safe and suitable for hazardous environments.



Safety Cable:

Optional safety cable is slipped around the housing through cast retention points. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.



Wiring Termination:

Separate increased safety field wiring compartment with screw terminal block for easy and secure connections.



Optic Lens:

Medium (55°) or Narrow beam (25°) distribution patterns can be used for improving the optical distribution according to the application requirement.



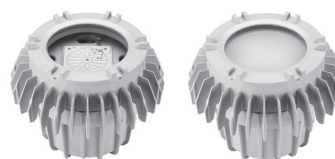
Optional Wire Guard:

Stainless steel wire guard can be used for additional mechanical protection of the glass lens.



Driver Assembly:

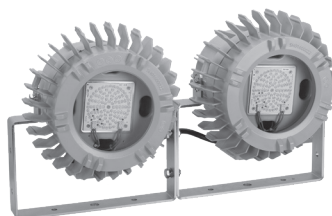
Non-sparking encapsulated components maximize safety and reliability in hazardous and harsh environments. Driver can easily be accessed and replaced.



Replaceable Globe Assembly:

The replaceable glass lens assembly is available with either clear or diffused glass lens.

Illustrated Features — High Lumen Models



Multi-function Bracket:

Installation Bracket is available for different installation requirements.



Adjustable Angle:

Fixture can be adjusted to preset angled set points and secured in place with screw and washer combination



Increased Safety Cable Gland:

Factory installed Ex e certified polyamide cable gland, power cable, and internal wiring.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — CLED Series LED Luminaires — Standard Model

CLED	03	C	G5	1	S	BU	D
Series Prefix: CLED - CLED Series Explosionproof LED Luminaires	Nominal Lumen Output: ① <i>Low Lumen Models</i> 03 - 2900 Lumens 04 - 3900 Lumens 05 - 5000 Lumens 06 - 6200 Lumens 07 - 7000 Lumens 08 - 8000 Lumens 10 - 10000 Lumens 12 - 12000 Lumens <i>High Lumen Models</i> 14 - 14000 Lumens ② 16 - 16000 Lumens ② 20 - 20000 Lumens ② 24 - 24000 Lumens ②	Color Temperature (CCT): C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K G - Green ③	Light Distribution Pattern: G5 - NEMA Type V GM - Medium (55°) GN - Narrow (25°)	Conduit Entry: 1 - Metric M20 2 - Metric M25	Wiring: S - Standard L - Dual Loop In/Out Through Wired	Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc	Options: D - Diffuser 10 - Surge Protection 10 kV 20 - Surge Protection 20 kV

Order Using Catalog Numbering Guide — CLED Series LED Luminaires — Emergency Model

CLED	03	C	G5	1	S	BU	H
Series Prefix: CLED - CLED Series Explosionproof LED Luminaires	Nominal Lumen Output: ① <i>Low Lumen Models</i> 03 - 2900 Lumens 04 - 3900 Lumens 05 - 5000 Lumens 06 - 6200 Lumens <i>High Lumen Models</i> 08 - 8000 Lumens ④ 10 - 10000 Lumens ④ 12 - 12000 Lumens ④	Color Temperature (CCT): C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K G - Green ③	Light Distribution Pattern: G5 - NEMA Type V GM - Medium (55°) GN - Narrow (25°)	Conduit Entry: 1 - Metric M20 2 - Metric M25	Wiring: S - Standard L - Dual Loop In/Out Through Wired	Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc	Options: D - Diffuser H - 90 Minute Emergency ⑤ E - 180 Minute Emergency ⑥

① Lumen values apply to CCT 5000K, 70CRI Fixtures. Lumen output may vary slightly for different models. Tolerance +/-10%.

② CLED14, CLED16, CLED20 and CLED24 are only for High Lumen type.

③ For Green other colors (i.e. Red, Blue, or Amber), contact your local sales representative.

④ CLED08, CLED10 and CLED12 Emergency Version are only for High Lumen type.

⑤ The emergency duration is 90mins with 1300 Lumen output, 2600 Lumen output for High Lumen type.

⑥ The emergency duration is 180mins with 700 Lumen output, 1400 Lumen output for High Lumen type.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Lumen Output (Efficacy) — Standard Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
CLED03	50-70W	Type V	3000K	70	2900	100	4000K	70	2900	100	5000K	70	2900	100
CLED04	70-100W	Type V	3000K	70	3900	100	4000K	70	3900	100	5000K	70	3900	100
CLED05	100-150W	Type V	3000K	70	5000	96	4000K	70	5000	96	5000K	70	5000	96
CLED06	150-175W	Type V	3000K	70	6200	107	4000K	70	6200	107	5000K	70	6200	107
CLED07	150-250W	Type V	3000K	70	7000	103	4000K	70	7000	103	5000K	70	7000	103
CLED08	175-300W	Type V	3000K	70	8000	103	4000K	70	8000	103	5000K	70	8000	103
CLED10	200-350W	Type V	3000K	70	10000	108	4000K	70	10000	108	5000K	70	10000	108
CLED12	350-400W	Type V	3000K	70	12000	105	4000K	70	12000	105	5000K	70	12000	105
CLED14	350-400W	Type V	3000K	70	14000	104	4000K	70	14000	104	5000K	70	14000	104
CLED16	400-600W	Type V	3000K	70	16000	105	4000K	70	16000	105	5000K	70	16000	105
CLED20	600-800W	Type V	3000K	70	20000	105	4000K	70	20000	105	5000K	70	20000	105
CLED24	1000W	Type V	3000K	70	24000	105	4000K	70	24000	105	5000K	70	24000	105
CLED03	50-70W	Medium	3000K	70	2755	95	4000K	70	2900	100	5000K	70	2900	100
CLED04	70-100W	Medium	3000K	70	3705	95	4000K	70	3900	100	5000K	70	3900	100
CLED05	100-150W	Medium	3000K	70	4750	91	4000K	70	5000	96	5000K	70	5000	96
CLED06	150-175W	Medium	3000K	70	5890	102	4000K	70	6200	107	5000K	70	6200	107
CLED07	150-250W	Medium	3000K	70	6650	98	4000K	70	7000	103	5000K	70	7000	103
CLED08	175-300W	Medium	3000K	70	7600	97	4000K	70	8000	103	5000K	70	8000	103
CLED10	200-350W	Medium	3000K	70	9500	102	4000K	70	10000	108	5000K	70	10000	108
CLED12	350-400W	Medium	3000K	70	11400	100	4000K	70	12000	105	5000K	70	12000	105
CLED14	350-400W	Medium	3000K	70	13300	99	4000K	70	14000	104	5000K	70	14000	104
CLED16	400-600W	Medium	3000K	70	15200	100	4000K	70	16000	105	5000K	70	16000	105
CLED20	600-800W	Medium	3000K	70	19000	100	4000K	70	20000	105	5000K	70	20000	105
CLED24	1000W	Medium	3000K	70	22800	100	4000K	70	24000	105	5000K	70	24000	105
CLED03	50-70W	Narrow	3000K	70	2755	95	4000K	70	2900	100	5000K	70	2900	100
CLED04	70-100W	Narrow	3000K	70	3705	95	4000K	70	3900	100	5000K	70	3900	100
CLED05	100-150W	Narrow	3000K	70	4750	91	4000K	70	5000	96	5000K	70	5000	96
CLED06	150-175W	Narrow	3000K	70	5890	102	4000K	70	6200	107	5000K	70	6200	107
CLED07	150-250W	Narrow	3000K	70	6650	98	4000K	70	7000	103	5000K	70	7000	103
CLED08	175-300W	Narrow	3000K	70	7600	97	4000K	70	8000	103	5000K	70	8000	103
CLED10	200-350W	Narrow	3000K	70	9500	102	4000K	70	10000	108	5000K	70	10000	108
CLED12	350-400W	Narrow	3000K	70	11400	100	4000K	70	12000	105	5000K	70	12000	105
CLED14	350-400W	Narrow	3000K	70	13300	99	4000K	70	14000	104	5000K	70	14000	104
CLED16	400-600W	Narrow	3000K	70	15200	100	4000K	70	16000	105	5000K	70	16000	105
CLED20	600-800W	Narrow	3000K	70	19000	100	4000K	70	20000	105	5000K	70	20000	105
CLED24	1000W	Narrow	3000K	70	22800	100	4000K	70	24000	105	5000K	70	24000	105

① All lumen values are typical (tolerance +/- 10%).

② For Lumen Output (Efficacy) for other colors available (i.e. Red, Blue, Green, Amber), contact your local sales representative.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Lumen Output (Efficacy) — Emergency Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
CLED03	50-70W	Type V	3000K	70	2900	85	4000K	70	2900	100	5000K	70	2900	100
CLED04	70-100W	Type V	3000K	70	3900	93	4000K	70	3900	93	5000K	70	3900	93
CLED05	100-150W	Type V	3000K	70	5000	91	4000K	70	5000	91	5000K	70	5000	91
CLED06	150-175W	Type V	3000K	70	6200	105	4000K	70	6200	105	5000K	70	6200	105
CLED08	175-300W	Type V	3000K	70	8000	95	4000K	70	8000	95	5000K	70	8000	95
CLED10	200-350W	Type V	3000K	70	10000	91	4000K	70	10000	91	5000K	70	10000	91
CLED12	350-400W	Type V	3000K	70	12000	102	4000K	70	12000	102	5000K	70	12000	102
CLED03	50-70W	Medium	3000K	70	2755	81	4000K	70	2900	85	5000K	70	2900	85
CLED04	70-100W	Medium	3000K	70	3705	88	4000K	70	3900	93	5000K	70	3900	93
CLED05	100-150W	Medium	3000K	70	4750	86	4000K	70	5000	91	5000K	70	5000	91
CLED06	150-175W	Medium	3000K	70	5890	100	4000K	70	6200	105	5000K	70	6200	105
CLED08	175-300W	Medium	3000K	70	7600	90	4000K	70	8000	95	5000K	70	8000	95
CLED10	200-350W	Medium	3000K	70	9500	86	4000K	70	10000	91	5000K	70	10000	91
CLED12	350-400W	Medium	3000K	70	11400	97	4000K	70	12000	102	5000K	70	12000	102
CLED03	50-70W	Narrow	3000K	70	2755	81	4000K	70	2900	85	5000K	70	2900	85
CLED04	70-100W	Narrow	3000K	70	3705	88	4000K	70	3900	93	5000K	70	3900	93
CLED05	100-150W	Narrow	3000K	70	4750	86	4000K	70	5000	91	5000K	70	5000	91
CLED06	150-175W	Narrow	3000K	70	5890	100	4000K	70	6200	105	5000K	70	6200	105
CLED08	175-300W	Narrow	3000K	70	7600	90	4000K	70	8000	95	5000K	70	8000	95
CLED10	200-350W	Narrow	3000K	70	9500	86	4000K	70	10000	91	5000K	70	10000	91
CLED12	350-400W	Narrow	3000K	70	11400	97	4000K	70	12000	102	5000K	70	12000	102

① All lumen values are typical (tolerance +/- 10%).

② For Lumen Output (Efficacy) for other colors available (i.e. Red, Blue, Green, Amber), contact your local sales representative.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Electrical Specifications — Standard Model

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
CLED03	120-277 Vac	29	0.25/0.11	> 0.95	< 20%
CLED04		39	0.33/0.14		
CLED05		52	0.43/0.19		
CLED06		58	0.50/0.22		
CLED07		68	0.58/0.25		
CLED08		78	0.66/0.29		
CLED10		93	0.78/0.35		
CLED12		114	0.95/0.41		
CLED14		134	1.11/0.48		
CLED16		152	1.27/0.55		
CLED20		190	1.58/0.69		
CLED24		228	1.90/0.82		

Electrical Specifications — Emergency Model

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
CLED03	120-277 Vac	34	0.28/0.12	> 0.95	< 20%
CLED04		42	0.35/0.15		
CLED05		55	0.46/0.20		
CLED06		59	0.50/0.22		
CLED08		84	0.70/0.30		
CLED10		110	0.92/0.40		
CLED12		118	0.98/0.43		

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

ATEX/IECEx Temperature Codes — All Models

Model	Ambient Temperature °C (°F)	T-Code for Zone 2	T-Code for Zone 21/22
CLED03			
CLED04			
CLED05	-40 °C ~ +55 °C (-40 °F ~ +131 °F)	T4	T135°C
CLED06			
CLED07			
CLED08			
CLED10	-40 °C ~ +50 °C (-40 °F ~ +122 °F)	T4	T135°C
CLED12			
CLED14	-40 °C ~ +55 °C (-40 °F ~ +131 °F)	T4	T135°C
CLED16			
CLED20	-40 °C ~ +50 °C (-40 °F ~ +122 °F)	T4	T135°C
CLED24			

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① All values are typical (tolerance +/-10%). Electrical ratings data presented here is measured on a typical sample. Electrical ratings in the field may vary from the given data in table. DC input current ratings, available upon request.

CLED Series LED Luminaires

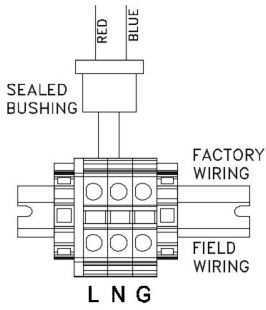
Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

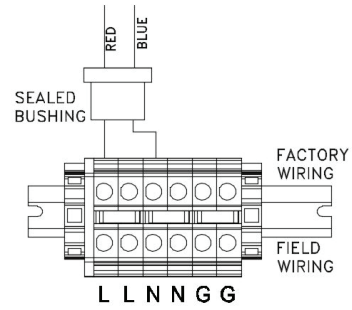
Wiring Diagrams

Standard Model

Standard

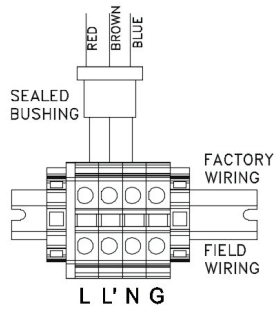


Loop In/Loop Out

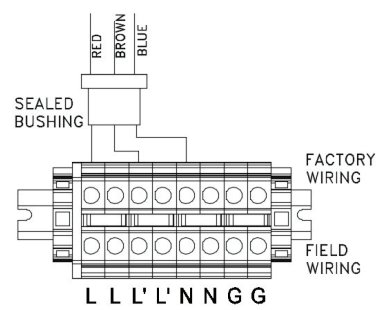


Emergency Model

Standard



Loop In/Loop Out





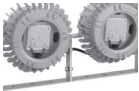


CLED Series LED Luminaires





Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Mounting Accessories — All Models

	Material	Catalog Number
Wall Mounting — Set of One		
	Zinc plated steel	CHIDWZ
	SS 304	CHIDWS
	SS 316	CHIDWS6
Ceiling Mounting — Set of One		
	Zinc plated steel	CHIDCZ
	SS 304	CHIDCS
	SS 316	CHIDCS6
Pendant Mounting — Set of One		
	Zinc plated steel	CHIDBZ
	SS 304	CHIDBS
	SS 316	CHIDBS6
Stanchion Mounting — Set of Two		
	Zinc plated steel	CFEHC49Z
	Pole Dimension: Ø 42 ~ Ø 49 mm (1-1/4" ~ 1-1/2") SS 304	CFEHC49S
Factory Fitted Bracket for High Lumen ① — Set of Two		
	Zinc plated steel ②	CLEDTMZ
	SS 304	CLEDTMS
	SS 316	CLEDTMS6

Accessories and Replacement Parts — All Models

	Description	Catalog Number
Lens Assembly		
	Clear Glass Lens Assembly	CLEDCG
	Diffused Glass Lens Assembly	CLEDDCG
Guard		
	CLED Glass Globe Guard (in 316L Stainless Steel)	CLEDGS
Safety Cable		
	Stainless Steel	CLEDSC

① High Lumen Type must be supplied with this Bracket.

② Default Factory Fitted material is Zinc plated steel.

CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Accessories and Replacement Parts — All Models

Part	Description	Catalog Number
Replacement Drivers		
	CLED03 Replacement Driver (1 each)	APMS050C135UD51
	CLED04 Replacement Driver (1 each)	APMS050C135UD69
	CLED05 Replacement Driver (1 each)	APMS050C135UD90
	CLED06 Replacement Driver (2 each)	APMS050C135UD51X2
	CLED07 Replacement Driver (2 each)	APMS050C135UD60X2
	CLED08 Replacement Driver (2 each)	APMS050C135UD69X2
	CLED10 Replacement Driver (2 each)	APMS050C135UD82X2
	CLED12 Replacement Driver (2 each)	APMS050C135UD95X2
	CLED14 Replacement Driver (4 each)	APMS050C135UD60X4
	CLED16 Replacement Driver (4 each)	APMS050C135UD69X4
	CLED20 Replacement Driver (4 each)	APMS050C135UD82X4
	CLED24 Replacement Driver (4 each)	APMS050C135UD95X4
BMM and Battery Pack		
	Replacement BMM (1 each)	CLEDBMM
	Replacement Battery pack (1 each)	CLEDBP
Fuse Assembly		
	Replacement fuse assembly (1 each)	CLEDFUSE

Luminaire Weights — All Models

Type	Model	Lumen Outputs	Standard Model Weight in kg (lbs)	Type	Model	Lumen Outputs	Emergency Model Weight in kg (lbs)
Standard Models				Emergency Models			
Low Lumen	CLED3	2,900	8.2 (18.07)	Low Lumen	CLED3	2,900	8.9 (19.62)
	CLED4	3,900			CLED4	3,900	
	CLED5	5,000			CLED5	5,000	
	CLED6	6,200	8.9 (19.62)	High Lumen	CLED6	6,200	
	CLED7	7,000			CLED8	8,000	
	CLED8	8,000			CLED10	10,000	
High Lumen	CLED10	10,000	21.5 (47.40)	CLED12	12,000		
	CLED12	12,000					
	CLED14	14,000					
	CLED16	16,000					
	CLED20	20,000					
	CLED24	24,000					

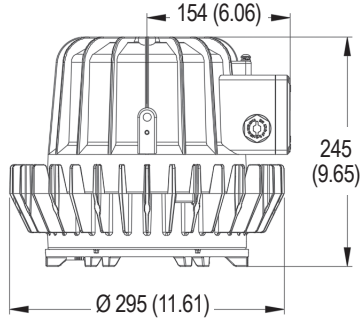
CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

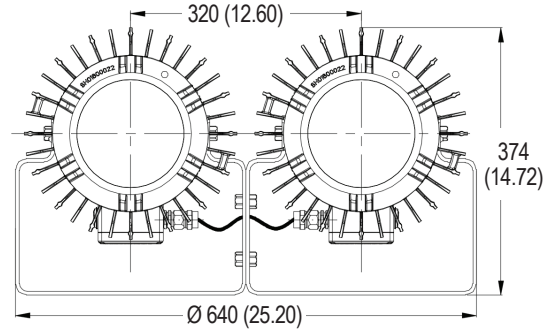
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Luminaire Dimensions in Millimeters (Inches) — All Models

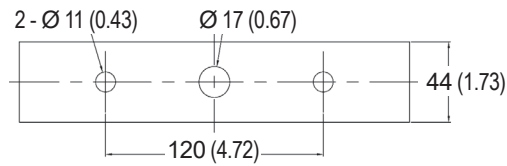
Low Lumen



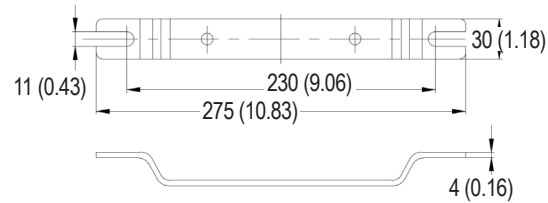
High Lumen



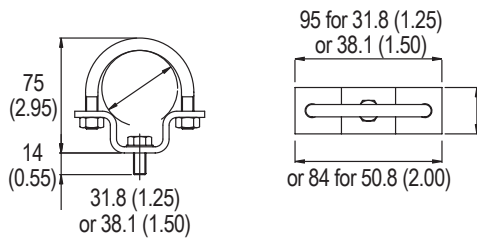
Wall Mounting



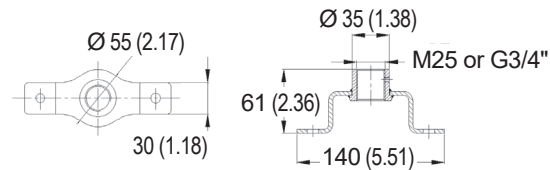
Ceiling Mounting



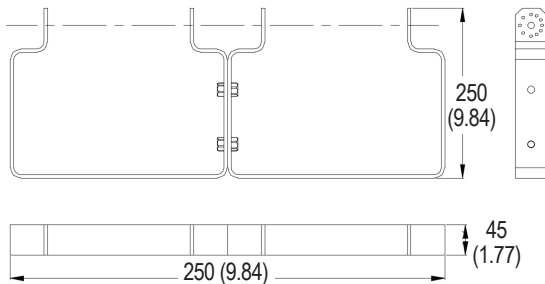
Stanchion Mounting



Pendant Mounting



Bracket for High Lumen



CLED Series LED Luminaires

Standard or with Emergency Battery Backup
Flameproof. Hazardous Location

ATEX/IECEx: Zones 1 and 2 – 21 and 22

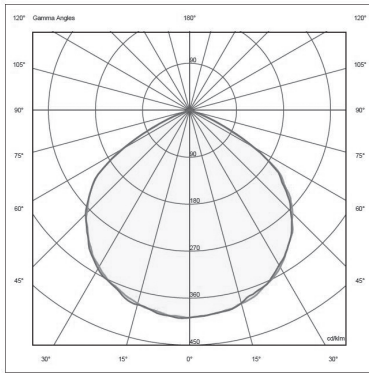
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED05CG5XXBU

Luminaire Lumens: 5000

POLAR CANDELA DISTRIBUTION

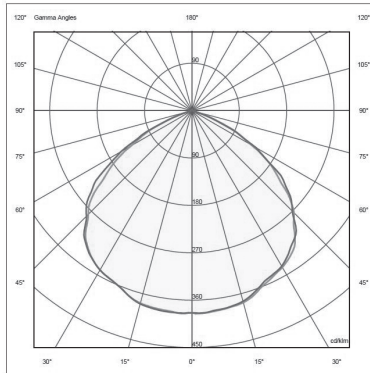


Type V, Clear Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED12CG5XXBU

Luminaire Lumens: 12330

POLAR CANDELA DISTRIBUTION

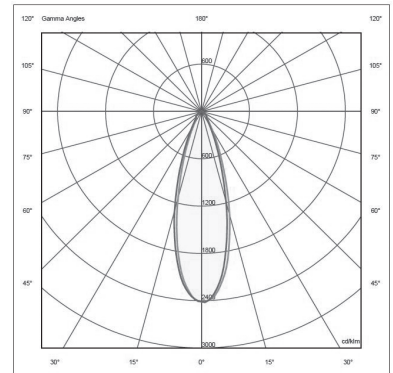


Type GN/25°, Clear Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED12CGNXXBU

Luminaire Lumens: 12040

POLAR CANDELA DISTRIBUTION

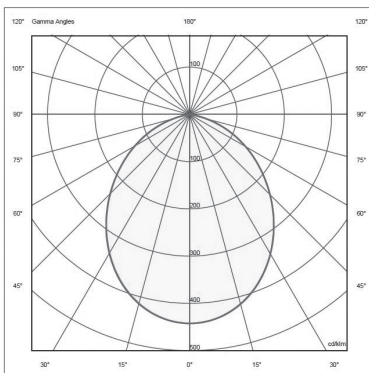


Type V, Diffused Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED08CG5XXBUD

Luminaire Lumens: 6660

POLAR CANDELA DISTRIBUTION

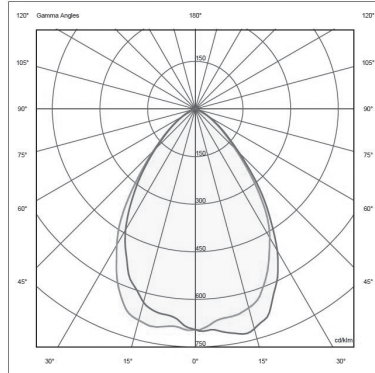


Type GM/55°, Clear Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED12CGMXXBU

Luminaire Lumens: 12500

POLAR CANDELA DISTRIBUTION

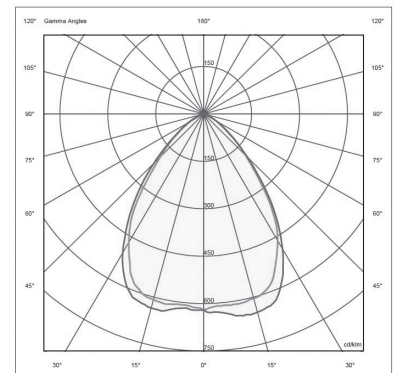


Type GM/55°, Clear Glass Lens Assembly 5000K CCT

REPORT NUMBER: CLED24CGMXXBU

Luminaire Lumens: 24000

POLAR CANDELA DISTRIBUTION



Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Applications

- Typical applications include:
 - Power plants
 - Processing plants
 - Foundries
 - Pulp and paper mills
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- Integrated WirelessHART® ɹ Sensor Module:
 - Passive Infrared Motion Sensing with field replaceable PIR Fresnel lens
 - Embedded illuminance sensor
 - Device health monitoring and alerts
 - Strengthens WirelessHART® ɹ network with a line powered luminaire
- Adjustable LED Driver output:
 - User selectable maximum lumen output
 - Fully dimmable driver from 100% to 0%
- Integrated 0-10V Dimming Controller for group lighting control of up to 10 dimmable luminaires.
 - Dimming connection located inside top hat
- Commission within Emerson Plantweb Insight's Connected Lighting Application:
 - Asset Management
 - Map Based Commissioning
 - Programmable central or standalone control modes
- Field provisioning with either Emerson AMS Device Manager or Emerson TREX handheld.
- Modular design provides thousands of combinations for maximum versatility.
- Design is suited for mounting heights ranging from 2 m up to 12 m (7 ft up to 40 ft).
- Three adjustable light outputs provide up to 17,500 lumens (5000K CCT, Type V light distribution, and clear glass globe).

Nominal Lumens ①	HID Equivalent	Model
Up to 5500	100-150W	IMGCL5
Up to 9500	250-350W	IMGCL9
Up to 17,500	400-600W	IMGCH6

- Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min).
- Customize to the application requirements with three different globe options: clear and diffused polycarbonate or clear glass.
- Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster III.



IMGCL



IMGCH

- Retrofit adapters for Crouse-Hinds™ ɹ, Mercmaster II ɹ, and Killark ɹ hoods available. See *Mounting Hood Adapters table*.
- Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies installation.
- Rugged housing with superior thermal design translates to long luminaire life.
- Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
- Spring-loaded screw-type terminal block can accept UL/CSA 14 to 6 mm² (26-10 AWG) wire.
- HART® Service Port connection inside top hat.
- Standard 6 kV surge protection.
- Heavy duty, high temperature silicone gaskets.
- Photometric data and electronic drawings available upon request.
- Ambient Temperature (standard product): -40 °C to +65 °C (-40 °F to +149 °F).
- Standard NPT threads with M20 option.
- LED L70 reported at 76,000 hours.
- Field replaceable globes, LED driver, and PIR Fresnel Lens.

Warranty ɹ

- 10 year standard warranty.

Options

- Globe available, *purchase separately*.
- Safety cable available, *purchase separately*.
- All Mercmaster Connect luminaires have provision for fusing; add suffix **-F** at the end of the catalog number.
- Drain is available to divert water existing in the conduit system, *purchase separately*.

Standard Materials

- Mounting hoods and bodies: cast copperfree (4/10 of 1% max.) aluminum
- Sensor housing: polycarbonate
- PIR Fresnel Lens: HDPE
- Gaskets: silicone
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Globe guard and safety cable: stainless steel wire

① Nominal lumen value for 5000K, clear glass globe, Type V Wide optic. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

ɹ Killark is a registered trademark of Hubbell Incorporated.

ɹ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

ɹ HART and WirelessHART are registered trademarks of the FieldComm Group.

ɹ For warranty details go to www.appleton.emerson.com.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Standard Finishes

- Mounting hoods and bodies: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598; UL 50E; UL 1598A; UL 8750
- CSA Standard: C22.2 No. 250.0; C22.2 No. 250.13; C22.2 No. 94.2; C22.2 No. 0; C22.2 No. 60529
- NEMA ANSI/IEC Standards:
- cCSAus: 164460, Certificate Number: 80046113

ABS Certification

- 23-2359512-PDA

Design Lights™ Consortium

- Check DLC QPL for current list of products.

Wireless Spectrum Approvals

- FCC ID: LW2-RM5801
- IC ID: 2731A-RM5801

Related Products

- Mercmaster Connect LED Luminaires
- Appleton Wireless Motion Sensor
- Emerson Plantweb Insight Connected Lighting Application
- Emerson 1410S WirelessHART Gateway
- Emerson 1410D WirelessHART Gateway

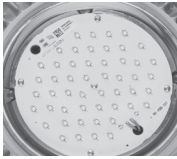
Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Illustrated Features

Programmable Lumen Output Standalone vs Central Controls



Program the nominal lumen value based on the mounting height.

- L5 – 3500 or 5500 lumens
- L9 – 7500, or 9500 lumens
- H6 – 11500, 13500, or 17500 lumens



Standalone modes are available. Connected to a WirelessHart network or when by itself in remote locations.

Standalone Control Modes:

1. Motion Sensing
2. Lux Sensing
3. Motion + Lux Sensing
4. Daylight Harvesting



Using Plantweb Insight, central control modes operate across an assigned group of luminaires.

Central Control Modes:

1. Group Sensing Control - Control a group of luminaires together based on the state of the illuminance and motion sensors
2. Time Based Schedule - Schedule up to four time periods per day to turn on groups of luminaires based on the current network time
3. Always On- Set a group of light fixtures to a common light dimming level from 0 to 100%.

Dimming



Mercmaster Connect's LED Driver fully dims the light output from 100% down to 0% based on the active operating mode.

Plantweb Insight Connected Lighting Application



Enables critical system monitoring without adding another lighting control system. Commission lighting controls, monitor lighting performance, and review historical energy analytics.

Failsafe Operating Mode



If the rare case of communication loss from a WirelessHART®[‡] gateway, all Mercmaster Connect LED Luminaires on that gateway will revert to maximum brightness until communication is restored.

Maintenance Alerts



Internal sensors monitor the health and reliability of the Mercmaster Connect electronics and provide status updates over WirelessHART®[‡].

Robust and Reliable WirelessHart Protocol



Emerson's WirelessHART®[‡] combines HART technology with wireless capabilities to create an adaptable wireless communications protocol for process automation applications. WirelessHART®[‡] offers simple installation and robust, layered security to ensure network protection.

Integrated Motion Sensor



Utilizing passive infrared detection (PIR), Mercmaster Connect can detect human sized objects from up to 40 ft away. Mercmaster Connect offers two PIR Fresnel lens factory options based on the mounting height to optimize the detection performance.

[‡] HART and WirelessHART are registered trademarks of the FieldComm Group.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Illustrated Features



Type I - Long and narrow distribution pattern designed with walkways in mind.



Type III - Wall mounted distribution pattern designed where you need good forward light projection.



Type V - Symmetrical circle distribution pattern ideal when you need even coverage in all directions.



Type V Wide - Like the Type V distribution pattern with more vertical lumens designed to help spread the light quicker and more outwards.

Choose from **three color temperatures (CCT)**: 3000K, 4000K, and 5000K ‡

Four light distribution patterns: Type I, Type III, Type V and Type V Wide for application flexibility.

Seven mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.

Four globes: clear and diffused polycarbonate, clear glass globe, and prismatic refractor provide just the right level of diffusion.

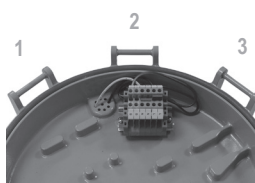
Safety Features



Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

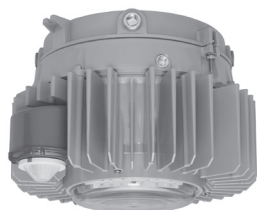


Type I and Type III Hinge System



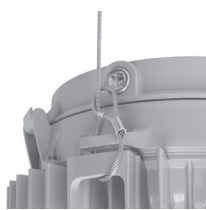
Type I and Type III light distribution patterns use a multiple hinged housing design which allows you to correctly line up the beam pattern in your desired direction. By using one of the three available hinges you can position the fixture for optimal light output.

Designed for the Environment



Driver housing design incorporates separate sections for the terminal block and driver. The efficient thermal design ensures reliable heat transfer from the LED assembly out via the heatsink and the cast, epoxy powder coat, aluminum housing.

Safety Cable



Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

Watertight Pendant Hood



Watertight pendant hood provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.

Integrated 0-10V Dimming Controller for Group Lighting Control



Mercmaster Connect can control the lighting intensity of a group of dimmable wired LED luminaires with its integrated 0-10V dimming controller. Mercmaster Connect's dimming output voltage matches its internal lighting level to raise and lower the lighting level of daisy chained dimmable wired LED luminaires. On a single electrical circuit, wire up to 10 standard dimmable luminaires over an up to 60 m (200 ft) total cable run. Compatible with 0-10V and 1-10V dimmable LED luminaires.

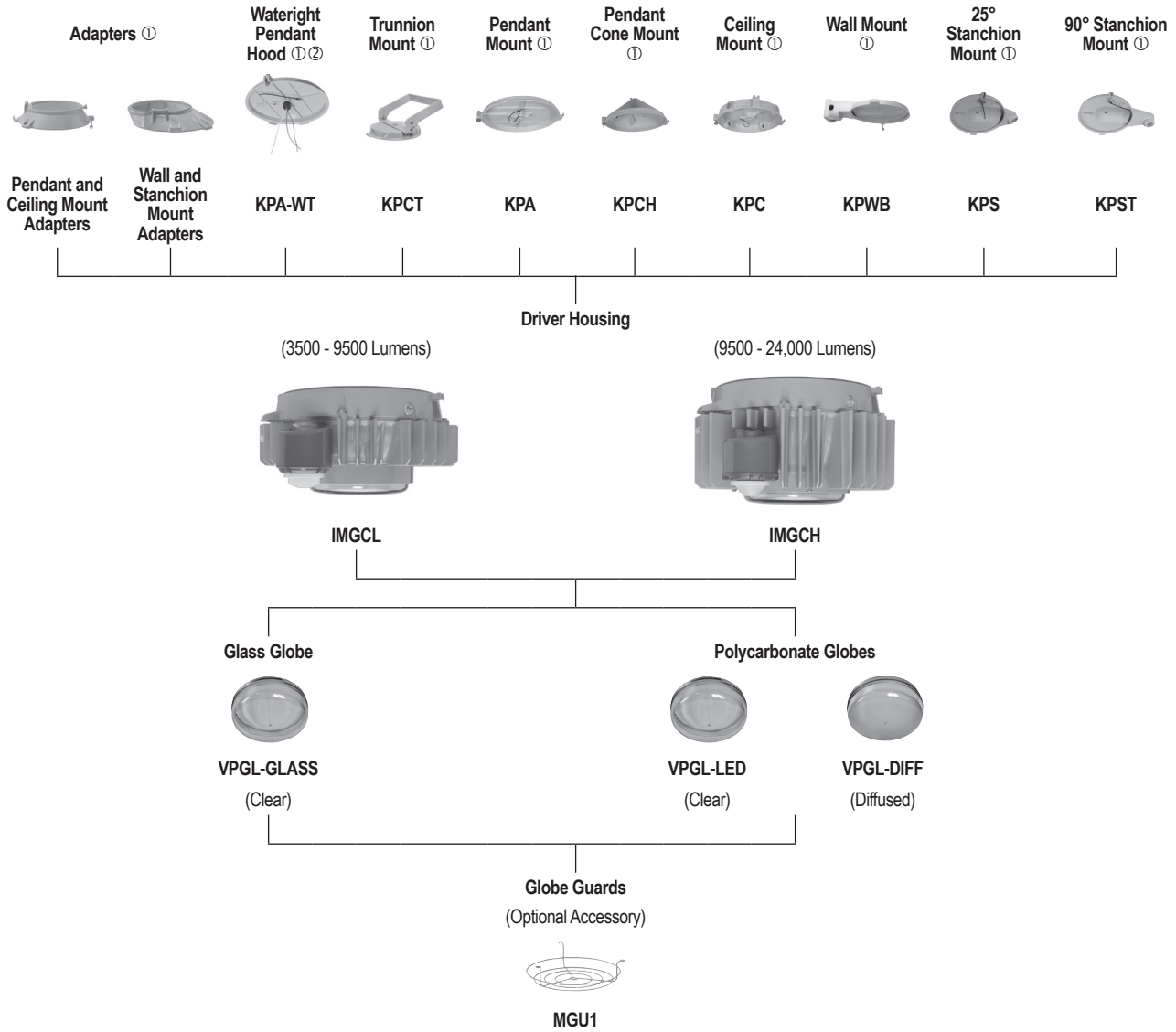
‡ Other CCT options available upon request. Contact your local sales representative for more information.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
 Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 Notable: American Bureau of Shipping (ABS) Certified

Family Tree — Industrial Mercmaster™ Connect LED Luminaires



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 Notable: American Bureau of Shipping (ABS) Certified

Order Using Catalog Numbering Guide — Industrial Mercmaster™ Connect LED Hazardous Location Luminaires

MGC	A	L5	2	N	D	5	BU	E	Z	N
Series Prefix: IMGC - Industrial Mercmaster Connect LED	Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling ② D - Pendant Cone ② R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ † Adapter, Ceiling or Pendant ▲ Y - Crouse Hinds™ † Adapter, Stanchion or Wall ▲ Blank - No mounting hood	Lumen (nominal): L5 - Up to 5,500 L9 - Up to 9,500 H6 - Up to 17,500	Hub Size: 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 Blank - If using adapter or no hood	Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K M - Mid Neutral, 4500K W - Warm, 3000K R - Mid-Warm, 3500K (retail)	Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe	Light Distribution Pattern: 1 - Type I 3 - Type III 5 - Type V W - Type V Wide	Voltage: BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc	Options: ⌘ F - Fusing Blank - No fusing	Control Options: 7 - Motion and Illuminance Sensor, WirelessHart™ †† Interface	PIR Fresnel Lens: N - Between 20 to 40 ft mounting height P - Below 20 ft mounting height

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

② Only allowed for Type V and Type V Wide light distribution.

⌘ Fusing only permitted for NEC/CEC rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters, watertight pendant hood and BH Voltage only certified for NEC/CEC.

✦ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

†† HART and WirelessHART are registered trademarks of the FieldComm Group.

Note: For other lighting combinations, please contact your local Appleton representative for more information.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) ①②

Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Efficacy Output (lm/W)		CCT		CRI		Lumen Efficacy Output (lm/W)		CCT		CRI		Lumen Efficacy Output (lm/W)		CCT		CRI		
			Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	
Clear Polycarbonate Globe — Model MGCL5 — 100-150W HID Equivalency																					
Type-I	3000K	80	4400	92	3500K	80	4500	93	4000K	80	4580	95	4500K	80	4750	99	5000K	70	4900	102	
Type-III	3000K	80	4620	96	3500K	80	4700	98	4000K	80	4800	100	4500K	80	4990	104	5000K	70	5140	107	
Type-V	3000K	80	4770	99	3500K	80	4860	101	4000K	80	4960	103	4500K	80	5150	107	5000K	70	5300	110	
Type-V Wide	3000K	80	4520	94	3500K	80	4600	96	4000K	80	4700	98	4500K	80	4870	101	5000K	70	5020	105	
Clear Polycarbonate Globe — Model MGCL9 — 250-350W HID Equivalency																					
Type-I	3000K	80	7860	100	3500K	80	8060	103	4000K	80	8170	104	4500K	80	8400	107	5000K	70	9300	119	
Type-III	3000K	80	8250	105	3500K	80	8460	108	4000K	80	8570	109	4500K	80	8800	112	5000K	70	9750	125	
Type-V	3000K	80	8430	108	3500K	80	8650	111	4000K	80	8770	112	4500K	80	9010	115	5000K	70	9970	127	
Type-V Wide	3000K	80	8120	104	3500K	80	8330	106	4000K	80	8450	108	4500K	80	8670	111	5000K	70	9600	123	
Clear Polycarbonate Globe — Model MGCH6 — 400-600W HID Equivalency																					
Type-I	3000K	80	13600	93	3500K	80	13900	95	4000K	80	14100	97	4500K	80	14470	99	5000K	70	16100	110	
Type-III	3000K	80	14200	97	3500K	80	14500	100	4000K	80	14700	101	4500K	80	15100	104	5000K	70	16800	115	
Type-V	3000K	80	15200	104	3500K	80	15600	107	4000K	80	15800	108	4500K	80	16200	111	5000K	70	18000	124	
Type-V Wide	3000K	80	13940	95	3500K	80	14270	98	4000K	80	14450	99	4500K	80	14850	102	5000K	70	16500	113	
Diffused Polycarbonate Globe — Model MGCL5 — 100-150W HID Equivalency																					
Type-I	3000K	80	4180	87	3500K	80	4260	88	4000K	80	4350	90	4500K	80	4510	94	5000K	70	4650	97	
Type-III	3000K	80	4400	91	3500K	80	4480	93	4000K	80	4570	95	4500K	80	4740	98	5000K	70	4890	102	
Type-V	3000K	80	4660	97	3500K	80	4750	99	4000K	80	4850	101	4500K	80	5030	105	5000K	70	5180	108	
Type-V Wide	3000K	80	4310	90	3500K	80	4390	91	4000K	80	4480	93	4500K	80	4650	97	5000K	70	4790	100	
Diffused Polycarbonate Globe — Model MGCL9 — 250-350W HID Equivalency																					
Type-I	3000K	80	7470	96	3500K	80	7660	98	4000K	80	7770	99	4500K	80	7980	102	5000K	70	8830	113	
Type-III	3000K	80	7820	100	3500K	80	8030	102	4000K	80	8140	104	4500K	80	8360	107	5000K	70	9250	118	
Type-V	3000K	80	8200	105	3500K	80	8400	107	4000K	80	8520	109	4500K	80	8750	112	5000K	70	9680	124	
Type-V Wide	3000K	80	7740	99	3500K	80	7940	101	4000K	80	8050	103	4500K	80	8270	106	5000K	70	9140	117	
Diffused Polycarbonate Globe — Model MGCH6 — 400-600W HID Equivalency																					
Type-I	3000K	80	12870	88	3500K	80	13170	90	4000K	80	13340	92	4500K	80	13700	94	5000K	70	15230	105	
Type-III	3000K	80	13430	92	3500K	80	13740	94	4000K	80	13900	96	4500K	80	14300	98	5000K	70	15900	109	
Type-V	3000K	80	14670	100	3500K	80	15010	103	4000K	80	15200	104	4500K	80	15620	107	5000K	70	17360	119	
Type-V Wide	3000K	80	13220	91	3500K	80	13530	93	4000K	80	13700	94	4500K	80	14100	97	5000K	70	15640	107	

① All lumen values are typical (tolerance +/-10%).

② Diffused polycarbonate globe can be used with Type I, III and V wide. Refer to photometric files for lumen output information.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application

Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 Notable: American Bureau of Shipping (ABS) Certified

Lumen Output (Efficacy) ①②

Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Efficacy			Lumen Efficacy			Lumen Efficacy			Lumen Efficacy								
			Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI	Output (lm/W)	CCT	CRI						
Clear Glass Globe — Model MGCL5 — 100-150W HID Equivalency																				
Type-I	3000K	80	4610	96	3500K	80	4700	98	4000K	80	4800	100	4500K	80	4980	103	5000K	70	5130	107
Type-III	3000K	80	4850	101	3500K	80	4940	103	4000K	80	5040	105	4500K	80	5230	109	5000K	70	5400	112
Type-V	3000K	80	4970	104	3500K	80	5060	106	4000K	80	5170	108	4500K	80	5360	112	5000K	70	5530	115
Type-V Wide	3000K	80	4730	98	3500K	80	4820	100	4000K	80	4920	102	4500K	80	5100	106	5000K	70	5260	109
Clear Glass Globe — Model MGCL9 — 250-350W HID Equivalency																				
Type-I	3000K	80	8220	105	3500K	80	8430	108	4000K	80	8550	109	4500K	80	8780	112	5000K	70	9710	124
Type-III	3000K	80	8630	110	3500K	80	8850	113	4000K	80	8980	115	4500K	80	9220	118	5000K	70	10200	131
Type-V	3000K	80	8800	112	3500K	80	9030	116	4000K	80	9150	117	4500K	80	9400	120	5000K	70	10400	133
Type-V Wide	3000K	80	8480	108	3500K	80	8700	111	4000K	80	8820	113	4500K	80	9060	116	5000K	70	10020	128
Clear Glass Globe — Model MGCH6 — 400-600W HID Equivalency																				
Type-I	3000K	80	14230	98	3500K	80	14570	100	4000K	80	14750	101	4500K	80	15160	104	5000K	70	16800	115
Type-III	3000K	80	14900	102	3500K	80	15250	105	4000K	80	15450	106	4500K	80	15870	109	5000K	70	17640	121
Type-V	3000K	80	15940	109	3500K	80	16320	112	4000K	80	16530	113	4500K	80	16980	116	5000K	70	18870	129
Type-V Wide	3000K	80	14600	100	3500K	80	14950	102	4000K	80	15150	104	4500K	80	15560	107	5000K	70	17300	118

Electrical Specifications ③

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
IMGCL5	120 Vac	46	0.39	>0.9	< 20%
	277 Vac	46	0.17		
	170 Vdc	46	0.27	N/A	N/A
IMGCL9	120 Vac	75	0.64	>0.9	< 20%
	277 Vac	75	0.29		
	170 Vdc	75	0.45	N/A	N/A
IMGCH6	120 Vac	145	1.24	>0.9	< 20%
	277 Vac	145	0.54		
	170 Vdc	145	0.86	N/A	N/A

① All lumen values are typical (tolerance +/-10%).

② Diffused polycarbonate globe can be used with Type I, III and V wide. Refer to photometric files for lumen output information.









③ All values are typical (tolerance +/-10%). Rated Input current corresponds to light intensity set at 100% brightness

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Mounting Hoods







	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT	1.0 (2.3)	KPA-75
	1" NPT		KPA-100
	M20		KPA-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.4)	KPA-75-WT
	1" NPT		KPA-100-WT
	M20		KPA-WT-M20
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.5)	KPCH-75
	1" NPT		KPCH-100
	M20		KPCH-M20
Trunnion — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	6.1 (13.4)	KPCT-75
	1" NPT		KPCT-100
	M20		KPCT-M20
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.4 (3.0)	KPC-75
	1" NPT		KPC-100
	M20		KPC-M20
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.8 (4.0)	KPWB-75
	1" NPT		KPWB-100
	M20		KPWB-M20
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Industrial Mercmaster™ Connect LED Luminaires




Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Accessories and Replacement Parts — All Models

Description	Weight in kg (lbs)	Catalog Number
Globes		
 Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
 Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
 Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard		
 Globe Guard	0.2 (0.4)	MGU1
Safety Cable		
 Stainless steel	0.2 (0.4)	LEDSC
Drain Plug		
 76 mm (3") long, 1/2" NPT trade size drain assembly used to divert water existing in the conduit system	0.4 (0.9)	LEDDR3

Mounting Hood Adapters — All Models ①

Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ® + Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
	Appleton™ Mercmaster™ II Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
	Crouse-Hinds™ Champ® + Wall: TWM2/3 25° Angle Stanchion: JM5 90° Angle Stanchion: PM5	0.9 (2.00)	MMADCHVA
	Appleton™ Mercmaster™ II Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
	Killark™ ✦ Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

Luminaire Specifications

Model	Lumen Outputs	Weight in kg (lbs)
IMGCL5	5500	11.1 (24.4)
IMGCL9	9500	11.1 (24.4)
IMGCH6	17,500	13.6 (29.9)

① Adapters are cCSAus rated only.

✦ Killark is a registered trademark of Hubbell Incorporated.

+ Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

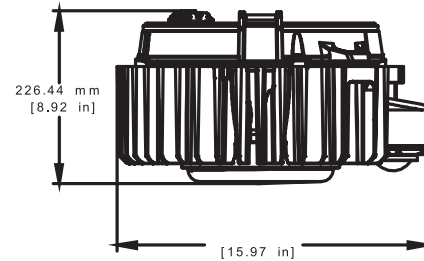
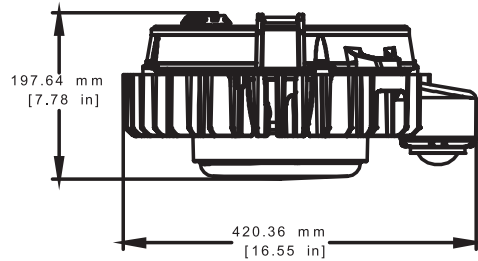
NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

Dimensional Drawings — Driver Housing with Globe

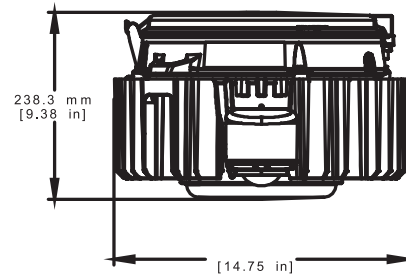
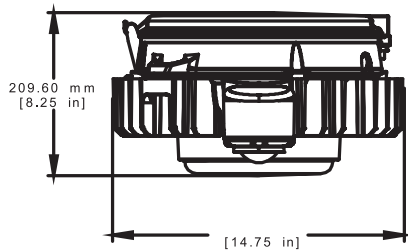
MGCL

MGCH

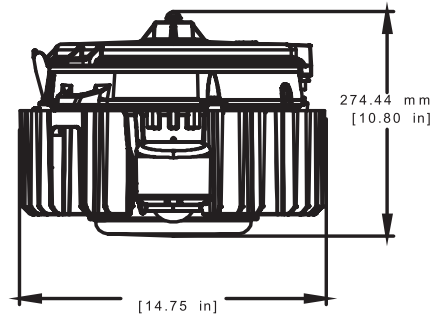
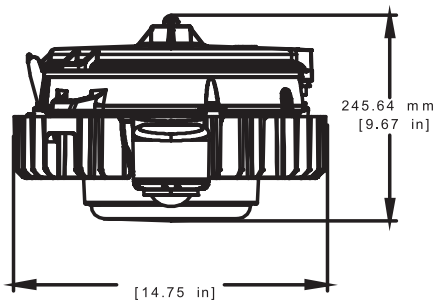
Driver Housing



Pendant



Watertight Pendant



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Industrial Mercmaster™ Connect LED Luminaires

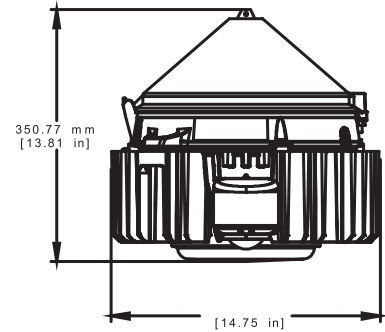
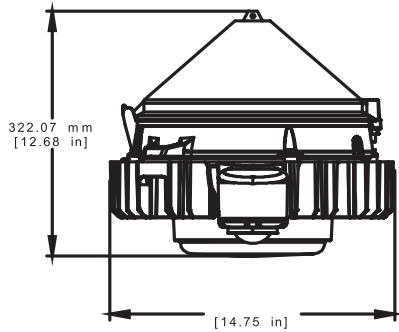
Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

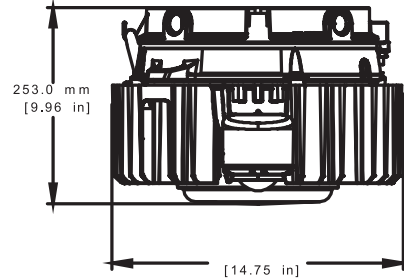
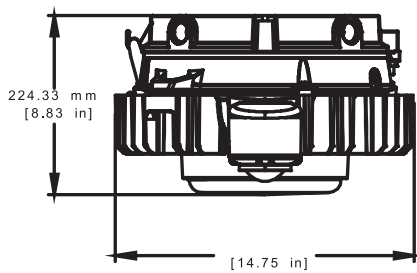
Dimensional Drawings — Driver Housing with Globe

MGCL	MGCH
------	------

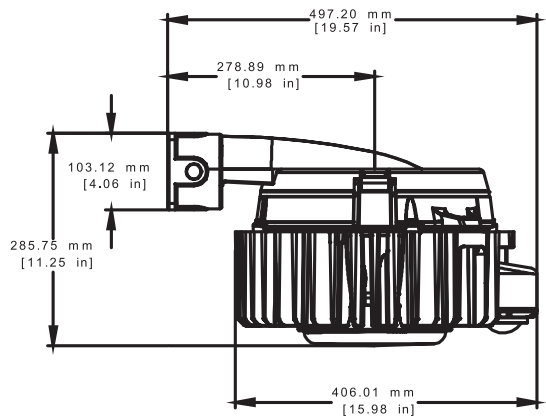
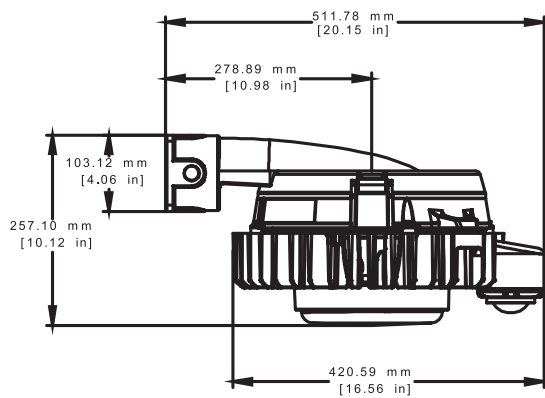
Pendant Cone



Ceiling



Wall Mount



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
 Enclosed and Gasketed Fixtures — Ordinary Locations

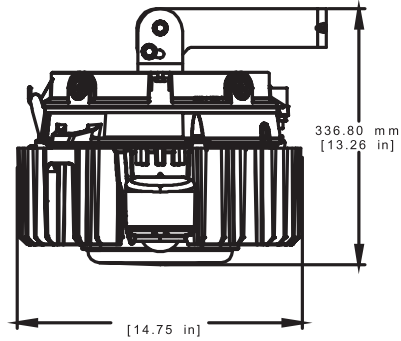
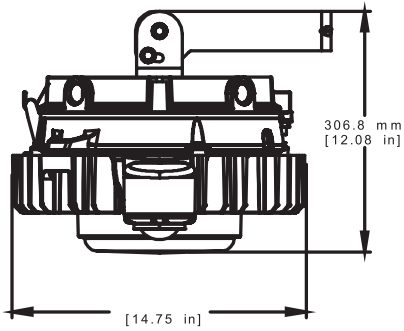
NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
 Notable: American Bureau of Shipping (ABS) Certified

Dimensional Drawings — Driver Housing with Globe

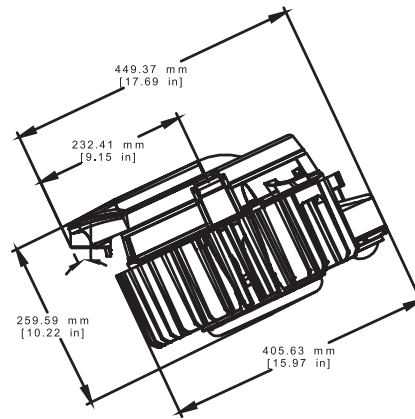
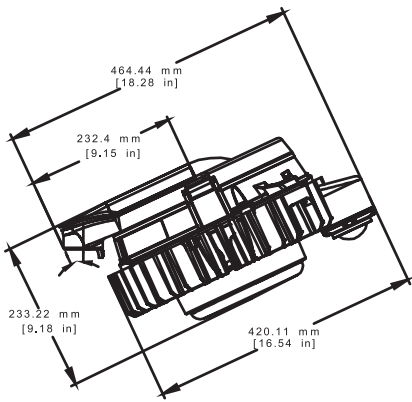
MGCL

MGCH

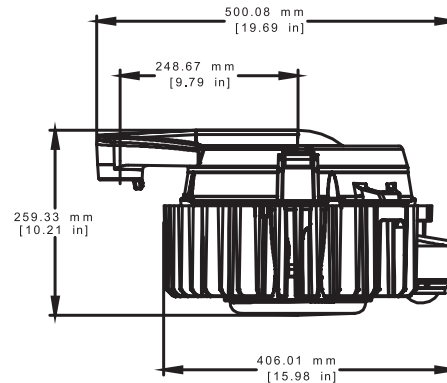
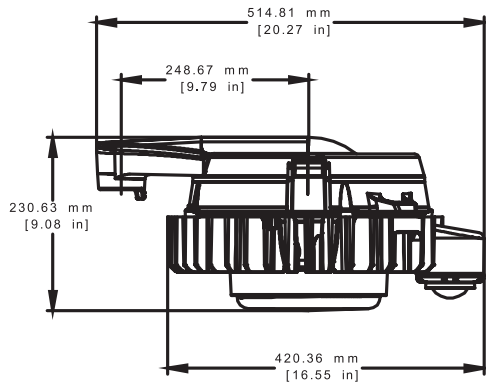
Trunnion Mount



25° Stanchion Mount



90° Stanchion Mount



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Industrial Mercmaster™ Connect LED Luminaires

Plantweb Insight™ Connected Lighting Application
Enclosed and Gasketed Fixtures — Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
Notable: American Bureau of Shipping (ABS) Certified

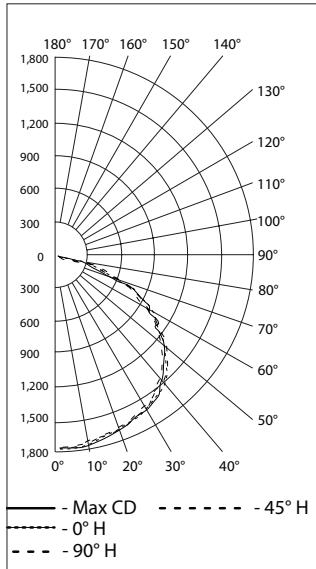
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: IMGCL5CP5

Luminaire Lumens 5,660

POLAR CANDELA DISTRIBUTION

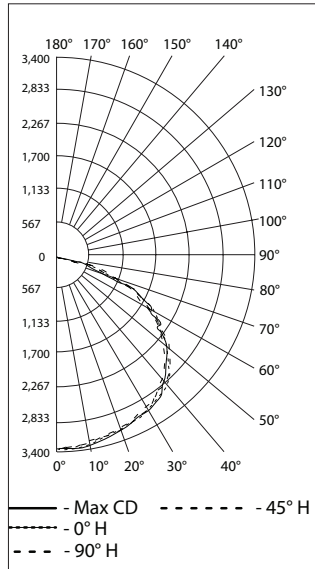


Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: IMGCL9CP5

Luminaire Lumens 10,845

POLAR CANDELA DISTRIBUTION

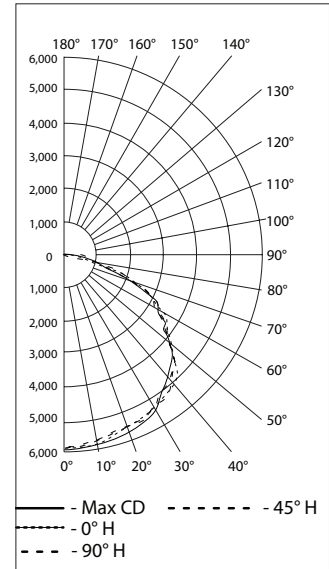


Type V, Clear Polycarbonate 5000K CCT

REPORT NUMBER: IMGCH6CP5

Luminaire Lumens 19,107

POLAR CANDELA DISTRIBUTION



Note: For other lighting combinations, please contact your local Appleton representative for more information.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Applications

- Powerful, efficient weatherproof lighting suitable for use in:
 - Warehouses, storage facilities, and receiving areas
 - Machine shops
 - Manufacturing plants
 - Walkways and catwalks
 - Locations requiring IP66/IP67, Type 4X, marine and wet location luminaires
 - Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments
- Typical harsh industrial environments include:
 - Power generation plants
 - Foundries
 - Waste and sewage treatment plants
 - Steel and other metal processing facilities
 - Pulp and paper mills
 - Processing plants
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where dust, water, dirt and rough usage are a problem

Features

- All Models:
 - Modular design provides thousands of combinations for maximum versatility.
 - Choice of optics for optimal light distribution in a variety of applications: Type I, Type III, Type V or Type V Wide.
 - Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4500K mid-neutral (80 CRI min), 4000K neutral white (80 CRI min), 3500K mid-warm (80 CRI min), or 3000K warm white (80 CRI min).
 - Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III HID.
 - Retrofit adapters for Crouse-Hinds™⁺, Mercmaster™ II HID, and Killark[⋄] hoods available. See *Mounting Hood Adapters table*.
 - Watertight Pendant Hood with IP 68 cord grip available to address water ingress into luminaire via conduit.
 - Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies installation.
 - Rugged housing with superior thermal design translates to long luminaire life.
 - Luminaire housing has wiring compartment with terminal block separate for easy wiring access.
 - Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
 - Heavy duty, high temperature silicone gaskets.
 - Photometric data and electronic drawings available upon request.
 - Standard NPT threads with M20 option.
 - Reported L70 is >76,000 hours.
- Standard Model:
 - Design is suited for low mounting heights, from 2 m up to 9 m (7 ft up to 30 ft).
 - Options for High Ambient luminaires (up to 75 °C [167 °F]).
 - Customize to the application requirements with four different globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.
 - Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA available.



IMLGL



IMLGH

- Field replaceable globes and LED driver.
- Nine light outputs provide up to 24,000 lumens.

Standard Mode Nominal Lumens ①	HID Equivalent	Model
3500	70-100W	IMLGL3
5500	100-150W	IMLGL5
7500	175-250W	IMLGL7
9500	250-350W	IMLGL9/IMLGH9
11,500	350-400W	IMLGH1
14,500	400W	IMLGH3
17,500	400-600W	IMLGH6
20,000	600-750W	IMLGH1
24,000	1000W	IMLGH5

- Emergency Battery Backup Model:
 - Provides up to 1450 lumens of illumination for 90 minutes of emergency lighting with clear lens or 800 lumens of illumination for 180 minutes of emergency lighting.

Standard Mode Nominal Lumens ①	HID Equivalent	Emergency Mode Nominal Lumens ①	Model
3500	70-100W	1450	IMLGL3*H
		800	IMLGL3*E
5500	100-150W	1450	IMLGL5*H
		800	IMLGL5*E

- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lights indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance.
- Suitable for mounting heights up to 4.27 meters (14 feet).
- Customize to the application requirements with three different globe options: clear polycarbonate, diffused polycarbonate, and clear glass.
- Standard 6 kV/3 kA surge protection.
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.

Warranty

- 10 year standard warranty.

Options

- All Models:
 - Globe guard available, *purchase separately*.
 - Safety cable available, *purchase separately*.
 - Drain is available to divert water existing in the conduit system, *purchase separately*.

① Nominal lumen value for 5000K, clear glass globe Type V Wide. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

⋄ Killark is a registered trademark of Killark Manufacturing Company.

+ Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⊗ For warranty details go to www.appleton.emerson.com.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

- Standard Model:
 - Refractor guard available, *purchase separately*.
 - All Mercmaster™ luminaires have provision for fusing; add suffix **-F** at the end of the catalog number. See *Ambient Temperature* table for specifics.
 - High Ambient luminaires. Add **-A** at end of eligible part numbers.
 - Photocontrols are available and are configured to your operating voltage. Add suffix **-1** for 120V, **-2** for 208V, **-3** for 240V, **-4** for 277V.
- Emergency Battery Backup Model:
 - UL Standard: UL 1598; UL 924; UL 8750
 - CSA Standard: C22.2 No. 250.0-18; C22.2 No. 250.13-20; C22.2 No. 141-15
 - cCSAus: 164460, Certificate Number: 70172440

NOM: Norma Oficial Mexicana:

- Standard Model:
 - NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
 - NOM Certificate: ULM-NOM-09900

IECEE CB Certificates and Compliances:

- Standard Model:
 - IEC 60598-1, IEC 60598-2-1
 - IECEE CB Certificates: 64460-80075816

ABS Certifications

- Standard Model: 18-HS1714308-PDA
- Emergency Battery Backup Model: 22-2207901-PDA

International Dark-Sky Association

- Standard Model:
 - IDA Dark-Sky Approved when ordering [I]MLG[A/B/C/D/R/W] xxW[P/D/G]5Bxxx with MMVISOR accessory

Design Lights™ Consortium

- All Models:
 - Check DLC QPL for current list of products.

Related Products

- Mercmaster LED Generation 3 Series Luminaires
- Mercmaster LED Low Profile Luminaires
- Industrial Mercmaster LED Low Profile Series Luminaires

Standard Materials

- Mounting hoods and driver housing: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Globe guard, short refractor guard and safety cable: stainless steel wire

Standard Finishes

- Mounting hoods, driver housing and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

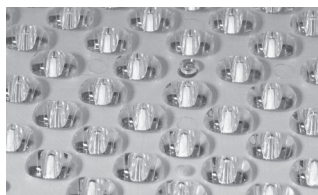
NEC/CEC Certifications and Compliances

- Standard Model:
 - UL Standard: UL 1598; UL 50E; UL 1598A; UL 8750
 - CSA Standard: C22.2 No. 250.0; C22.2 No. 250.13; C22.2 No. 94.2; C22.2 No. 0; C22.2 No. 60529
 - NEMA ANSI/IEC Standards: 60529
 - cCSAus: 164460, Certificate Number: 70129364

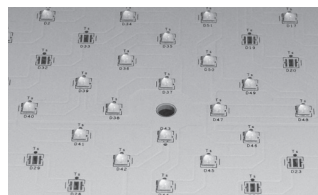
Illustrated Features — All Models



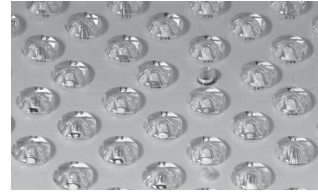
Type I - Long and narrow distribution pattern designed with walkways in mind.



Type III - Wall mounted distribution pattern designed where you need good forward light projection.



Type V - Symmetrical circle distribution pattern ideal when you need even coverage in all directions.



Type V Wide - Like the Type V distribution pattern with more vertical lumens designed to help spread the light quicker and more outwards.

Choose from **three color temperatures** (CCT): 3000K, 4000K, and 5000K ‡

Four light distribution patterns: Type I, Type III, Type V and Type V Wide for application flexibility.

Seven mounting hoods allow one fixture to be configured for ceiling, pendant, stanchion, or wall applications.

Standard Model — **Four globes:** clear and diffused polycarbonate, clear glass globe, and prismatic refractor provide just the right level of diffusion.

Emergency Battery Backup Model — **Three globes:** clear and diffused polycarbonate and clear glass globe provide just the right level of diffusion.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

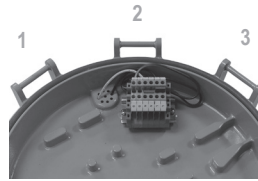
Illustrated Features — All Models

Safety Features



Latch Assembly and Hinge: Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.

Type I and Type III Hinge System



Type I and Type III light distribution patterns use a multiple hinged housing design which allows you to correctly line up the beam pattern in your desired direction. By using one of the three available hinges you can position the fixture for optimal light output.

Designed for the Environment



Driver housing design incorporates separate sections for the terminal block and driver. The efficient thermal design ensures reliable heat transfer from the LED assembly out via the heatsink and the cast, epoxy powder coat, aluminum housing.

Safety Cable



Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

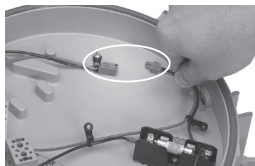
Watertight Pendant Hood



Watertight pendant hood provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.

Illustrated Features — Emergency Battery Backup Model

Quick Disconnect



Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance.

Field Changeable Duration Setting



Easy field changeable duration setting between 90 and 180 minutes.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

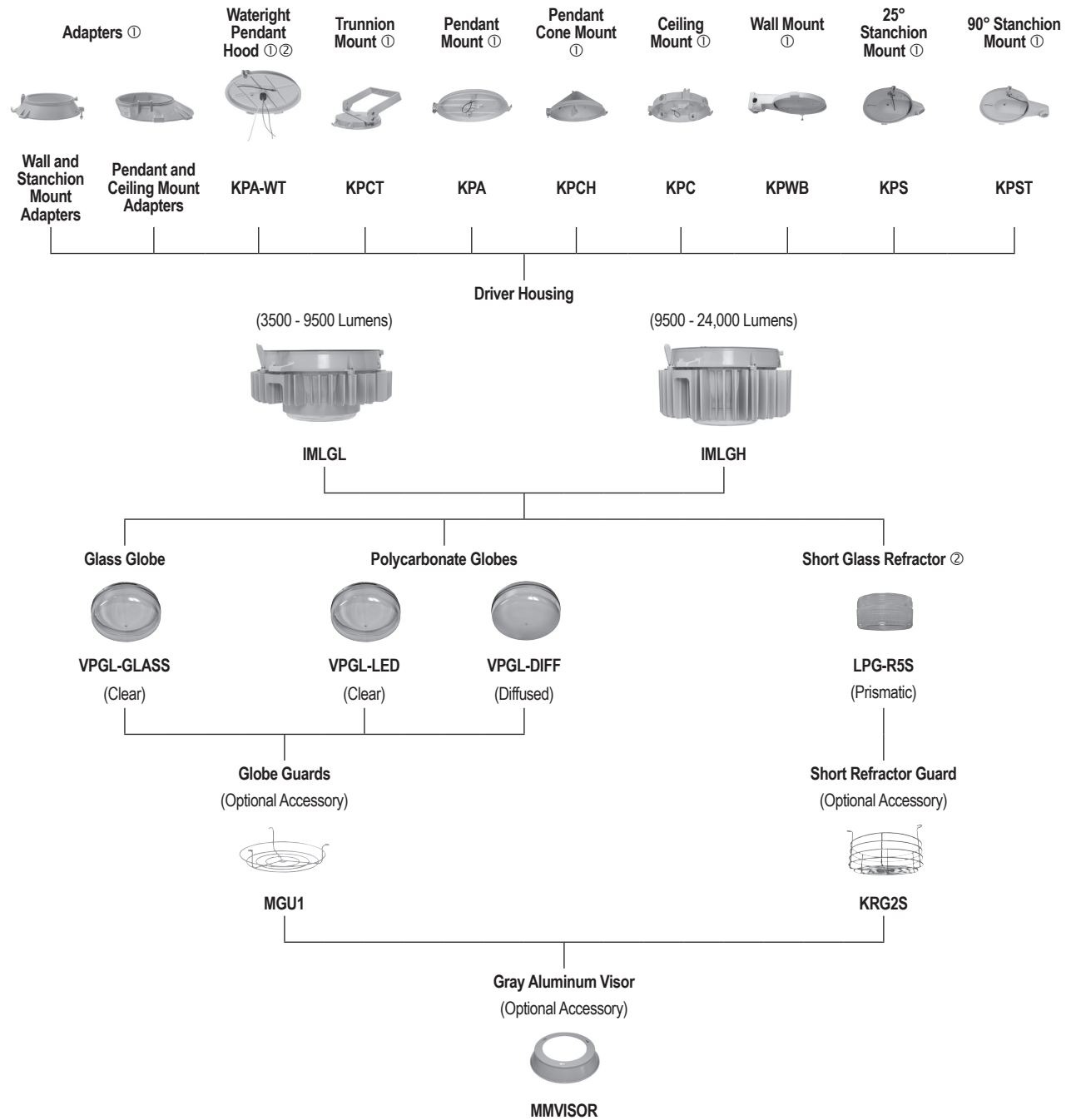
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Family Tree — Industrial Mercmaster™ LED Generation 3 Series Luminaires — Standard Model



① See Mounting Hood Adapters table for part numbers.

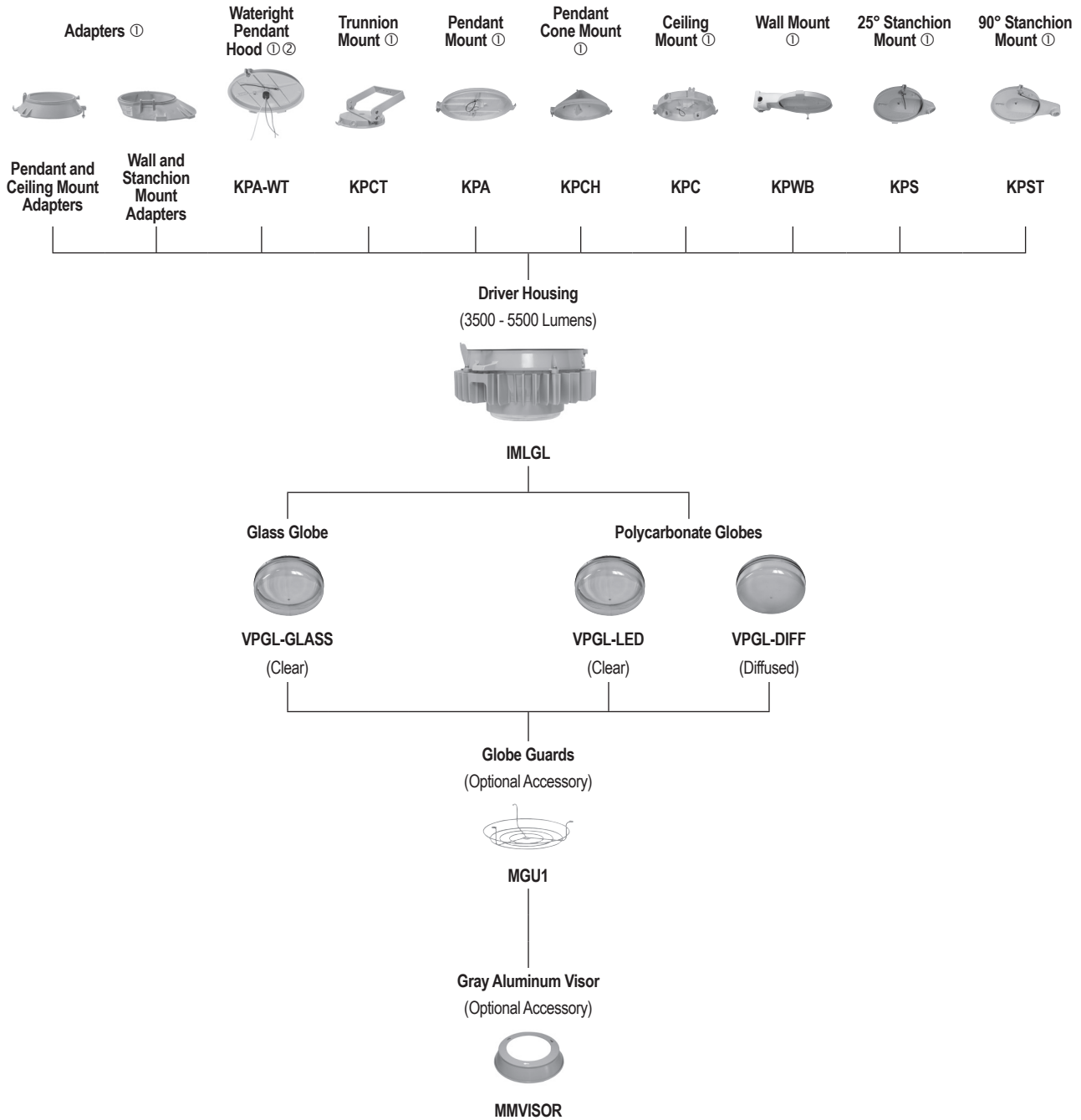
② Certified for cCSAus only.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Family Tree — Industrial Mercmaster™ LED Generation 3 Series Luminaires — Emergency Battery Backup Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Order Using Catalog Numbering Guide — Industrial Mercmaster™ LED Generation 3 Series Luminaires — Standard Model

<p>IMLG</p> <p>Series Prefix: IMLG - Industrial Mercmaster LED Generation 3 Series</p>	<p>A</p> <p>Mounting:</p> <p>A - Pendant B - Watertight Pendant ▲ C - Ceiling ⑥ D - Pendant Cone ▲ ⑥ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ † Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ † Adapter, Ceiling or Pendant ▲ ⑦ Y - Crouse Hinds™ † Adapter, Stanchion or Wall ▲ Blank - No mounting hood</p>	<p>L3</p> <p>Lumen (nominal): ② ★</p> <p>L3 - 3,500 L5 - 5,500 L7 - 7,500 L9 - 9,500 H9 - 9,500 ◆ H1 - 11,500 H3 - 13,500 H6 - 17,500 X1 - 20,000 X5 - 24,000</p>	<p>2</p> <p>Hub Size: ⑨</p> <p>2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 Blank - No hub if using adapter or ordering driver housing only (no mounting hood)</p>	<p>C</p> <p>Color Temperature: ‡</p> <p>C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K</p>	<p>P</p> <p>Globe Material:</p> <p>P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ③ J - Glass Prismatic Refractor ③ ⑩</p>	<p>5</p> <p>Light Distribution Pattern:</p> <p>1 - Type I ⑧ 3 - Type III ⑧ 5 - Type V W - Type V Wide</p>	<p>BU</p> <p>Voltage:</p> <p>BU - 120-277 Vac, 50/60 Hz; 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ▲</p>	<p>F</p> <p>Options: ④</p> <p>F - Fusing Blank - No fusing</p>	<p>1</p> <p>Options:</p> <p>1 - Photocontrol 120V ⑤ 2 - Photocontrol 208V ⑤ 3 - Photocontrol 240V ⑤ 4 - Photocontrol 277V ⑤ S - Additional surge to 10 kV † A - High Ambient ★ Blank - No Options Chosen</p>
---	---	--	---	---	--	--	--	---	---

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guards for the glass refractors and globes are ordered separately. See the Accessories for more information.

④ Fusing only permitted for cCSAus rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing. For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire.

⑤ Luminaires with photocontrol are not rated IECCE, IP66/67, 3R, 4, 4X, or Marine Outside Type (Salt Water). Photocontrol available for 120-277 Vac only. Factory installed in the mounting hood.

⑥ Ceiling-mount and pendant cone mounting hoods and adapters are not designed to use the in hood photocontrol. Ceiling and pendant cone mounts must use an FS/FD box with photocontrol. Contact your local sales rep for more information.

⑦ Only allowed for Type V and Type V Wide light distribution.

⑧ Type I and Type III use a multiple hinge housing.

⑨ Hub size does not apply to luminaires ordered with adapters.

⑩ Short glass prismatic refractor (J) is only available in light distribution pattern Type V.

★ For NEC/CEC, high ambient is available with lumen packages L3 to H3. For IECCE, high ambient is available with lumen packages L7, H9 and H1. See details in Temperature Code tables for specific NEC/CEC or IECCE applications.

◆ H9 only available with High Ambient option (-A). See details in Temperature code tables for specific NEC/CEC applications.

† 10 year warranty standard when ordered with light distribution pattern Type I, III or V Wide or additional (10 kV) surge protection (not available with high ambient options).

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters, watertight pendant hood and BH Voltage only certified for cCSAus. Not available for use with photocontrol.

◆ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Order Using Catalog Numbering Guide — Industrial Mercmaster™ LED Generation 3 Series Luminaires — Emergency Battery Backup Model

<p>IMLG</p> <p>Series Prefix: IMLG - Industrial Mercmaster LED Generation 3 Series with Emergency Battery Backup</p>	<p>A</p> <p>Mounting: A - Pendant B - Watertight Pendant ▲ C - Ceiling D - Pendant Cone ▲ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲ V - Mercmaster II Adapter, Stanchion or Wall ▲ W - Wall X - Crouse Hinds™ † Adapter, Ceiling or Pendant ▲ ④ Y - Crouse Hinds™ † Adapter, Stanchion or Wall ▲ Blank - No mounting hood</p>	<p>L3</p> <p>Lumen (nominal): ② L3 - 3,500 L5 - 5,500</p>	<p>2</p> <p>Hub Size: ⑥ 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 Blank - No hub if using adapter or ordering driver housing only (no mounting hood)</p>	<p>C</p> <p>Color Temperature: C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K</p>	<p>P</p> <p>Globe Material: P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe ③</p>	<p>5</p> <p>Light Distribution Pattern: 1 - Type I ⑤ 3 - Type III ⑤ 5 - Type V W - Type V Wide</p>	<p>BU</p> <p>Voltage: BU - 120-277 Vac, 50/60 Hz</p>	<p>H</p> <p>Emergency: H - 90 Minutes E - 180 Minutes</p>
---	--	--	--	--	---	---	---	--

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in this mounting option.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guards for the globes are ordered separately. See the Accessories for more information.

④ Only allowed for Type V and Type V Wide light distribution.

⑤ Type I and Type III use a multiple hinge housing.

⑥ Hub size does not apply to luminaires ordered with adapters.

▲ Adapters only certified for cCSAus.

✦ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
IMLGL3	70-100W	Type I	3000K	80	2600	87	4000K	80	2800	93	5000K	70	3200	107
		Type III	3000K	80	2800	93	4000K	80	3000	100	5000K	70	3500	117
		Type V	3000K	80	2950	98	4000K	80	3100	103	5000K	70	3300	110
		Type V Wide	3000K	80	3000	100	4000K	80	3150	105	5000K	70	3350	112
IMLGL5	100-150W	Type I	3000K	80	3800	83	4000K	80	4200	91	5000K	70	4800	104
		Type III	3000K	80	4100	89	4000K	80	4600	100	5000K	70	5200	113
		Type V	3000K	80	4400	96	4000K	80	4600	100	5000K	70	4950	108
		Type V Wide	3000K	80	4450	97	4000K	80	4700	102	5000K	70	5000	109
IMLGL7	175-250W	Type I	3000K	80	6000	105	4000K	80	6600	116	5000K	70	7500	132
		Type III	3000K	80	6300	111	4000K	80	7000	123	5000K	70	7900	139
		Type V	3000K	80	6950	114	4000K	80	7300	120	5000K	70	7650	125
		Type V Wide	3000K	80	7150	117	4000K	80	7550	124	5000K	70	7950	130
IMLGL9	250-350W	Type I	3000K	80	7800	104	4000K	80	8400	112	5000K	70	9400	125
		Type III	3000K	80	8900	112	4000K	80	8800	117	5000K	70	9800	131
		Type V	3000K	80	8300	104	4000K	80	8700	109	5000K	70	9800	123
		Type V Wide	3000K	80	8500	106	4000K	80	8950	112	5000K	70	10100	126
IMLGH9	250-350W	Type I	3000K	80	7800	104	4000K	80	8400	112	5000K	70	9400	125
		Type III	3000K	80	8100	108	4000K	80	8800	117	5000K	70	9800	131
		Type V	3000K	80	9150	116	4000K	80	9500	120	5000K	70	10800	137
		Type V Wide	3000K	80	8400	106	4000K	80	8700	110	5000K	70	9900	125
IMLGH1	350-400W	Type I	3000K	80	9500	102	4000K	80	10200	110	5000K	70	11500	124
		Type III	3000K	80	10700	109	4000K	80	10700	115	5000K	70	12000	129
		Type V	3000K	80	10900	117	4000K	80	11800	127	5000K	70	13200	142
		Type V Wide	3000K	80	9700	104	4000K	80	10500	113	5000K	70	11800	127
IMLGH3	400W	Type I	3000K	80	11400	99	4000K	80	12300	107	5000K	70	13800	120
		Type III	3000K	80	11900	103	4000K	80	12900	112	5000K	70	14500	126
		Type V	3000K	80	13100	114	4000K	80	14200	123	5000K	70	15900	138
		Type V Wide	3000K	80	11700	102	4000K	80	12700	110	5000K	70	14300	124
IMLGH6	400-600W	Type I	3000K	80	13900	96	4000K	80	15100	104	5000K	70	16900	117
		Type III	3000K	80	14900	104	4000K	80	15600	108	5000K	70	17500	121
		Type V	3000K	80	16300	113	4000K	80	17100	118	5000K	70	19100	132
		Type V Wide	3000K	80	14700	102	4000K	80	15500	107	5000K	70	17400	120
IMLGX1	600-750W	Type I	3000K	80	16431	97	4000K	80	17336	103	5000K	70	18338	109
		Type III	3000K	80	17110	101	4000K	80	18084	107	5000K	70	19096	113
		Type V	3000K	80	18623	110	4000K	80	19863	118	5000K	70	21019	124
		Type V Wide	3000K	80	17072	101	4000K	80	18044	107	5000K	70	19054	113
IMLGX5	1000W	Type I	3000K	80	18859	90	4000K	80	19932	95	5000K	70	21048	100
		Type III	3000K	80	19514	93	4000K	80	20625	98	5000K	70	21779	104
		Type V	3000K	80	22103	105	4000K	80	23575	112	5000K	70	24947	119
		Type V Wide	3000K	80	20424	97	4000K	80	21586	103	5000K	70	22794	109

① All lumen values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe														
IMLGL3	70-100W	Type I	3000K	80	2700	87	4000K	80	2900	95	5000K	70	3200	108
		Type III	3000K	80	2800	92	4000K	80	3000	101	5000K	70	3300	112
		Type V	3000K	80	2900	97	4000K	80	3200	107	5000K	70	3700	123
		Type V Wide	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	113
IMLGL5	100-150W	Type I	3000K	80	4000	85	4000K	80	4400	94	5000K	70	4900	107
		Type III	3000K	80	4200	91	4000K	80	4600	100	5000K	70	5100	110
		Type V	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5500	120
		Type V Wide	3000K	80	4200	90	4000K	80	4600	100	5000K	70	5100	110
IMLGL7	175-250W	Type I	3000K	80	6000	101	4000K	80	6600	109	5000K	70	6900	122
		Type III	3000K	80	6400	108	4000K	80	6900	114	5000K	70	7200	126
		Type V	3000K	80	6600	116	4000K	80	7300	128	5000K	70	8300	129
		Type V Wide	3000K	80	6200	105	4000K	80	6600	115	5000K	70	7200	126
IMLGL9/ IMLGH9	250-350W	Type I	3000K	80	8000	101	4000K	80	8300	106	5000K	70	9300	118
		Type III	3000K	80	8400	106	4000K	80	8800	113	5000K	70	9700	124
		Type V	3000K	80	8500	113	4000K	80	9200	123	5000K	70	10300	137
		Type V Wide	3000K	80	8200	105	4000K	80	8700	111	5000K	70	9700	124
IMLGH1	350-400W	Type I	3000K	80	9600	98	4000K	80	10000	104	5000K	70	11100	115
		Type III	3000K	80	10100	104	4000K	80	10600	110	5000K	70	11700	121
		Type V	3000K	80	10300	111	4000K	80	11200	120	5000K	70	12500	134
		Type V Wide	3000K	80	9900	102	4000K	80	10400	109	5000K	70	11700	121
IMLGH3	400W	Type I	3000K	80	10900	96	4000K	80	11600	103	5000K	70	12900	114
		Type III	3000K	80	11700	103	4000K	80	12400	109	5000K	70	13600	120
		Type V	3000K	80	12500	109	4000K	80	13500	117	5000K	70	15100	131
		Type V Wide	3000K	80	11500	101	4000K	80	12100	107	5000K	70	13700	120
IMLGH6	400-600W	Type I	3000K	80	13200	93	4000K	80	14000	99	5000K	70	15700	109
		Type III	3000K	80	14200	99	4000K	80	15000	105	5000K	70	16500	115
		Type V	3000K	80	15800	109	4000K	80	17000	118	5000K	70	18200	126
		Type V Wide	3000K	80	14000	97	4000K	80	14800	104	5000K	70	16600	116
IMLGX1	600-750W	Type I	3000K	80	15587	92	4000K	80	16491	98	5000K	70	17377	103
		Type III	3000K	80	16221	96	4000K	80	17161	102	5000K	70	18083	107
		Type V	3000K	80	18036	107	4000K	80	19260	114	5000K	70	20063	119
		Type V Wide	3000K	80	16153	96	4000K	80	17089	101	5000K	70	18007	107
IMLGX5	1000W	Type I	3000K	80	17885	85	4000K	80	18922	90	5000K	70	19939	95
		Type III	3000K	80	18499	88	4000K	80	19571	93	5000K	70	20623	98
		Type V	3000K	80	21475	102	4000K	80	22932	109	5000K	70	23888	114
		Type V Wide	3000K	80	19275	92	4000K	80	20393	97	5000K	70	21489	102

① All lumen values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass Globe														
MLGL3	70-100W	Type I	3000K	80	2800	93	4000K	80	3100	103	5000K	70	3500	117
		Type III	3000K	80	3100	102	4000K	80	3200	107	5000K	70	3700	123
		Type V	3000K	80	3100	103	4000K	80	3200	107	5000K	70	3450	115
		Type V Wide	3000K	80	3150	105	4000K	80	3250	108	5000K	70	3500	117
MLGL5	100-150W	Type I	3000K	80	4200	91	4000K	80	4600	100	5000K	70	5300	115
		Type III	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5400	117
		Type V	3000K	80	4650	101	4000K	80	4800	114	5000K	70	5150	112
		Type V Wide	3000K	80	4700	102	4000K	80	4900	107	5000K	70	5250	114
MLGL7	175-250W	Type I	3000K	80	6400	112	4000K	80	7100	125	5000K	70	8000	140
		Type III	3000K	80	6600	116	4000K	80	7300	128	5000K	70	8300	146
		Type V	3000K	80	7250	119	4000K	80	7600	125	5000K	70	8000	131
		Type V Wide	3000K	80	7750	124	4000K	80	7900	130	5000K	70	8300	136
MLGL9	250-350W	Type I	3000K	80	8500	111	4000K	80	8800	117	5000K	70	9900	132
		Type III	3000K	80	8600	115	4000K	80	9300	124	5000K	70	10400	139
		Type V	3000K	80	8550	107	4000K	80	9000	113	5000K	70	10150	127
		Type V Wide	3000K	80	8850	111	4000K	80	9300	116	5000K	70	10500	131
MLGH9	250-350W	Type I	3000K	80	8100	108	4000K	80	8800	117	5000K	70	9900	132
		Type III	3000K	80	8600	115	4000K	80	9300	124	5000K	70	10400	139
		Type V	3000K	80	9300	124	4000K	80	10100	135	5000K	70	11200	149
		Type V Wide	3000K	80	8500	113	4000K	80	9200	123	5000K	70	10300	137
MLGH1	350-400W	Type I	3000K	80	9900	106	4000K	80	10700	115	5000K	70	12000	129
		Type III	3000K	80	11200	115	4000K	80	11300	122	5000K	70	12600	135
		Type V	3000K	80	11400	123	4000K	80	12300	132	5000K	70	13600	146
		Type V Wide	3000K	80	10300	111	4000K	80	11200	120	5000K	70	12500	134
MLGH3	400W	Type I	3000K	80	12000	104	4000K	80	12900	112	5000K	70	14500	126
		Type III	3000K	80	12600	110	4000K	80	13600	118	5000K	70	15300	133
		Type V	3000K	80	13700	119	4000K	80	14900	130	5000K	70	16400	143
		Type V Wide	3000K	80	12500	109	4000K	80	13500	117	5000K	70	15100	131
MLGH6	400-600W	Type I	3000K	80	14500	100	4000K	80	15700	108	5000K	70	17700	122
		Type III	3000K	80	15100	104	4000K	80	16400	113	5000K	70	18400	127
		Type V	3000K	80	17000	117	4000K	80	18000	124	5000K	70	20100	139
		Type V Wide	3000K	80	15000	103	4000K	80	16300	112	5000K	70	18200	126
MLGX1	600-750W	Type I	3000K	80	17170	102	4000K	80	18188	108	5000K	70	19206	114
		Type III	3000K	80	17931	106	4000K	80	18994	112	5000K	70	20057	119
		Type V	3000K	80	20006	118	4000K	80	21366	126	5000K	70	21937	130
		Type V Wide	3000K	80	17830	106	4000K	80	18887	112	5000K	70	19944	118
MLGX5	1000W	Type I	3000K	80	19468	93	4000K	80	20623	98	5000K	70	21777	104
		Type III	3000K	80	20342	97	4000K	80	21548	103	5000K	70	22754	108
		Type V	3000K	80	23776	113	4000K	80	25392	121	5000K	70	26070	124
		Type V Wide	3000K	80	21285	101	4000K	80	22547	107	5000K	70	23809	113

① All lumen values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Glass Prismatic Refractor														
MLGL3	70-100W	Type V	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	111
MLGL5	100-150W	Type V	3000K	80	4200	90	4000K	80	4600	99	5000K	70	5100	110
MLGL7	175-250W	Type V	3000K	80	6300	107	4000K	80	6700	113	5000K	70	7300	123
MLGL9/ MLGH9	250-350W	Type V	3000K	80	8400	107	4000K	80	8800	112	5000K	70	9700	124
MLGH1	350-400W	Type V	3000K	80	10100	105	4000K	80	10600	110	5000K	70	11700	121
MLGH3	400W	Type V	3000K	80	11800	104	4000K	80	12400	109	5000K	70	13600	120
MLGH6	400-600W	Type V	3000K	80	14500	100	4000K	80	15100	105	5000K	70	16700	116
MLGX1	600-750W	Type V	3000K	80	16798	99	4000K	80	17915	106	5000K	70	18318	108
MLGX5	1000W	Type V	3000K	80	19962	95	4000K	80	21290	101	5000K	70	21769	104

① All lumen values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Emergency Battery Backup Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
IMLGL3	70-100W	Type I	3000K	80	2600	87	4000K	80	3000	100	5000K	70	3200	107
		Type III	3000K	80	2800	93	4000K	80	3000	100	5000K	70	3500	117
		Type V	3000K	80	3000	100	4000K	80	3300	110	5000K	70	3800	127
		Type V Wide	3000K	80	2900	96	4000K	80	2900	97	5000K	70	3600	119
IMLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type III	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V Wide	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
IMLGL5	100-150W	Type I	3000K	80	3800	83	4000K	80	4200	91	5000K	70	4800	104
		Type III	3000K	80	4100	89	4000K	80	4600	100	5000K	70	5200	113
		Type V	3000K	80	4500	98	4000K	80	5000	109	5000K	70	5700	124
		Type V Wide	3000K	80	4400	94	4000K	80	4800	105	5000K	70	6000	129
IMLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type III	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
		Type V Wide	3000K	80	1150	N/A	4000K	80	1280	N/A	5000K	70	1400	N/A
Diffused Polycarbonate Globe														
IMLGL3	70-100W	Type I	3000K	80	2700	87	4000K	80	2900	95	5000K	70	3200	108
		Type III	3000K	80	2800	92	4000K	80	3000	101	5000K	70	3300	112
		Type V	3000K	80	2900	97	4000K	80	3200	107	5000K	70	3700	123
		Type V Wide	3000K	80	2800	91	4000K	80	3000	101	5000K	70	3400	113
IMLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type III	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V Wide	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
IMLGL5	100-150W	Type I	3000K	80	4000	85	4000K	80	4400	94	5000K	70	4900	107
		Type III	3000K	80	4200	91	4000K	80	6400	100	5000K	70	5100	110
		Type V	3000K	80	4400	96	4000K	80	4800	104	5000K	70	5500	120
		Type V Wide	3000K	80	4200	90	4000K	80	4600	100	5000K	70	5100	110
IMLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type III	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A
		Type V Wide	3000K	80	1100	N/A	4000K	80	1230	N/A	5000K	70	1350	N/A

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Lumen Output (Efficacy) — Emergency Battery Backup Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass Globe														
IMLGL3	70-100W	Type I	3000K	80	2800	93	4000K	80	3100	103	5000K	70	3500	111
		Type III	3000K	80	3100	102	4000K	80	3200	107	5000K	70	3700	116
		Type V	3000K	80	3100	102	4000K	80	3600	120	5000K	70	4000	133
		Type V Wide	3000K	80	3100	101	4000K	80	3200	107	5000K	70	3600	120
IMLGL3 — 90 Minute Emergency Mode	70-100W	Type I	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type III	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V Wide	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1350	N/A
IMLGL5	100-150W	Type I	3000K	80	4200	91	4000K	80	5000	106	5000K	70	5300	115
		Type III	3000K	80	4400	95	4000K	80	5200	110	5000K	70	5400	117
		Type V	3000K	80	4800	104	4000K	80	5300	113	5000K	70	6000	130
		Type V Wide	3000K	80	4900	99	4000K	80	5200	110	5000K	70	5400	117
IMLGL5 — 90 Minute Emergency Mode	100-150W	Type I	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type III	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
		Type V Wide	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1350	N/A

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Note: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Electrical Specifications — Standard Model ①

Model	Voltage	Input Power	Input Current (Amp)	Power Factor	Total Harmonic Distortion (THD)
IMLGL3	120 Vac	30	0.26	>0.9	< 20%
	277 Vac	30	0.12		
	170 Vdc	30	0.18	N/A	N/A
	300 Vdc	31	0.10		
	347 Vac	33	0.10		
IMLGL5	480 Vac	33	0.07	>0.9	< 20%
	120 Vac	46	0.39	>0.9	< 20%
	277 Vac	46	0.17		
	170 Vdc	46	0.27	N/A	N/A
	300 Vdc	46	0.16		
347 Vac	49	0.14			
IMLGL7	480 Vac	49	0.11	>0.9	< 20%
	120 Vac	57	0.48	>0.9	< 20%
	277 Vac	57	0.23		
	170 Vdc	57	0.34	N/A	N/A
	300 Vdc	57	0.19		
347 Vac	60	0.18			
IMLGL9/IMLGH9	480 Vac	60	0.14	>0.9	< 20%
	120 Vac	75	0.64	>0.9	< 20%
	277 Vac	75	0.29		
	170 Vdc	75	0.45	N/A	N/A
	300 Vdc	75	0.25		
347 Vac	79	0.23			
IMLGH1	480 Vac	79	0.17	>0.9	< 20%
	120 Vac	93	0.79	>0.9	< 20%
	277 Vac	93	0.35		
	170 Vdc	93	0.55	N/A	N/A
	300 Vdc	93	0.31		
347 Vac	97	0.28			
IMLGH3	480 Vac	97	0.21	>0.9	< 20%
	120 Vac	115	0.99	>0.9	< 20%
	277 Vac	115	0.44		
	170 Vdc	115	0.68	N/A	N/A
	300 Vdc	115	0.38		
347 Vac	118	0.34			
IMLGH6	480 Vac	118	0.25	>0.9	< 20%
	120 Vac	145	1.24	>0.9	< 20%
	277 Vac	145	0.54		
	170 Vdc	145	0.86	N/A	N/A
	300 Vdc	145	0.48		
347 Vac	145	0.42			
IMLGX1	480 Vac	145	0.31	>0.9	< 20%
	120 Vac	169	1.43	>0.9	< 20%
	277 Vac	165	0.63		
	170 Vdc	169	1.30	N/A	N/A
	300 Vdc	166	0.64		
347 Vac	171	0.50			
IMLGX5	480 Vac	170	0.37	>0.9	< 20%
	120 Vac	210	1.79	>0.9	< 20%
	277 Vac	204	0.82		
	170 Vdc	209	1.60	N/A	N/A
	300 Vdc	203	0.76		
347 Vac	209	0.61			
	480 Vac	209	0.45	>0.9	< 20%

① All values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

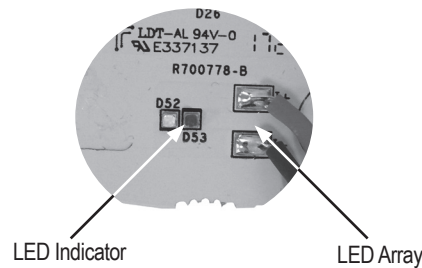
Electrical Specifications — Emergency Battery Backup Model ①

Model	Voltage	Input Power (Watts)	Input Current (Amp)	Power Factor (PF)	Total Harmonic Distortion (THD)
IMLGL3	120 Vac	30	0.26	>0.9	< 20%
	277 Vac	30	0.12		
IMLGL5	120 Vac	46	0.39	>0.9	< 20%
	277 Vac	46	0.17		

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 30 seconds	Lasts for the full duration of the rated emergency period

At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present



LED Signals

Indicator Color	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator Lights (Red and Green) OFF	No AC, Emergency mode ON

① All values are typical (tolerance +/-10%).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

NEC/CEC Ambient Temperature — All Models ①

Model	Maximum Ambient Temperature °C (°F)
IMLGL3	65 (149)
IMLGL3 - A	75 (167)
IMLGL5	65 (149)
IMLGL5 - A	75 (167)
IMLGL7	65 (149)
IMLGL7 - A	75 (167)
IMLGL9	65 (149)
IMLGL9 - A	70 (158)
IMLGH9 - A	70 (158)
IMLGH1	65 (149)
IMLGH1 - A	70 (158)
IMLGH3	65 (149)
IMLGH3 - A	70 (158)
IMLGH6	65 (149)
IMLGX1	60 (140)
IMLGX5	55 (131)

IECCC Temperature Codes — All Models ②

Model ②	Maximum Ambient Temperature °C (°F)
IMLGL3	65 (149)
IMLGL5	65 (149)
IMLGL7	65 (149)
IMLGL7-A	70 (158)
IMLGL9	65 (149)
IMLGH9-A	70 (158)
IMLGH1	65 (149)
IMLGH1 - A	70 (158)
IMLGH3	65 (149)
IMLGH6	65 (149)
IMLGX1	60 (140)
IMLGX5	55 (131)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).

② For 125-170 Vdc, operating Temp. range is -40°C to +55 °C (For IECEx/ATEX only). NEC/CEC operating temp remains -40°C to +65°C (-40 °F to +149 °F) for full Vdc range.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Catalog Number for Driver Housing and Globe or Refractor — Standard Model

Lumen Level	CCT	Optics	Clear Polycarbonate Globe ①②③④⑤	Polycarbonate Diffused Globe ①②③④⑤	Clear Glass Globe ①②③④⑤	Refractor ①②③④⑤
3500	5000K	Type I	IMLGL3CP1	IMLGL3CD1	IMLGL3CG1	—
		Type III	IMLGL3CP3	IMLGL3CD3	IMLGL3CG3	—
		Type V	IMLGL3CP5	IMLGL3CD5	IMLGL3CG5	IMLGL3CJ5
		Type V Wide	IMLGL3CPW	IMLGL3CDW	IMLGL3CGW	—
5500	5000K	Type I	IMLGL5CP1	IMLGL5CD1	IMLGL5CG1	—
		Type III	IMLGL5CP3	IMLGL5CD3	IMLGL5CG3	—
		Type V	IMLGL5CP5	IMLGL5CD5	IMLGL5CG5	IMLGL5CJ5
		Type V Wide	IMLGL5CPW	IMLGL5CDW	IMLGL5CGW	—
7500	5000K	Type I	IMLGL7CP1	IMLGL7CD1	IMLGL7CG1	—
		Type III	IMLGL7CP3	IMLGL7CD3	IMLGL7CG3	—
		Type V	IMLGL7CP5	IMLGL7CD5	IMLGL7CG5	IMLGL7CJ5
		Type V Wide	IMLGL7CPW	IMLGL7CDW	IMLGL7CGW	—
9500 ⑥	5000K	Type I	IMLGL9CP1/IMLGH9CP1	IMLGL9CD1/IMLGH9CD1	IMLGL9CG1/IMLGH9CG1	—
		Type III	IMLGL9CP3/IMLGH9CP3	IMLGL9CD3/IMLGH9CD3	IMLGL9CG3/IMLGH9CG3	—
		Type V	IMLGL9CP5/IMLGH9CP5	IMLGL9CD5/IMLGH9CD5	IMLGL9CG5/IMLGH9CG5	IMLGL9CJ5/IMLGH9CJ5
		Type V Wide	IMLGL9CPW/IMLGH9CPW	IMLGL9CDW/IMLGH9CDW	IMLGL9CGW/IMLGH9CGW	—
11,500	5000K	Type I	IMLGH1CP1	IMLGH1CD1	IMLGH1CG1	—
		Type III	IMLGH1CP3	IMLGH1CD3	IMLGH1CG3	—
		Type V	IMLGH1CP5	IMLGH1CD5	IMLGH1CG5	IMLGH1CJ5
		Type V Wide	IMLGH1CPW	IMLGH1CDW	IMLGH1CGW	—
14,500	5000K	Type I	IMLGH3CP1	IMLGH3CD1	IMLGH3CG1	—
		Type III	IMLGH3CP3	IMLGH3CD3	IMLGH3CG3	—
		Type V	IMLGH3CP5	IMLGH3CD5	IMLGH3CG5	IMLGH3CJ5
		Type V Wide	IMLGH3CPW	IMLGH3CDW	IMLGH3CGW	—
17,500	5000K	Type I	IMLGH6CP1	IMLGH6CD1	IMLGH6CG1	—
		Type III	IMLGH6CP3	IMLGH6CD3	IMLGH6CG3	—
		Type V	IMLGH6CP5	IMLGH6CD5	IMLGH6CG5	IMLGH6CJ5
		Type V Wide	IMLGH6CPW	IMLGH6CDW	IMLGH6CGW	—
20,000	5000K	Type I	IMLGX1CP1	IMLGX1CD1	IMLGX1CG1	—
		Type III	IMLGX1CP3	IMLGX1CD3	IMLGX1CG3	—
		Type V	IMLGX1CP5	IMLGX1CD5	IMLGX1CG5	IMLGX1CJ5
		Type V Wide	IMLGX1CPW	IMLGX1CDW	IMLGX1CGW	—
24,000	5000K	Type I	IMLGX5CP1	IMLGX5CD1	IMLGX5CG1	—
		Type III	IMLGX5CP3	IMLGX5CD3	IMLGX5CG3	—
		Type V	IMLGX5CP5	IMLGX5CD5	IMLGX5CG5	IMLGX5CJ5
		Type V Wide	IMLGX5CPW	IMLGX5CDW	IMLGX5CGW	—

① For 120-277 Vac, 50/60 Hz, add suffix **-BU** to catalog number. For 347-480 Vac, 50/60 Hz, add suffix **-BH** to catalog number.

② For other CCT options, change the 7th digit in part number from "C" to "W" for Warm 3000K CCT or "N" for Neutral 4000K CCT. Example: IMLGL7CP5BU to "W" for Warm, IMLGL7WP5BU.

③ Guards are available for fixtures with globe or refractor. See following pages for accessory ordering information.

④ For fusing add "F" to end of catalog number. Example: IMLGL7CP5BUF.

⑤ Use of fuse voids Marine Outside Type (Salt Water) rating. Only available for cCSAus rating. For additional 10 kV of surge, add "S" to the end of catalog number. Example: IMLGH6CD5BUS.

⑥ IMLGH9 only available with certified High Ambient option (-A).

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Catalog Number for Driver Housing and Globe — Emergency Battery Backup Model

Lumen Level	CCT	Optics	Clear Polycarbonate Globe ①②		Polycarbonate Diffused Globe ①②		Clear Glass Globe ①②	
			90 Min	180 Min	90 Min	180 Min	90 Min	180 Min
3500	5000K	Type I	IMLGL3CP1BUH	IMLGL3CP1BUE	IMLGL3CD1BUH	IMLGL3CD1BUE	IMLGL3CG1BUH	IMLGL3CG1BUE
		Type III	IMLGL3CP3BUH	IMLGL3CP3BUE	IMLGL3CD3BUH	IMLGL3CD3BUE	IMLGL3CG3BUH	IMLGL3CG3BUE
		Type V	IMLGL3CP5BUH	IMLGL3CP5BUE	IMLGL3CD5BUH	IMLGL3CD5BUE	IMLGL3CG5BUH	IMLGL3CG5BUE
		Type V Wide	IMLGL3CPWBUH	IMLGL3CPWBUE	IMLGL3CDWBUH	IMLGL3CDWBUE	IMLGL3CGWBUH	IMLGL3CGWBUE
5500	5000K	Type I	IMLGL5CP1BUH	IMLGL5CP1BUE	IMLGL5CD1BUH	IMLGL5CD1BUE	IMLGL5CG1BUH	IMLGL5CG1BUE
		Type III	IMLGL5CP3BUH	IMLGL5CP3BUE	IMLGL5CD3BUH	IMLGL5CD3BUE	IMLGL5CG3BUH	IMLGL5CG3BUE
		Type V	IMLGL5CP5BUH	IMLGL5CP5BUE	IMLGL5CD5BUH	IMLGL5CD5BUE	IMLGL5CG5BUH	IMLGL5CG5BUE
		Type V Wide	IMLGL5CPWBUH	IMLGL5CPWBUE	IMLGL5CDWBUH	IMLGL5CDWBUE	IMLGL5CGWBUH	IMLGL5CGWBUE

① For other CCT options, change the 7th digit in part number from "C" to "W" for Warm 3000K CCT or "N" for Neutral 4000K CCT. Example: IMLGL7CP5BUH to "W" for Warm, IMLGL7WP5BUH.

② Guards are available. See following pages for accessory ordering information.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations









NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Mounting Hoods — All Models




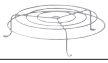



	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			
	3/4" NPT	1.0 (2.3)	KPA-75
	1" NPT		KPA-100
	M20		KPA-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.4)	KPA-75-WT
	1" NPT		KPA-100-WT
	M20		KPA-WT-M20
Pendant Cone — One Hub, Rigid Mounting			
	3/4" NPT	1.1 (2.5)	KPCH-75
	1" NPT		KPCH-100
	M20		KPCH-M20
Trunnion — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	6.1 (13.4)	KPCT-75
	1" NPT		KPCT-100
	M20		KPCT-M20
Ceiling — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.4 (3.0)	KPC-75
	1" NPT		KPC-100
	M20		KPC-M20
Wall — Five Hubs, Four Close-Up Plugs			
	3/4" NPT	1.8 (4.0)	KPWB-75
	1" NPT		KPWB-100
	M20		KPWB-M20
25° Stanchion — One Hub			
	1-1/4" NPT	1.5 (3.3)	KPS-125
	1-1/2" NPT		KPS-150
90° Stanchion — One Hub			
	1-1/4" NPT	1.7 (3.8)	KPST-125
	1-1/2" NPT		KPST-150

Industrial Mercmaster™ LED Generation 3 Series Luminaires




Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Accessories and Replacement Parts — All Models

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard			
	Globe Guard	0.2 (0.4)	MGU1
Safety Cable			
	Stainless steel	0.2 (0.4)	LEDSC
Visor			
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	MMVISOR
Drain Plug			
	76 mm (3") long, 1/2" NPT trade size drain assembly used to divert water existing in the conduit system	0.4 (0.9)	LEDDR3

Mounting Hood Adapters — All Models ①

	Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
	Crouse-Hinds™ Champ® †	Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
	Appleton™ Mercmaster™ II	Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
	Crouse-Hinds™ Champ® †	Wall: TWM2/3 25° Angle Stanchion: JM5 90° Angle Stanchion: PM5	0.9 (2.00)	MMADCHVA
	Appleton™ Mercmaster™ II	Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
	Killark™ ‡	Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

① Adapters are cCSAus rated only.

‡ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Accessories and Replacement Parts — Standard Model

	Light Distribution	Weight in kg (lbs)	Catalog Number
--	--------------------	--------------------	----------------

Prismatic Glass Refractor — All Heat-Resistant ①



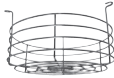
Short Prismatic Glass Refractor — NEMA Type V

1.4 (3.0)

LPG-R5S

	Description	Catalog Number
--	-------------	----------------

Guards



Short Refractor Guard for LPG-R5S

0.3 (0.7)

KRG2S

	Model	Voltage	Driver Wattage	Constant Current Settings	Catalog Number
--	-------	---------	----------------	---------------------------	----------------

Replacement Drivers



IMLGL3

BU

50 Watt

500mA

APMS050C135UD50

BH

500mA

APMS050C135HD50

IMLGL5

BU

50 Watt

780mA

APMS050C135UD78

BH

780mA

APMS050C135HD78

IMLGL7

BU

100 Watt

360mA

APMS100C105UD36

BH

360mA

APMS100C105HD36

IMLGL9 / IMLGH9

BU

100 Watt

480mA

APMS100C105UD48

BH

480mA

APMS100C105HD48

IMLGH1

BU

100 Watt

595mA

APMS100C105UD59

BH

595mA

APMS100C105HD59

IMLGH3

BU

150 Watt

720mA

APMS150C105UD72

BH

720mA

APMS150C105HD72

IMLGH6

BU

150 Watt

900mA

APMS150C105UD90

BH

900mA

APMS150C105HD90

IMLGX1

BU

2 x 100 Watt

520mA

APMS100C105UD52

BH

520mA

APMS100C105HD52

IMLGX5

BU

2 x 150 Watt

650mA

APMS150C105UD65

BH

650mA

APMS100C105HD65




① Glass Prismatic Refractor is cCSAus rated only.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Accessories and Replacement Parts — Emergency Battery Backup Model

Description		Weight in kg (lbs)	Catalog Number		
	Replacement Battery Pack	0.7 (1.5)	BPMLLED		
	Replacement Battery Management Module	0.7 (1.5)	BMMLLED		
Replacement Fuse (Emergency system)		0.2 (0.4)	MLF5		
Model	Voltage	Driver Wattage	Constant Current Settings	Catalog Number	
Replacement Drivers					
	IMLGL3	BU	50 Watt	500mA	APMS050C135UD50
		BH		500mA	APMS050C135HD50
	IMLGL5	BU	50 Watt	780mA	APMS050C135UD78
		BH		780mA	APMS050C135HD78

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Mounting Hood with Factory Installed Photocontrol ① — All Models

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120 V	KPA75PC12
		208 V, 240 V, 277 V	KPA75PC24
	1" NPT	120 V	KPA100PC12
		208 V, 240 V, 277 V	KPA100PC24
Wall	3/4" NPT	120 V	KPWB75PC12
		208 V, 240 V, 277 V	KPWB75PC24
	1" NPT	120 V	KPWB100PC12
		208 V, 240 V, 277 V	KPWB100PC24
25° Stanchion	1-1/4" NPT stanchion	120 V	KPS125PC12
		208 V, 240 V, 277 V	KPS125PC24
	1-1/2" NPT stanchion	120 V	KPS150PC12
		208 V, 240 V, 277 V	KPS150PC24
90° Stanchion	1-1/4" NPT stanchion	120 V	KPST125PC12
		208 V, 240 V, 277 V	KPST125PC24
	1-1/2" NPT stanchion	120 V	KPST150PC12
		208 V, 240 V, 277 V	KPST150PC24



Luminaire Weights — All Models

Model	Lumen Outputs	Weight in kg (lbs)
Standard Models		
IMLGL3	3500	9.20 (20.3)
IMLGL5	5500	9.20 (20.3)
IMLGL7	7500	9.20 (20.3)
IMLGL9	9500	9.20 (20.3)
IMLGH9	9500	12.00 (26.4)
IMLGH1	11,500	12.00 (26.4)
IMLGH3	14,500	12.00 (26.4)
IMLGH6	17,500	12.00 (26.4)
IMLGX1	20,000	13.15 (29.0)
IMLGX5	25,000	13.15 (29.0)
Emergency Battery Backup Models		
IMLGL3H	3500	10.5 (23.2)
IMLGL5H	5500	10.5 (23.2)

① Fixtures with photocontrols are rated Type 3R.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

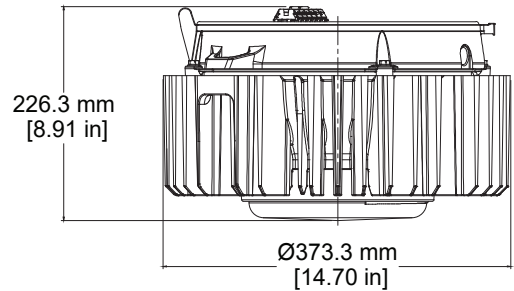
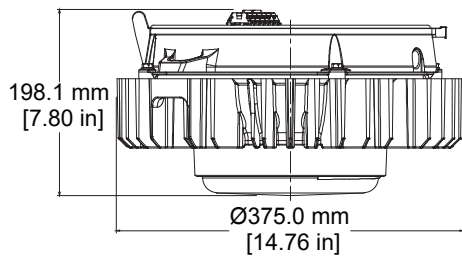
NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Dimensional Drawings

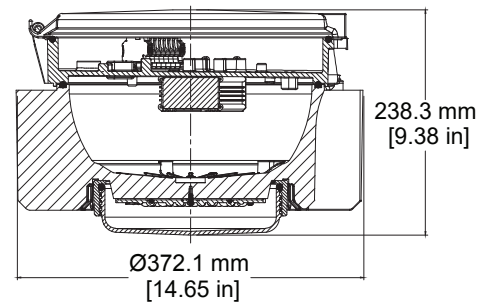
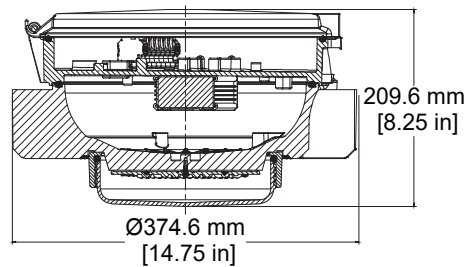
IMLGL3 to IMLGL9

IMLGH6 to IMLGH9 and IMLGX1 to IMLGX5

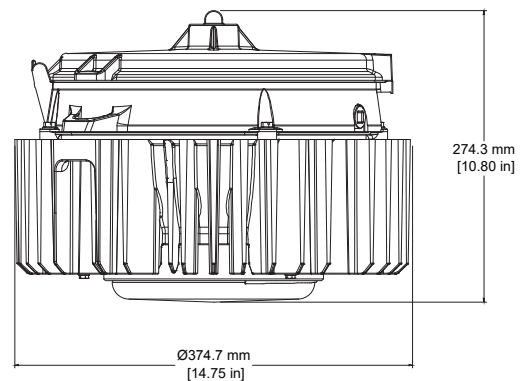
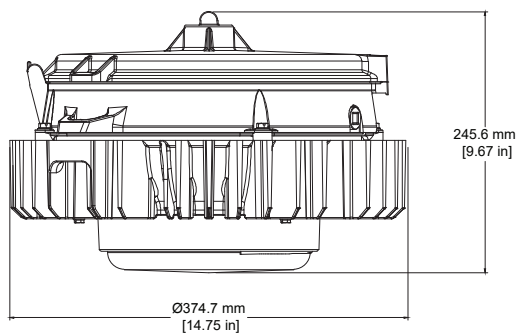
Driver Housing



Pendant



Watertight Pendant



Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

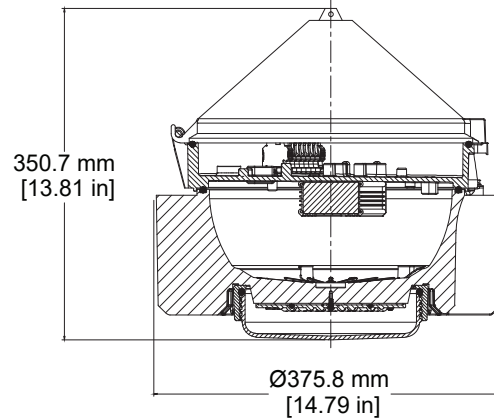
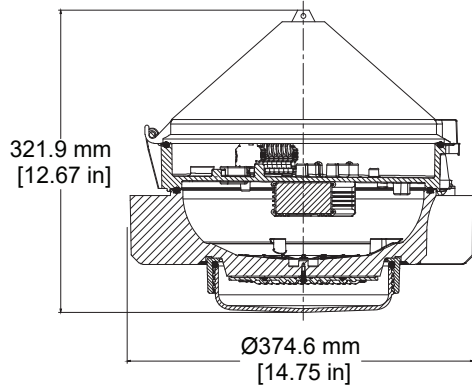
NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Dimensional Drawings

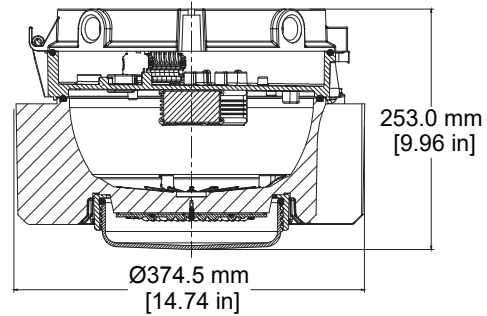
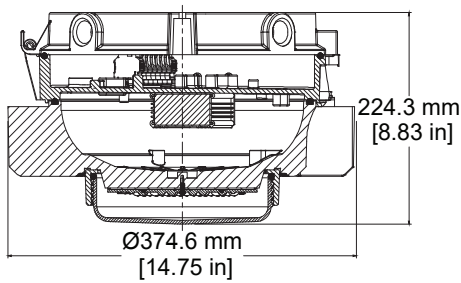
IMLGL3 to IMLGL9

IMLGH6 to IMLGH9 and IMLGX1 to IMLGX5

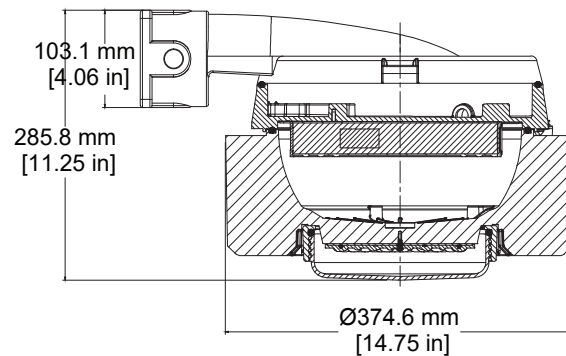
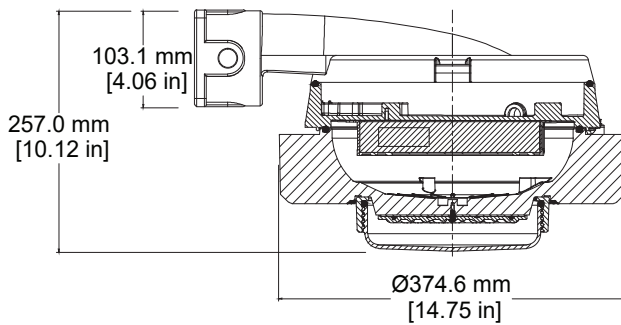
Pendant Cone



Ceiling



Wall Mount



Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

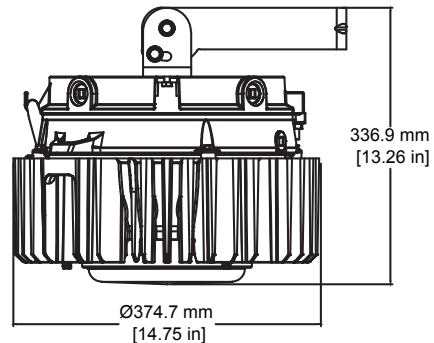
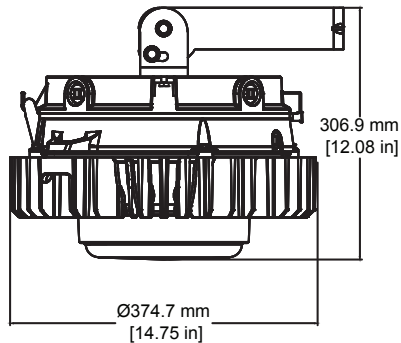
NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Dimensional Drawings

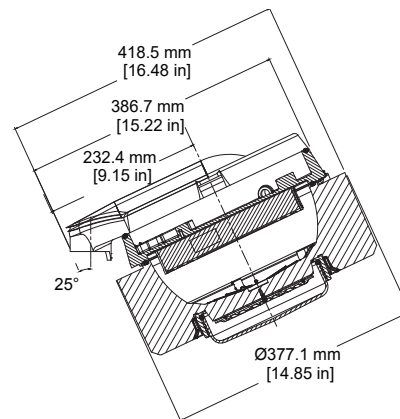
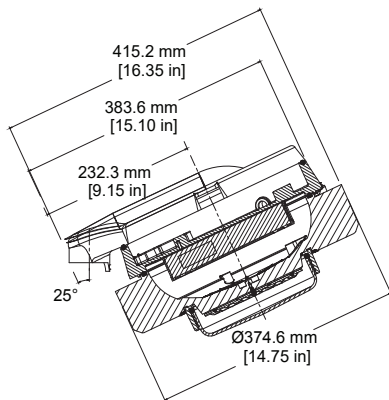
IMLGL3 to IMLGL9

IMLGH6 to IMLGH9 and IMLGX1 to IMLGX5

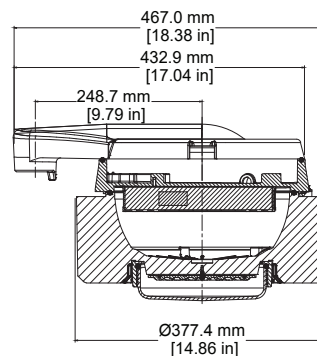
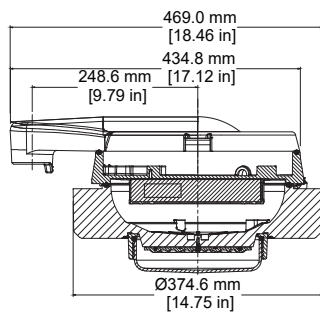
Trunnion Mount



25° Stanchion Mount



90° Stanchion Mount



Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations

IECEE CB Standard Model: IP66 | IK08

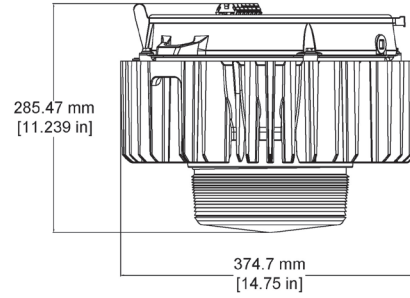
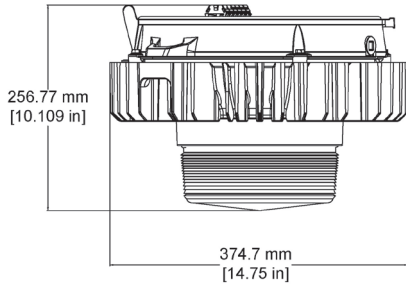
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

Dimensional Drawings

IMLGL3 to IMLGL9

IMLGH6 to IMLGH9 and IMLGX1 to IMLGX5

Driver Housing with Short Prismatic Glass Refractor ①



① For additional configurations dimensions, review the Product Drawing configurator page on the website.

Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

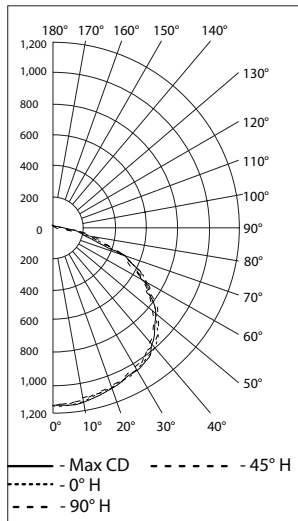
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAL33CP5

Luminaire Lumens 3,783

POLAR CANDELA DISTRIBUTION

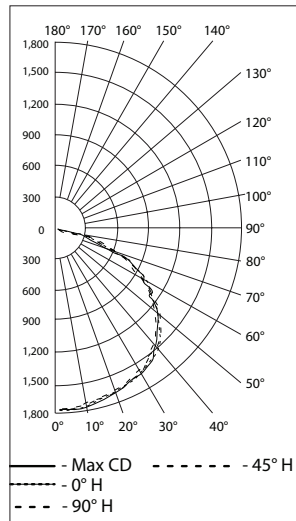


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAL53CP5

Luminaire Lumens 5,660

POLAR CANDELA DISTRIBUTION

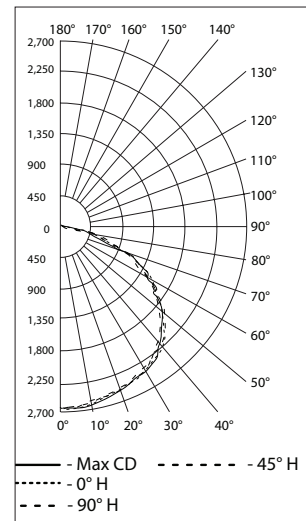


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAL73CP5

Luminaire Lumens 8,524

POLAR CANDELA DISTRIBUTION

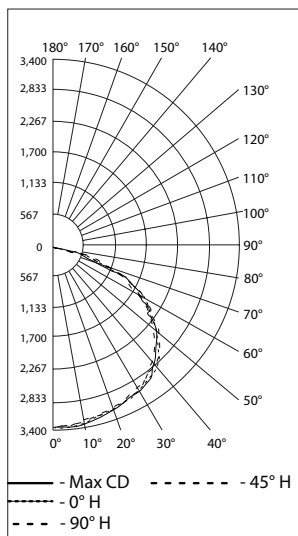


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAH93CP5 / IMLGAL93CP5

Luminaire Lumens 10,845

POLAR CANDELA DISTRIBUTION

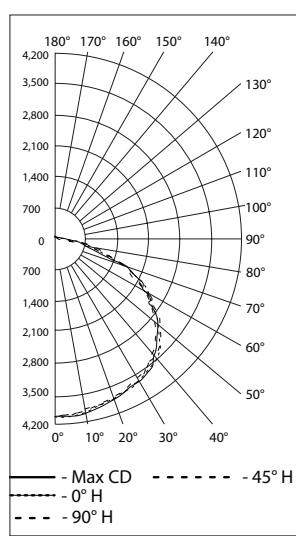


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAH13CP5

Luminaire Lumens 13,204

POLAR CANDELA DISTRIBUTION

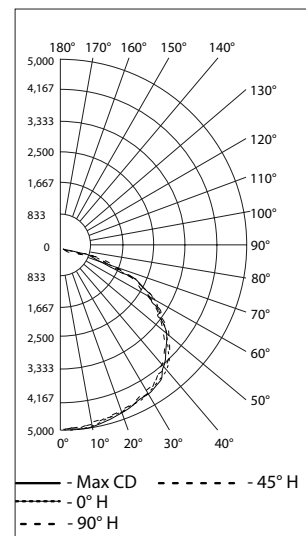


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAH33CP5

Luminaire Lumens 15,937

POLAR CANDELA DISTRIBUTION



Industrial Mercmaster™ LED Generation 3 Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC/NOM Standard Model: Type 3R, 4, 4X | IP66 | IK08 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water)
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | IK08 | Suitable for Use in Wet Locations
IECEE CB Standard Model: IP66 | IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved

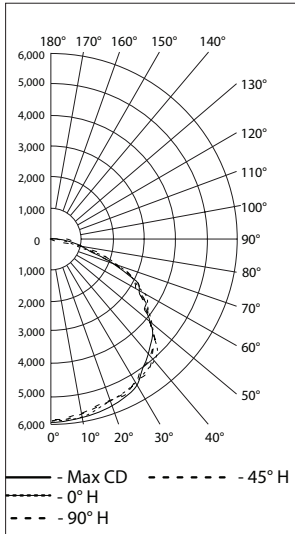
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAH63CP5

Luminaire Lumens 19,107

POLAR CANDELA DISTRIBUTION

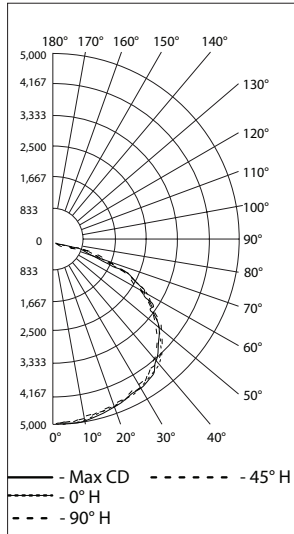


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAX1CP5BU

Luminaire Lumens 21,019

POLAR CANDELA DISTRIBUTION

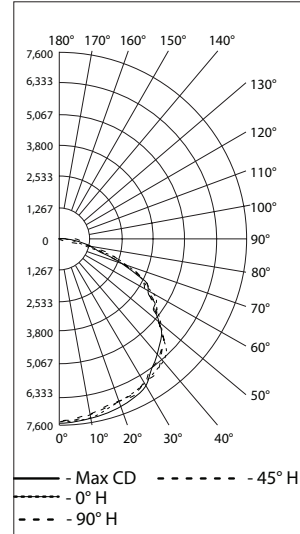


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLGAX5CP5BU

Luminaire Lumens 24,947

POLAR CANDELA DISTRIBUTION

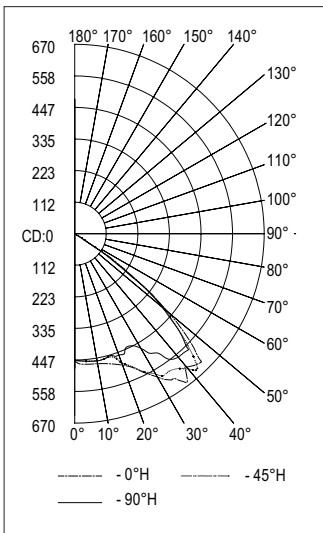


Type V, Clear Glass, 5000K CCT, Emergency

REPORT NUMBER: IMLGL3CG5BUH+EMR

Luminaire Lumens 1,422

POLAR CANDELA DISTRIBUTION

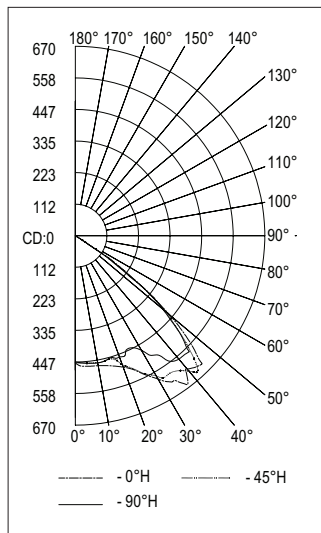


Type V, Clear Glass, 5000K CCT, Emergency

REPORT NUMBER: IMLGL5CG5BUH+EMR

Luminaire Lumens 1,422

POLAR CANDELA DISTRIBUTION



Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of harsh industrial environments
 - Marine and wet locations
 - Areas of low clearance, low ceiling heights or where fixture weights must be minimized
 - Areas where dust, water, dirt and rough usage are a problem
- Typical applications include:
 - Walkways and catwalks
 - Stairwells
 - Tunnels
 - Pipe racks
 - Processing areas
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- All Models:
 - Compact light weight low profile design is suited for low mounting heights.
 - Four light output levels provide up to 5500 lumens. 7500 lumens.
- | Standard Mode | | |
|------------------|----------------|---------|
| Nominal Lumens ① | HID Equivalent | Model |
| 3500 | 70-100W | IMLLED2 |
| 4750 | 100-150W | IMLLED3 |
| 6000 | 150-175W | IMLLED4 |
| 7460 | 175-250W | IMLLED7 |
- Choice of color temperature (CCT): 5000K cool white (70 CRI min), 4000K neutral white (80 CRI min), 3000K warm white (80 CRI min), 1800K high pressure sodium (70 CRI min), or yellow amber.
 - Seven standard mounting hood designs allow for mounting in any location. Uses same mounting hoods as Mercmaster™ III HID, Mercmaster™ Premium LED and Mercmaster™ Generation 3.
 - Retrofit adapters for Crouse Hinds™ †, Mercmaster™ II HID, and Killark™ ‡ available. See Mercmaster™ Adapters.
 - Watertight Pendant Hood available to address water ingress into luminaire via conduit.
 - Hinge has high lip for added safety during installation and servicing. Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
 - Rugged housing with superior thermal design translates to long luminaire life.
 - Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment.
 - Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression.
 - Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.



KPA + IMLLED + VPGL-GLASS



KPCH + IMLLED + LPG-R55

— Reported L70:

+25 °C (+77 °F)	Reported	> 60000
	Calculated	> 200000
+65 °C (+149 °F)	Reported	> 60000
	Calculated	> 200000

— Photometric data and electronic drawings available upon request.

Standard Model:

— Customize to the application requirements with four different field replaceable globe options: clear and diffused polycarbonate, clear glass, or prismatic glass refractor.

— Voltages:

- BU: 100-277 Vac or 125-300 Vdc
- BH: 347-480 Vac
- B2: 24-48 Vdc

— Ambient Temperature:

- BU and B2: -40 °C to +65 °C (-40 °F to +149 °F) standard; -50 °C to +65 °C (-58 °F to +149 °F) cold temperature option
- BH: -40 °C to +65 °C (-40 °F to +149 °F) standard

— Field replaceable globes and LED driver.

— Standard 6 kV/3 kA surge protection.

Emergency Battery Backup Model:

- Provides up to 1700 lumens of illumination for 90 minutes or 1000 lumens of illumination for 180 minutes of emergency lighting with clear lens.
- Functional diagnostic test self-initiates every 14 days after initial start up.
- Duration test is automatically performed once per year.
- Green and Red LED lamps indicate charging status and provide fault warning.
- Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance.
- Customize to the application requirements with three different field replaceable globe options: clear and diffused polycarbonate, or clear glass.
- Ambient Temperature: BU: -20 °C to +55 °C (-4 °F to +131 °F).
- Field replaceable globes, battery management module (BMM), battery pack and LED driver.

① Nominal lumen value for 5000K, clear glass globe Type V Wide. Detailed lumen information is provided in the "Lumen Output (Efficacy)" tables.

‡ Killark is a registered trademark of Killark Manufacturing Company.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Warranty ⌘

- 10 year standard warranty.

Controls

- Dimming:
 - Industrial Mercmaster LED Low Profile Luminaires offer a two-wire, 0-10V variable dimming input port for controlling the light output:
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Industrial Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- All Models:
 - Globe guard available, *purchase separately*
 - Safety cable available, *purchase separately*
 - For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies.
- Standard Model:
 - Refractor guard available, *purchase separately*
 - All NEC/CEC Certified Industrial Mercmaster Luminaires have provision for fusing; add suffix –F to the catalog number, see *Catalog Numbering Guide for details*.
 - All Industrial Mercmaster LED Low Profile Luminaires are available with a cold temperature option; add suffix –C to the catalog number, see *Catalog Numbering Guide for details*.
 - Photocontrols are available and are configured to your operating voltage. Add suffix -1 for 120V, -2 for 208-277V.
 - Colored Glass globes available, purchase separately: Amber (VPGLGLASSAM), Blue (VPGLGLASSBL), Red (VPGLGLASSRE), Green (VPGLGLASSGR)

Standard Materials

- Mounting hoods and housing: cast copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- Globe: polycarbonate or glass
- Refractor: heat-resistant prismatic glass
- Globe guard, short refractor guard and safety cable: stainless steel wire

Standard Finishes

- Mounting hoods, driver housing and glass refractor guard: gray epoxy powder coat finish, electrostatically applied for complete uniform protection.

NEC/CEC Certifications and Compliances

- Standard Model:
 - UL Standard: UL 1598; UL 8750; UL 1598A, UL 50E
 - CSA Standard: C22.2 No. 250.0; C22.2 No. 250.13; C22.2 No. 0; C22.2 No. 94.2
 - NEMA ANSI/IEC Standard: 60529
 - cCSAus: 164460, Certificate Number: 70129363
- Emergency Battery Backup Model:
 - UL Standard: UL 1598; UL 8750; UL 924; UL 50E
 - CSA Standard: C22.2 No. 250.0; C22.2 No. 250.13; C22.2 No. 0; C22.2 No. 94.2; C22.2 No. 141
 - cCSAus: 164460, Certificate Number: 70172444

IECEE CB Certificates and Compliances:

- Standard Model:
 - IEC 60598-1, IEC 60598-2-1
 - IECEE CB Certificates: 64460-80075816
 - Photobiological Safety, IEC 62778 and IEC 62471: RG0

NOM: Norma Oficial Mexicana:

- Standard Model:
 - NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
 - NOM Certificate: ULM-NOM-06823

ABS Certifications

- Standard Model: 18-HS1714308-PDA
- Emergency Battery Backup Model: 22-2207901-PDA

International Dark-Sky Association

- Standard Model:
 - IDA Dark-Sky Approved when ordering [I]MLED[A/B/C/D/R/W] [2/3/4]W[P/D/G]5Bxxx with MMVISOR accessory.

Chile Zoning Compliant

- Zone A Compliant when ordering [I]MLEDx xxA[P/D/G]5Bxxx
- Zone B Compliant when ordering [I]MLEDx xx[S/A][P/D/G]5Bxxx

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Mercmaster Connect LED Luminaires
- Mercmaster LED Generation 3 Series Luminaires
- Mercmaster LED Low Profile Luminaires
- Industrial Mercmaster Connect LED Luminaires
- Industrial Mercmaster LED Generation 3 Series Luminaires

⌘ For warranty details go to www.appleton.emerson.com.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Illustrated Features — All Models



Group Lighting Controls:
Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster Connect LED integrated dimming controller by daisy chaining the dimming leads from the group of lights.



Bulkhead Application:
When using the surface/ceiling mount, the Industrial Mercmaster LED Low Profile can be mounted up to 90 degrees with no dust accumulation.



Watertight Pendant Hood:
Provides protection against water ingress in the conduit utilizing an IP68 cord grip with 3 wire holes 4 mm (0.157") in diameter.



Latch Assembly and Hinge:
Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.



Field Replaceable Parts:
Replacement glass and polycarbonate globes and drivers available — allowing for easy maintenance.



Visor (optional):
When installed correctly, maintains light distribution type and ensures luminaire meets dark sky requirements.



Retrofit Adapters (optional):
Seamlessly retrofit to pre-existing Crouse Hinds™ †, Mercmaster II, and Killark™ † HID mounting hoods.



Safety Cable (optional): Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

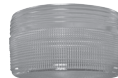
Illustrated Features — Standard Model



Photocell (optional):
Factory Installed in the Mounting Hood. Available for all fixtures except cone and ceiling mount. Provides continuous ON-OFF dusk-to-dawn control.



Fuses (optional):
Fuses factory installed in luminaire housing.



Prismatic Refractors:
Heat-resistant refractor threads directly into fixture housing and seal against a high-temperature silicone rubber gasket.

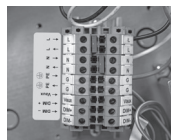


Colored Glass Globes (optional):
Amber, Blue, Red, Green are available and field installable for applications that require specific sections to be highlighted.

Illustrated Features — Emergency Battery Backup Model



Quick Disconnect:
Simple quick disconnect connector disconnects power between LEDs and battery management module to allow for easy maintenance.



Field Changeable Emergency Setting:
Allows user to switch the battery system setting as needed in the field to go from 90 to 180 min or 180 to 90 min battery.



Battery (optional):
Field replaceable battery pack and battery management module — allowing for easy maintenance.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

† Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

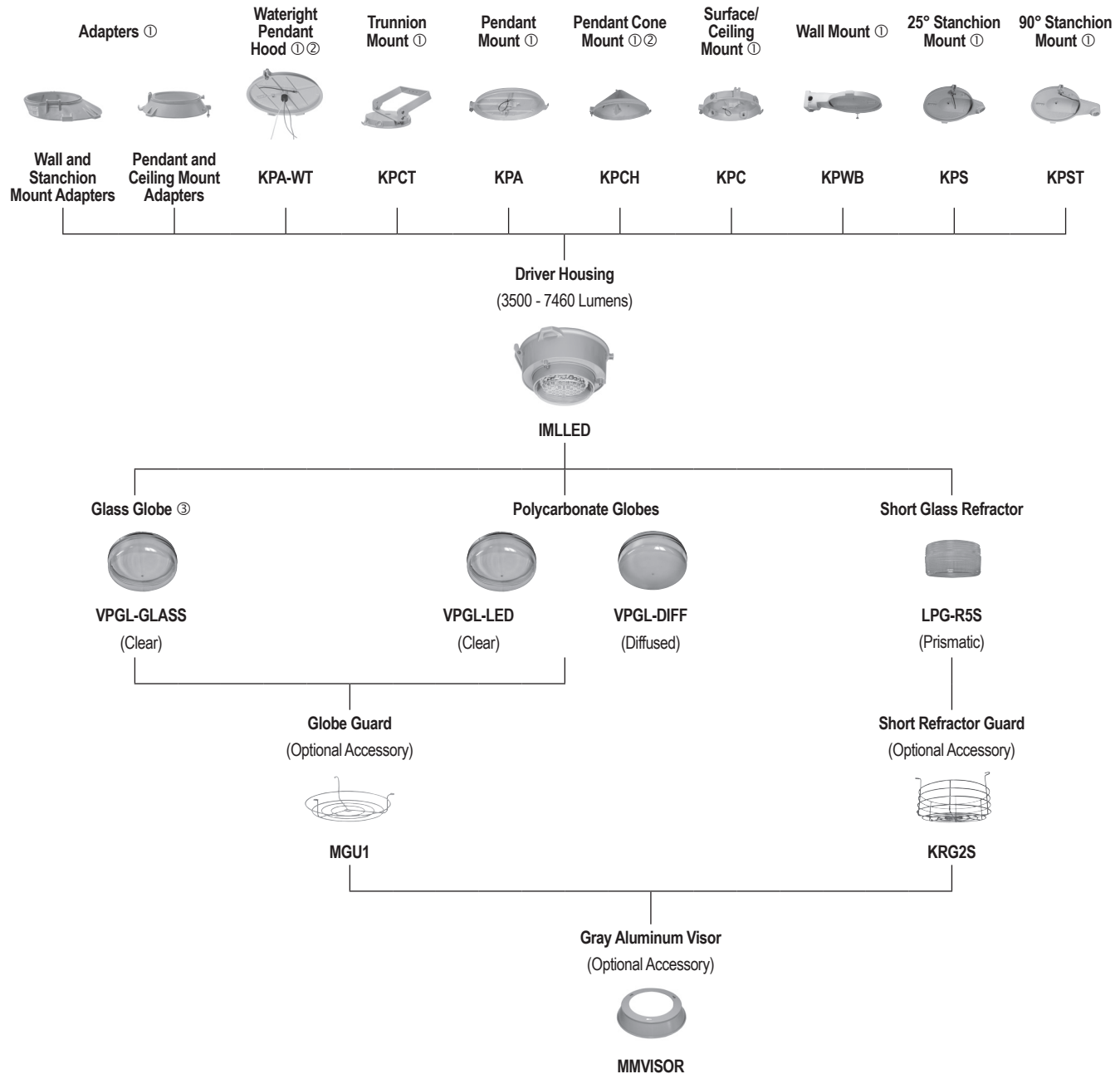
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Family Tree — Industrial Mercmaster™ LED Low Profile Series Luminaires — Standard Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

③ Colored glass globes can be ordered separately, see Accessories and Replacement Parts table for more details.

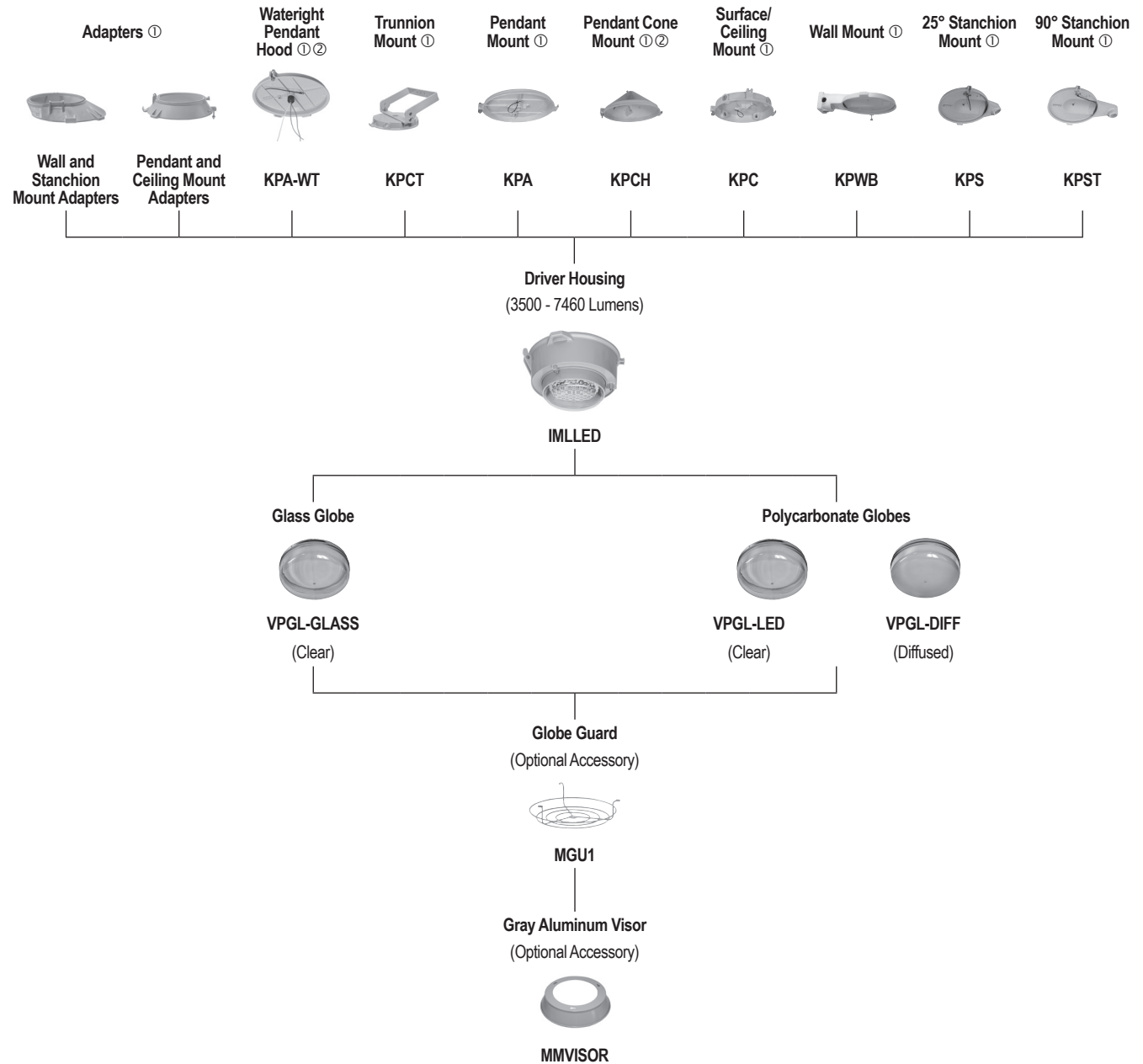
⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Family Tree — Industrial Mercmaster™ LED Low Profile Series Luminaires — Emergency Battery Backup Model



① See Mounting Hood Adapters table for part numbers.

② Certified for cCSAus only.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Order Using Catalog Numbering Guide — Industrial Mercmaster™ LED Low Profile Series Luminaires — Standard Model

IMLLED	A	4	2	C	P	5	BU	F	C	1
Series Prefix: IMLLED - Industrial Mercmaster LED Low Profile Series	Mounting:	Lumen (nominal): ② 2 - 3,300 3 - 4,400 4 - 5,500 7 - 7,500 ⑩	Hub Size: ① ⑦ 2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 † Blank - No hub if using adapter or ordering driver housing only (no mounting hood)	Color Temperature: ‡ C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K S - HPS, 1800K CCT A - Yellow Amber	Globe Material: ③ P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe J - Glass Prismatic Refractor	Light Distribution Pattern: 5 - Type V	Voltage: ⑧ ⑨ BU - 100-277 Vac, 50/60 Hz; 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ▲ B2 - 24-48 Vdc	Fusing: ④ F - Fusing Blank - No fusing	Operating Temperature: ⑨ C - Cold Temperature -50 °C (-58 °F) Min. Ambient Blank - Standard -40 °C (-40 °F) Min. Ambient	Options: 1 - Photocontrol 120V ⑤ 2 - Photocontrol 208- 277V ⑤ Blank - No Options Chosen

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guards for the refractor and globes are ordered separately. See the Accessories for more information.

④ Fusing only permitted for cCSAus rating. Factory installed. Use of fuse voids Marine Outside Type (Salt Water) rating. Fusing is mounted in the driver housing. For retrofit applications, fusing must be removed from the mounting hood and ordered in the luminaire.

⑤ Luminaires with photocontrol are not rated IP66/67, Marine Outside Type (Salt Water), or Class II and voids the NEMA ratings on the fixture but remains suitable for use in wet locations. Photocontrol available for 120-277 Vac only.

⑥ Ceiling and pendant cone hood mounted luminaires are not designed to use the PCD2 photocontrol. Ceiling mounts can be used with a FS/FD box with a photocontrol. Contact your local sales representative for more information.

⑦ Hub size does not apply to luminaires ordered with adapters.

⑧ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for BU/BH voltage options at standard temperature and 0% to 100% dimming curve for B2 voltage or cold temperature models.

⑨ Cold temperature option is available for use with BU (100-277 Vac), or B2 (24-48 Vdc) voltages only. Not available with Photocontrol.

⑩ Operating temperature range is -40 °C to +60 °C (-40 °F to +140 °F) for BU/BH standard; -50 °C to +60 °C (-58 °F to +140 °F) for BU/BH cold temperature; -40 °C to +65 °C (-40 °F to +149 °F) for B2 standard; -40 °C to +65 °C (-58 °F to +149 °F) for B2 cold temperature.

† Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters, watertight pendant hood and BH Voltage only certified for cCSAus. Adapters and BH Voltage are not available for use with photocontrol.

↳ Killark is a registered trademark of Hubbell Incorporated.

↳ Crouse-Hinds is a registered trademark of Cooper Industries, Inc. a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Mercmaster™ LED Low Profile Series Luminaires — Emergency Battery Backup Model

<p>IMLED</p> <p>Series Prefix: MLED - NEC/CEC Certified Industrial Mercmaster LED Low Profile Series with Emergency Battery Backup</p>	<p>A</p> <p>Mounting:</p> <p>A - Pendant B - Watertight Pendant ▲ C - Surface/Ceiling ✦ D - Pendant Cone ▲ R - 90° Stanchion ① S - 25° Stanchion ① T - Trunnion ✦ K - Killark™ ✦ Adapter Universal ▲ U - Mercmaster II Adapter, Ceiling or Pendant ▲④ V - Mercmaster II Adapter, Stanchion or Wall ▲④ W - Wall ✦ X - Crouse Hinds™ ✦ Adapter, Ceiling or Pendant ▲ Y - Crouse Hinds™ ✦ Adapter, Stanchion or Wall ▲ Blank - No mounting hood</p>	<p>4</p> <p>Lumen (nominal): ②</p> <p>2 - 3,300 3 - 4,400 4 - 5,500 7 - 7,500</p>	<p>2</p> <p>Hub Size: ① ④</p> <p>2 - 3/4" NPT 3 - 1" NPT 4 - 1-1/4" NPT stanchion 5 - 1-1/2" NPT stanchion 6 - Metric M20 ✦ Blank - No hub if using adapter or ordering driver housing only (no mounting hood)</p>	<p>C</p> <p>Color Temperature: ‡</p> <p>C - Cool, 5000K N - Neutral, 4000K W - Warm, 3000K S - HPS, 1800K CCT A - Yellow Amber</p>	<p>P</p> <p>Globe Material: ③</p> <p>P - Clear Polycarbonate Globe D - Diffused Polycarbonate Globe G - Clear Glass Globe</p>	<p>5</p> <p>Light Distribution Pattern: 5 - Type V</p>	<p>BU</p> <p>Voltage: ⑤</p> <p>BU - 120-277 Vac, 50/60 Hz</p>	<p>H</p> <p>Emergency: ⑥</p> <p>H - 90 Minutes E - 180 Minutes</p>
---	---	--	---	---	--	---	--	---

① 3/4" NPT, 1" NPT and Metric M20 hub entries are not offered in 90° and 25° Stanchion mounting options.

② For lumen output information, see Lumen Output (Efficacy) Table.

③ Guard for the globe must be ordered separately. See the Accessories for more information.

④ Hub size does not apply to luminaires ordered with adapters.

⑤ All luminaires ship standard with a two-wire, 0-10V variable dimming input port for controlling the light output from 10% to 100% of the rated lumen output. Luminaire cannot be dimmed in emergency mode.

✦ Metric M20 hub size is only available with Ceiling, Trunnion and Wall mount options.

‡ Other CCT options available upon request. Contact your local sales representative for more information.

▲ Adapters and watertight pendant hood only certified for cCSAus.

✦ Killark is a registered trademark of Hubbell Incorporated.

✦ Crouse-Hinds is a registered trademark of Cooper Industries, Inc. a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Lumen Output (Efficacy) — Standard Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe														
IMLLED2	70-100W	Type V	3000K	80	2900	104	4000K	80	3000	107	5000K	70	3400	121
IMLLED3	100-150W	Type V	3000K	80	3850	101	4000K	80	4000	105	5000K	70	4550	120
IMLLED4	150-175W	Type V	3000K	80	4850	101	4000K	80	5000	104	5000K	70	5700	119
IMLLED7	175-250W	Type V	3000K	80	5480	107	4000K	80	5670	111	5000K	70	7080	139
IMLLED2	70-100W	Type V	1800K	70	2570	76	Amber	N/A	2240	66				
IMLLED3	100-150W	Type V	1800K	70	2955	74	Amber	N/A	2570	64				
IMLLED4	150-175W	Type V	1800K	70	3540	75	Amber	N/A	3060	64				
IMLLED7	175-250W	Type V	1800K	70	4400	88	Amber	N/A	3850	77				
Diffused Polycarbonate Globe														
IMLLED2	70-100W	Type V	3000K	80	2850	102	4000K	80	3000	107	5000K	70	3400	121
IMLLED3	100-150W	Type V	3000K	80	3800	100	4000K	80	4000	105	5000K	70	4500	118
IMLLED4	150-175W	Type V	3000K	80	4700	98	4000K	80	5000	104	5000K	70	5700	119
IMLLED7	175-250W	Type V	3000K	80	5390	106	4000K	80	5580	109	5000K	70	6960	136
IMLLED2	70-100W	Type V	1800K	70	2540	75	Amber	N/A	2220	65				
IMLLED3	100-150W	Type V	1800K	70	2920	73	Amber	N/A	2530	63				
IMLLED4	150-175W	Type V	1800K	70	3490	73	Amber	N/A	3020	64				
IMLLED7	175-250W	Type V	1800K	70	4300	86	Amber	N/A	3780	76				
Clear Glass Globe														
IMLLED2	70-100W	Type V	3000K	80	3000	107	4000K	80	3100	111	5000K	70	3500	125
IMLLED3	100-150W	Type V	3000K	80	3975	105	4000K	80	4175	110	5000K	70	4750	125
IMLLED4	150-175W	Type V	3000K	80	5000	104	4000K	80	5300	110	5000K	70	6000	125
IMLLED7	175-250W	Type V	3000K	80	5720	112	4000K	80	5920	116	5000K	70	7460	146
IMLLED2	70-100W	Type V	1800K	70	2685	79	Amber	N/A	2350	69				
IMLLED3	100-150W	Type V	1800K	70	3090	77	Amber	N/A	2690	67				
IMLLED4	150-175W	Type V	1800K	70	3600	75	Amber	N/A	3200	67				
IMLLED7	175-250W	Type V	1800K	70	4600	92	Amber	N/A	4050	81				
Glass Prismatic Refractor														
IMLLED2	70-100W	Type V	3000K	80	2835	101	4000K	80	3000	107	5000K	70	3450	123
IMLLED3	100-150W	Type V	3000K	80	3700	97	4000K	80	4050	107	5000K	70	4600	121
IMLLED4	150-175W	Type V	3000K	80	4500	94	4000K	80	5100	106	5000K	70	5800	121
IMLLED7	175-250W	Type V	3000K	80	5370	105	4000K	80	5550	109	5000K	70	6850	134
IMLLED2	70-100W	Type V	1800K	70	2570	76	Amber	N/A	2250	66				
IMLLED3	100-150W	Type V	1800K	70	2565	64	Amber	N/A	2590	65				
IMLLED4	150-175W	Type V	1800K	70	3545	75	Amber	N/A	3080	65				
IMLLED7	175-250W	Type V	1800K	70	4200	84	Amber	N/A	3700	74				

① All lumen values are typical (tolerance +/- 10%).

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Emergency Battery Backup Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate Globe — Standard Mode														
IMLLED2	70-100W	Type V	3000K	70	3000	91	4000K	70	3200	97	5000K	70	3200	97
IMLLED3	100-150W	Type V	3000K	70	3900	98	4000K	70	4200	105	5000K	70	4200	105
IMLLED4	150-175W	Type V	3000K	70	4900	100	4000K	70	5000	102	5000K	70	5300	108
IMLLED7	175-250W	Type V	3000K	70	5480	98	4000K	70	5670	101	5000K	70	7080	126
IMLLED2	70-100W	Type V	1800K	70	2570	71	Amber	N/A	2240	62				
IMLLED3	100-150W	Type V	1800K	70	2955	66	Amber	N/A	2570	57				
IMLLED4	150-175W	Type V	1800K	70	3540	67	Amber	N/A	3060	58				
IMLLED7	175-250W	Type V	1800K	70	3720	66	Amber	N/A	3850	69				
Clear Polycarbonate Globe — 90 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
IMLLED3	100-150W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
IMLLED4	150-175W	Type V	3000K	70	1150	N/A	4000K	70	1270	N/A	5000K	70	1400	N/A
IMLLED7	175-250W	Type V	3000K	70	1425	N/A	4000K	70	1475	N/A	5000K	70	1625	N/A
IMLLED2	70-100W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
IMLLED3	100-150W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
IMLLED4	150-175W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
IMLLED7	175-250W	Type V	1800K	70	930	N/A	Amber	N/A	830	N/A				
Clear Polycarbonate Globe — 180 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
IMLLED3	100-150W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
IMLLED4	150-175W	Type V	3000K	70	625	N/A	4000K	70	700	N/A	5000K	70	775	N/A
IMLLED7	175-250W	Type V	3000K	70	825	N/A	4000K	70	875	N/A	5000K	70	950	N/A
IMLLED2	70-100W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
IMLLED3	100-150W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
IMLLED4	150-175W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
IMLLED7	175-250W	Type V	1800K	70	550	N/A	Amber	N/A	490	N/A				
Diffused Polycarbonate Globe — Standard Mode														
IMLLED2	70-100W	Type V	3000K	70	2900	88	4000K	70	3100	94	5000K	70	3100	94
IMLLED3	100-150W	Type V	3000K	70	3800	95	4000K	70	3900	98	5000K	70	4100	103
IMLLED4	150-175W	Type V	3000K	70	4800	98	4000K	70	4900	100	5000K	70	5150	105
IMLLED7	175-250W	Type V	3000K	70	5390	96	4000K	70	5580	100	5000K	70	6960	124
IMLLED2	70-100W	Type V	1800K	70	2540	71	Amber	N/A	2220	62				
IMLLED3	100-150W	Type V	1800K	70	2920	65	Amber	N/A	2530	56				
IMLLED4	150-175W	Type V	1800K	70	3490	66	Amber	N/A	3020	57				
IMLLED7	175-250W	Type V	1800K	70	3690	66	Amber	N/A	3780	68				
Diffused Polycarbonate Globe — 90 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
IMLLED3	100-150W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
IMLLED4	150-175W	Type V	3000K	70	1100	N/A	4000K	70	1200	N/A	5000K	70	1350	N/A
IMLLED7	175-250W	Type V	3000K	70	1400	N/A	4000K	70	1450	N/A	5000K	70	1600	N/A
IMLLED2	70-100W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
IMLLED3	100-150W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
IMLLED4	150-175W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				
IMLLED7	175-250W	Type V	1800K	70	900	N/A	Amber	N/A	800	N/A				

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

② 70 minimum.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

With Emergency Battery Backup
Ordinary Locations

NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Emergency Battery Backup Model ①②

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe — 180 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
IMLLED3	100-150W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
IMLLED4	150-175W	Type V	3000K	80	600	N/A	4000K	80	675	N/A	5000K	70	750	N/A
IMLLED7	175-250W	Type V	3000K	80	800	N/A	4000K	80	850	N/A	5000K	70	925	N/A
IMLLED2	70-100W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
IMLLED3	100-150W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
IMLLED4	150-175W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
IMLLED7	175-250W	Type V	1800K	70	540	N/A	Amber	N/A	470	N/A				
Clear Glass Globe — Standard Mode														
IMLLED2	70-100W	Type V	3000K	80	3100	94	4000K	80	3100	94	5000K	70	3300	100
IMLLED3	100-150W	Type V	3000K	80	4100	103	4000K	80	4200	105	5000K	70	4400	110
IMLLED4	150-175W	Type V	3000K	80	5000	102	4000K	80	5200	106	5000K	70	5500	112
IMLLED7	175-250W	Type V	3000K	80	5720	102	4000K	80	5920	106	5000K	70	7460	133
IMLLED2	70-100W	Type V	1800K	70	2685	75	Amber	N/A	2350	65				
IMLLED3	100-150W	Type V	1800K	70	3090	69	Amber	N/A	2690	60				
IMLLED4	150-175W	Type V	1800K	70	3600	68	Amber	N/A	3200	60				
IMLLED7	175-250W	Type V	1800K	70	3850	69	Amber	N/A	4050	72				
Clear Glass Globe — 90 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
IMLLED3	100-150W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
IMLLED4	150-175W	Type V	3000K	80	1200	N/A	4000K	80	1330	N/A	5000K	70	1450	N/A
IMLLED7	175-250W	Type V	3000K	80	1500	N/A	4000K	80	1550	N/A	5000K	70	1700	N/A
IMLLED2	70-100W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
IMLLED3	100-150W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
IMLLED4	150-175W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
IMLLED7	175-250W	Type V	1800K	70	960	N/A	Amber	N/A	860	N/A				
Clear Glass Globe — 180 Minute Emergency Mode														
IMLLED2	70-100W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
IMLLED3	100-150W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
IMLLED4	150-175W	Type V	3000K	80	675	N/A	4000K	80	725	N/A	5000K	70	800	N/A
IMLLED7	175-250W	Type V	3000K	80	850	N/A	4000K	80	900	N/A	5000K	70	1000	N/A
IMLLED2	70-100W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
IMLLED3	100-150W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
IMLLED4	150-175W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				
IMLLED7	175-250W	Type V	1800K	70	570	N/A	Amber	N/A	510	N/A				

① All lumen values are typical (tolerance +/-10%). For Lumen Output (Efficacy) of the emergency battery backup model in 180 minute emergency mode, contact your local sales representative.

② 70 minimum.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Electrical Specifications — Standard Model ①

Model	Operating Temperature	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)		
IMLLED2	-40 °C to +65 °C (-40 °F to +149 °F)	100 Vac	32	0.32	>0.9	< 20%		
		277 Vac	32	0.12				
		125 Vdc	32	0.28	N/A	N/A		
		300 Vdc	32	0.11				
		347 Vac	32	0.10	>0.9	< 20%		
		480 Vac	32	0.08				
		24 Vdc	30	1.20	N/A	N/A		
		48 Vdc	30	0.60				
		IMLLED3	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	32	0.32	>0.9	< 20%
				277 Vac	32	0.12		
24 Vdc	30			1.20	N/A	N/A		
48 Vdc	30			0.60				
IMLLED4	-40 °C to +65 °C (-40 °F to +149 °F)			100 Vac	40	0.40	>0.9	< 20%
				277 Vac	40	0.15		
		125 Vdc	40	0.32	N/A	N/A		
		300 Vdc	40	0.13				
		347 Vac	40	0.12	>0.9	< 20%		
		480 Vac	40	0.09				
		24 Vdc	35	1.44	N/A	N/A		
		48 Vdc	35	0.71				
		IMLLED5	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	40	0.40	>0.9	< 20%
				277 Vac	40	0.15		
24 Vdc	35			1.44	N/A	N/A		
48 Vdc	35			0.71				
IMLLED7	-40 °C to +60 °C (-40 °F to +140 °F)			100 Vac	49	0.49	>0.9	< 20%
				277 Vac	49	0.18		
		125 Vdc	49	0.39	N/A	N/A		
		300 Vdc	49	0.15				
		347 Vac	49	0.14	>0.9	< 20%		
		480 Vac	49	0.10				
		24 Vdc	43	1.78	N/A	N/A		
		48 Vdc	43	0.87				
		IMLLED8	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	49	0.49	>0.9	< 20%
				277 Vac	49	0.18		
24 Vdc	43			1.78	N/A	N/A		
48 Vdc	43			0.87				
IMLLED9	-40 °C to +60 °C (-40 °F to +140 °F)			100 Vac	53	0.52	>0.9	< 20%
				277 Vac	53	0.19		
		125 Vdc	53	0.41	N/A	N/A		
		300 Vdc	53	0.17				
		347 Vac	53	0.15	>0.9	< 20%		
		480 Vac	53	0.11				
		24 Vdc	46	1.87	N/A	N/A		
		48 Vdc	46	0.92				
		IMLLED10	-50 °C to +60 °C (-58 °F to +140 °F)	120 Vac	53	0.52	>0.9	< 20%
				277 Vac	53	0.19		
IMLLED11	-50 °C to +65 °C (-58 °F to +149 °F)	24 Vdc	46	1.87	N/A	N/A		
		48 Vdc	46	0.92				

① All values are typical (tolerance +/-10%).

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

With Emergency Battery Backup
Ordinary Locations

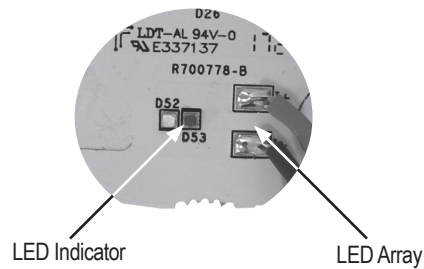
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Electrical Specifications — Emergency Model ①

Model	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
IMLLED2	120 Vac	39	0.33	> 0.9	< 20%
	277 Vac	39	0.16		
IMLLED3	120 Vac	45	0.38	> 0.9	< 20%
	277 Vac	45	0.18		
IMLLED4	120 Vac	53	0.45	> 0.9	< 20%
	277 Vac	53	0.21		
IMLLED7	120 Vac	56	0.47	> 0.9	< 20%
	277 Vac	56	0.22		

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

Functional	Full Duration
Starts within 24 to 45 hours after the initial powerup of the module	Starts within 5 to 26 days after the initial power of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs every 364 days after the initial aforementioned functional test
Lasts for 30 seconds	Lasts for the full duration of the rated emergency period
At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present	



LED Signals

Indicator Color	Timing	Description
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator Lights (Red and Green) OFF	No AC, Emergency mode ON

① All values are typical (tolerance +/-10%).






⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Effective Projected Area Calculations for Outdoor Luminaires









Luminaire		Effective Projected Area (EPA) = FPA*DC ft ²
Pendant Mount		0.67
Ceiling Mount		0.91
Wall Mount		0.68
25° Stanchion Mount		0.74
90° Stanchion Mount		0.73

Industrial Mercmaster™ LED Low Profile Series Luminaires




Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Mounting Hoods — All Models

Hub Size	Weight in kg (lbs)	Catalog Number	Hub Size	Weight in kg (lbs)	Catalog Number
Pendant — One Hub, Rigid Mounting			Surface/Ceiling — Five Hubs, Four Close-Up Plugs		
 3/4" NPT		KPA-75	 3/4		KPC-75
1" NPT	1.0 (2.3)	KPA-100	1	1.4 (3.0)	KPC-100
M20		KPA-M20	M20		KPC-M20
Pendant Cone — One Hub, Rigid Mounting			Wall — Five Hubs, Four Close-Up Plugs		
 3/4" NPT		KPCH-75	 3/4		KPWB-75
1" NPT	1.1 (2.5)	KPCH-100	1	1.8 (4.0)	KPWB-100
M20		KPCH-M20	M20		KPWB-M20
Watertight Pendant Hood — One Hub, Rigid Mounting			25° Stanchion — One Hub		
 3/4" NPT		KPA-75-WT	 1-1/4" NPT		KPS-125
1" NPT	1.1 (2.4)	KPA-100-WT	1-1/2" NPT	1.5 (3.3)	KPS-150
M20		KPA-WT-M20			
Trunnion — Five Hubs, Four Close-Up Plugs			90° Stanchion — One Hub		
 3/4" NPT		KPCT-75	 1-1/4" NPT		KPST-125
1" NPT	5.3 (11.7)	KPCT-100	1-1/2" NPT	1.7 (3.8)	KPST-150
M20		KPCT-M20			

Mounting Hood Adapters — All Models ①

Manufacturer	Installed Mounting Hood	Weight in kg (lbs)	Appleton Adapter Catalog Number
 Crouse-Hinds™ Champ® †	Pendant: APM2/3 Ceiling: CM2/3 Flexible Pendant: HPM2	0.9 (2.00)	MMADCHVS
Appleton™ Mercmaster™ II	Pendant: LPA75/100 Ceiling: LPC75/100	0.9 (2.00)	MMADIIS
 Crouse-Hinds™ Champ® †	Wall: TWM2/3 25° Angle Stanchion: JM5 90° Angle Stanchion: PM5	0.9 (2.00)	MMADCHVA
Appleton™ Mercmaster™ II	Wall: LPWB75, LPWB100 25° Angle Stanchion: LPS125, LPS150	0.9 (2.00)	MMADIIA
 Killark™ ‡	Ceiling: VMX2B, VMX3B, VMX6B, VMX7B, VMX9B Pendant: VMA2B, VMA3B Stanchion: VMD4B, VMD5B, VMS4B, VMS5B Wall: VMB2B, VMB3B Pendant Cone: VMC2B, VMC3B	1.0 (2.3)	MMADKVA

① Adapters are cCSAus rated only.

‡ Killark is a registered trademark of Hubbell Incorporated.

† Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.





Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
 NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
 IECCE CB Standard Model: IK08
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — All Models

	Description	Weight in kg (lbs)	Catalog Number
Globes			
	Clear Globe — Polycarbonate	0.2 (0.5)	VPGL-LED
	Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
	Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Guard			
	Globe Guard — Stainless Steel	0.2 (0.4)	MGU1
Safety Cable			
	Safety Cable — Stainless Steel	0.2 (0.4)	LEDSC
Visor			
	Electrostatically applied gray epoxy powder coat finish on Aluminum Visor	0.4 (0.9)	MMVISOR

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard






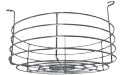

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Standard Model

Description	Weight in kg (lbs)	Catalog Number				
Globes ①						
 Glass Globe — Amber	0.2 (0.5)	VPGLGLASSAM				
 Glass Globe — Blue	0.2 (0.5)	VPGLGLASSBL				
 Glass Globe — Red	0.8 (1.7)	VPGLGLASSRE				
 Glass Globe — Green	0.8 (1.7)	VPGLGLASSGR				
Light Distribution	Weight in kg (lbs)	Catalog Number				
Prismatic Glass Refractor — All Heat-Resistant ②						
 Short Prismatic Glass Refractor — NEMA Type V	1.4 (3.0)	LPG-R5S				
Description		Catalog Number				
Guards						
 Short Refractor Guard for LPG-R5S	0.3 (0.7)	KRG2S				
Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
Replacement Drivers						
	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD72
		BH	50 Watt	3000K, 4000K, 5000K	720mA	APMS050C135HD72
		B2				APMZ050C130DC72
		BU				APMS050C135UD55
	-50 °C to +65 °C (-58 °F to +149 °F)	BH	50 Watt	1800K, Amber	550mA	APMS050C135HD55
		B2				APMZ050C130DC55
		BU	50 Watt	3000K, 4000K, 5000K	720mA	APMZ050L135UD72
		B2				APMZ050C130DC72
	BU	50 Watt	1800K, Amber	550mA	APMZ050L135UD55	
	B2				APMZ050C130DC55	

① Certified for cCSAus only, with a T4 T-Code.

② Glass Prismatic Refractors are cCSAus rated only.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Standard Model

Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number		
Replacement Drivers								
IMLLED3	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD10		
		BH	50 Watt	3000K, 4000K, 5000K	1000mA	APMS050C135HD10		
		B2				APMZ050C130DC10		
		BU				APMS050C135UD64		
		BH	50 Watt	1800K, Amber	640mA	APMS050C135HD64		
		B2				APMZ050C130DC64		
	-50 °C to +65 °C (-58 °F to +149 °F)	BU	50 Watt	3000K, 4000K, 5000K	1000mA	APMZ050L135UD10		
		B2				APMZ050C130DC10		
		BU	50 Watt	1800K, Amber	640mA	APMZ050L135UD64		
		B2				APMZ050C130DC64		
		IMLLED4	-40 °C to +65 °C (-40 °F to +149 °F)	BU				APMS050C135UD13
				BH	50 Watt	3000K, 4000K, 5000K	1300mA	APMS050C135HD13
B2						APMZ050C130DC13		
-50 °C to +65 °C (-58 °F to +149 °F)	BU		50 Watt	3000K, 4000K, 5000K	1300mA	APMZ050L135UD13		
	B2					APMZ050C130DC13		
	BU		50 Watt	1800K, Amber	780mA	APMZ050L135UD78		
IMLLED7	-40 °C to +60 °C (-40 °F to +140 °F)	BH	50 Watt	ALL	825mA	APMS050C135UD82		
		B2	50 Watt	ALL	825mA	APMZ050C130DC82		
		-50 °C to +60 °C (-58 °F to +140 °F)	BU	50 Watt	ALL	825mA	APMZ050L135UD82	
			B2	50 Watt	ALL	825mA	APMZ050C130DC82	
			-50 °C to +65 °C (-58 °F to +149 °F)	BU	50 Watt	ALL	825mA	APMZ050L135UD82
		B2		50 Watt	ALL	825mA	APMZ050C130DC82	





Industrial Mercmaster™ LED Low Profile Series Luminaires


Standard or with Emergency Battery Backup

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
 NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
 IEC EE CB Standard Model: IK08
 Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Accessories and Replacement Parts — Emergency Battery Backup Model

Description	Weight in kg (lbs)	Catalog Number
 Replacement Battery Pack	0.7 (1.5)	BPMLLED
 Replacement Battery Management Module	0.7 (1.5)	BMMLLED
Replacement Fuse (Emergency system)	0.2 (0.4)	MLF5

Model	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
Replacement Drivers and Battery Management Module with Battery					
	BU	50 Watt	3000K, 4000K, 5000K	480mA	APMS050C135UD48
			1800K, Amber	550mA	APMS050C135UD55
			3000K, 4000K, 5000K	610mA	APMS050C135UD61
			1800K, Amber	640mA	APMS050C135UD64
			3000K, 4000K, 5000K	750mA	APMS050C135UD75
IMLLED2			1800K, Amber	780mA	APMS050C135UD78
IMLLED3			All	825mA	APMS050C135UD82

Mounting Hood with Factory Installed Photocontrol — All Models ①

Mounting Hood	Hub Size	Photocontrol Option	Catalog Number
Pendant	3/4" NPT	120 V	KPA75PC12
		208 V, 240 V, 277 V	KPA75PC24
	1" NPT	120 V	KPA100PC12
		208 V, 240 V, 277 V	KPA100PC24
Watertight Pendant	3/4" NPT	120 V	KPA75WTPC12
		208 V, 240 V, 277 V	KPA75WTPC24
	1" NPT	120 V	KPA100WTPC12
		208 V, 240 V, 277 V	KPA100WTPC24
Wall	3/4" NPT	120 V	KPWB75PC12
		208 V, 240 V, 277 V	KPWB75PC24
	1" NPT	120 V	KPWB100PC12
		208 V, 240 V, 277 V	KPWB100PC24
25° Stanchion	1-1/4" NPT stanchion	120 V	KPS125PC12
		208 V, 240 V, 277 V	KPS125PC24
	1-1/2" NPT stanchion	120 V	KPS150PC12
		208 V, 240 V, 277 V	KPS150PC24
90° Stanchion	1-1/4" NPT stanchion	120 V	KPST125PC12
		208 V, 240 V, 277 V	KPST125PC24
	1-1/2" NPT stanchion	120 V	KPST150PC12
		208 V, 240 V, 277 V	KPST150PC24

① Fixtures with photocontrols are cCSAus rated, available for 120-277 Vac only, and are suitable for wet locations. The following ratings do not apply: IP, Marine Outside Type (Salt Water), NEMA.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

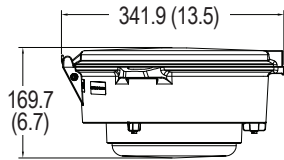
Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

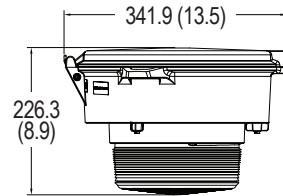
NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Dimensions in Millimeters (Inches) — All Models with Polycarbonate Globe — Standard Model with Short Prismatic Glass Refractor

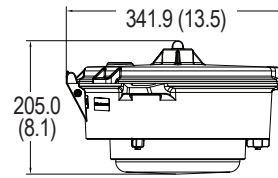
Pendant Mount — Globe



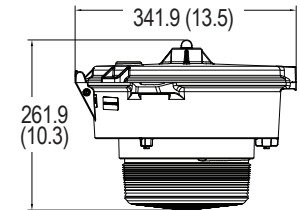
Pendant Mount — Refractor



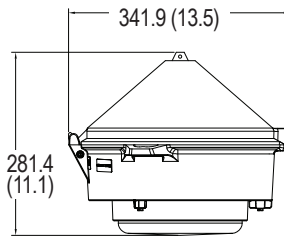
Watertight Pendant Mount — Globe



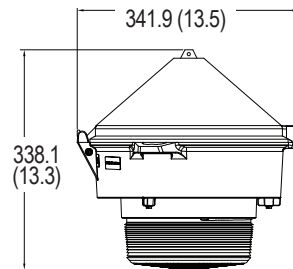
Watertight Pendant Mount — Refractor



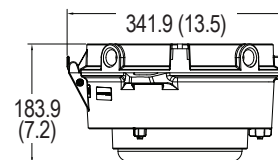
Pendant Cone Mount — Globe



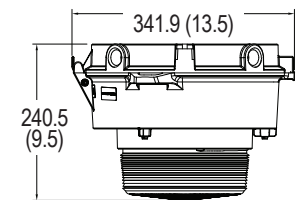
Pendant Cone Mount — Refractor



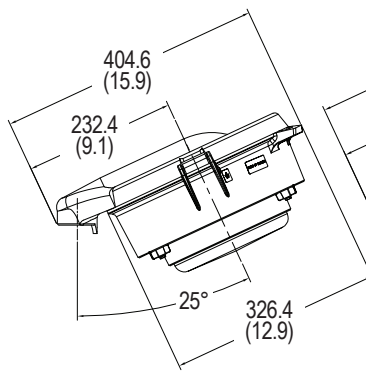
Ceiling Mount — Globe



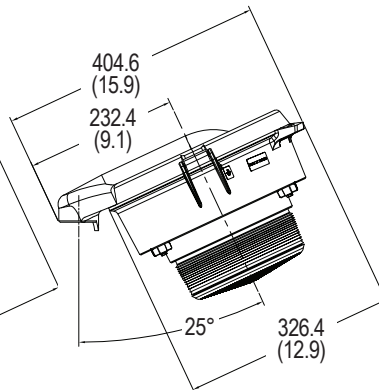
Ceiling Mount — Refractor



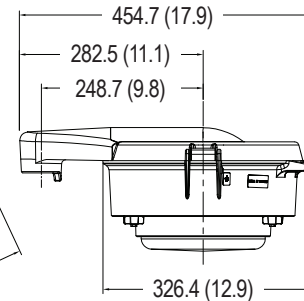
25° Stanchion Mount — Globe



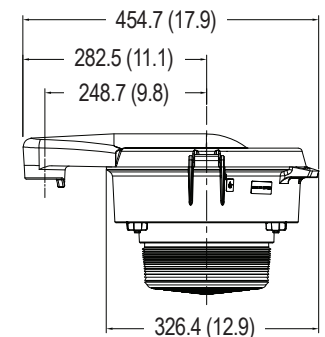
25° Stanchion Mount — Refractor



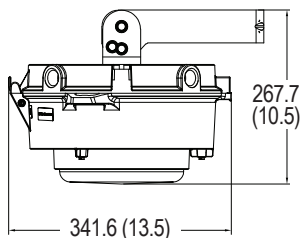
90° Stanchion Mount — Globe



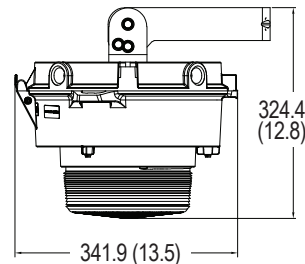
90° Stanchion Mount — Refractor



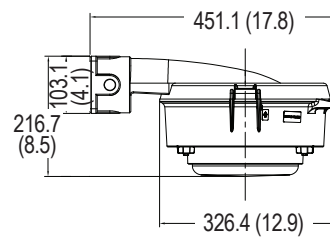
Trunnion Mount — Globe



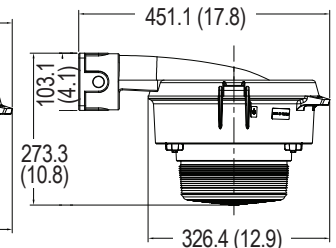
Trunnion Mount — Refractor



Wall Mount — Globe



Wall Mount — Refractor



⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Lighting

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard or with Emergency Battery Backup
Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
NEC/CEC Emergency Battery Backup Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠
IECEE CB Standard Model: IK08
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Dimensions in Millimeters (Inches) — All Models — Driver Housing

With Polycarbonate Globe — All Models

With Short Prismatic Glass Refractor — Standard Model

Dimensions in Millimeters (Inches) — All Models with Polycarbonate Globe — Standard Model with Short Prismatic Glass Refractor

Mercmaster II Adapter — Ceiling or Pendant — Globe

Mercmaster II Adapter — Ceiling or Pendant — Refractor

Mercmaster II Adapter — Stanchion or Wall — Globe

Mercmaster II Adapter — Stanchion or Wall — Refractor

Crouse-Hinds™ + Adapter — Ceiling or Pendant — Globe

Crouse-Hinds™ + Adapter — Ceiling or Pendant — Refractor

Crouse-Hinds™ + Adapter — Stanchion or Wall — Globe

Crouse-Hinds™ + Adapter — Stanchion or Wall — Refractor

Killark™ ♦ Adapter — Globe

Killark™ ♦ Adapter — Refractor

Luminaire Weights — All Models

Description	Weight kg (lb)
Standard Model Driver Housing	4.6 (10.10)
Emergency Battery Backup Model Driver Housing	5.8 (13.80)

♦ Killark is a registered trademark of Hubbell Incorporated.

± Crouse-Hinds is a registered trademark of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

A172 **EMERSON**

Visit our website at www.masteringled.com.
Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

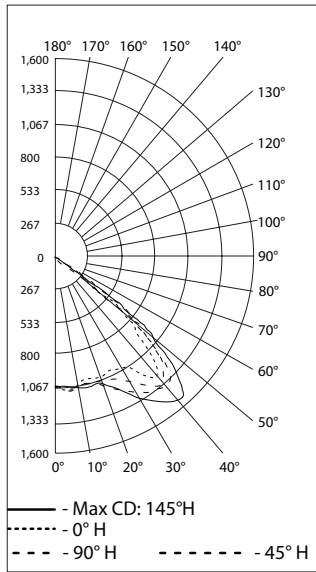
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLLED4CP5BU

Luminaire Lumens 3,198

POLAR CANDELA DISTRIBUTION

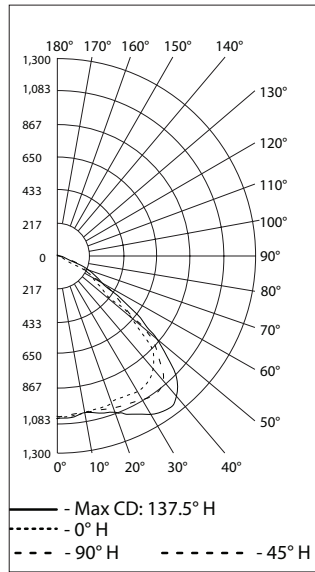


Type V, Diffused Polycarbonate, 5000K CCT

REPORT NUMBER: IMLLED4CD5BU

Luminaire Lumens 3,103

POLAR CANDELA DISTRIBUTION

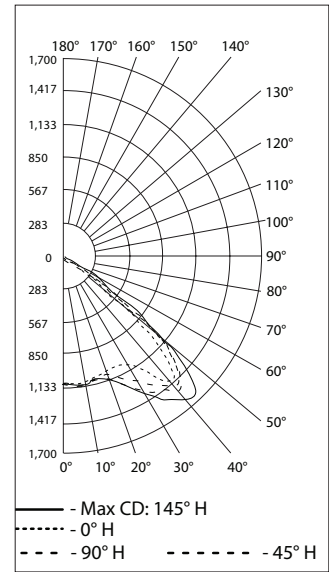


Type V, Clear Glass, 5000K CCT

REPORT NUMBER: IMLLED4CG5BU

Luminaire Lumens 3,334

POLAR CANDELA DISTRIBUTION

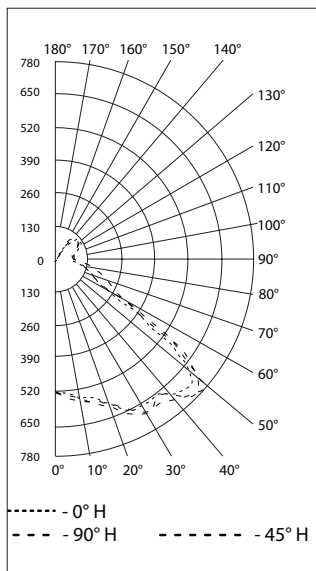


Type V, Glass Refractor, 5000K CCT

REPORT NUMBER: IMLLED4CJ5BU

Luminaire Lumens 3,020

POLAR CANDELA DISTRIBUTION

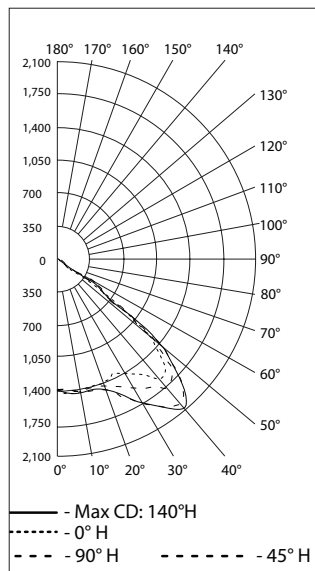


Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMLLED4CP5BU

Luminaire Lumens 4,234

POLAR CANDELA DISTRIBUTION

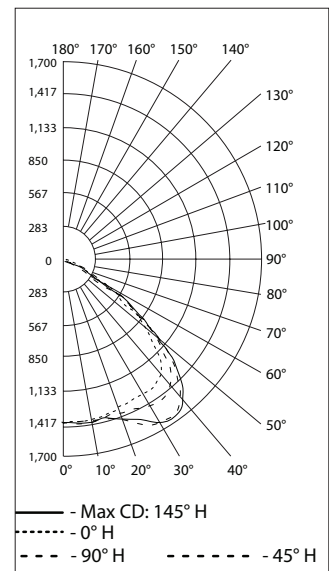


Type V, Diffused Polycarbonate, 5000K CCT

REPORT NUMBER: IMLLED4CD5BU

Luminaire Lumens 4,151

POLAR CANDELA DISTRIBUTION



⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

Lighting

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⌘

IECEE CB Standard Model: IK08

Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass, 5000K CCT

REPORT NUMBER: **IMLLED3CG5BU**

Luminaire Lumens 4,468

POLAR CANDELA DISTRIBUTION

— Max CD: 137.5° H
 0° H
 - - - 90° H - - - - 45° H

Type V, Glass Refractor, 5000K CCT

REPORT NUMBER: **IMLLED3CJ5BU**

Luminaire Lumens 4,020

POLAR CANDELA DISTRIBUTION

..... 0° H
 - - - 90° H - - - - 45° H

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: **IMLLED4CP5BU**

Luminaire Lumens 5,330

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 0° H
 - - - 90° H - - - - 45° H

Type V, Diffused Polycarbonate, 5000K CCT

REPORT NUMBER: **IMLLED4CD5BU**

Luminaire Lumens 5,150

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 0° H
 - - - 90° H - - - - 45° H

Type V, Clear Glass, 5000K CCT

REPORT NUMBER: **IMLLED4CG5BU**

Luminaire Lumens 5,529

POLAR CANDELA DISTRIBUTION

— Max CD: 140° H
 0° H
 - - - 90° H - - - - 45° H

Type V, Glass Refractor, 5000K CCT

REPORT NUMBER: **IMLLED4CJ5BU**

Luminaire Lumens 4,940

POLAR CANDELA DISTRIBUTION

..... 0° H
 - - - 90° H - - - - 45° H

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

A174

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

Industrial Mercmaster™ LED Low Profile Series Luminaires

Standard

Ordinary Locations

NEC/CEC Standard Model: Type 3R, 4, 4X | IP66 | IP67 | Suitable for Use in Wet Locations | Marine Outside Type (Salt Water) ⚠

IECEE CB Standard Model: IK08

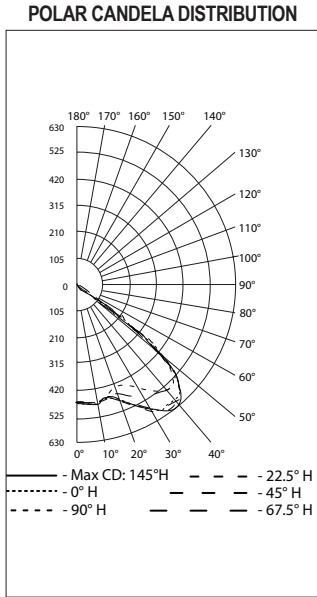
Notable: American Bureau of Shipping (ABS) Certified | International Dark Sky (IDA) Approved (Standard Model Only) | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Polycarbonate, 5000K CCT

REPORT NUMBER: IMILLED2CP5BUH+EMR

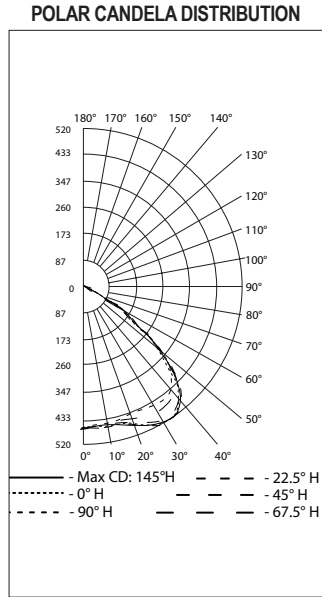
Luminaire Lumens 1,404



Type V, Diffused Polycarbonate, 5000K CCT

REPORT NUMBER: IMILLED2CD5BUH+EMR

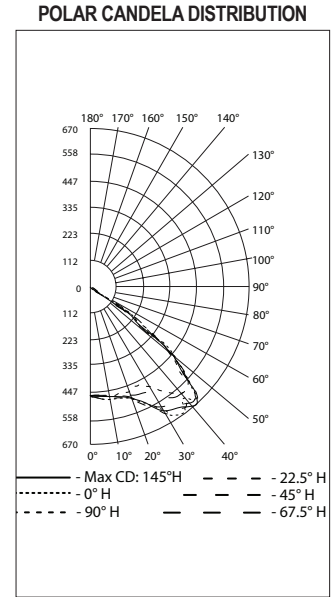
Luminaire Lumens 1,369



Type V, Clear Glass, 5000K CCT

REPORT NUMBER: IMILLED2CG5BUH+EMR

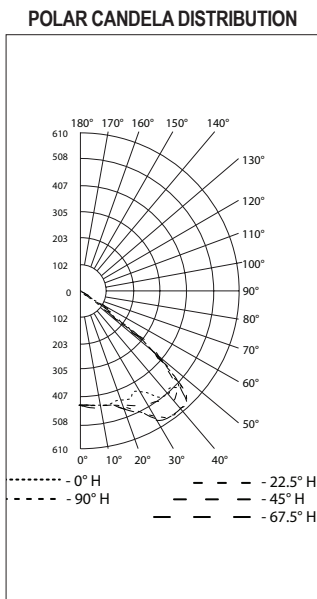
Luminaire Lumens 1,460



Type V, Clear Glass, 4000K CCT

REPORT NUMBER: IMILLED4NG5BUH+EMR

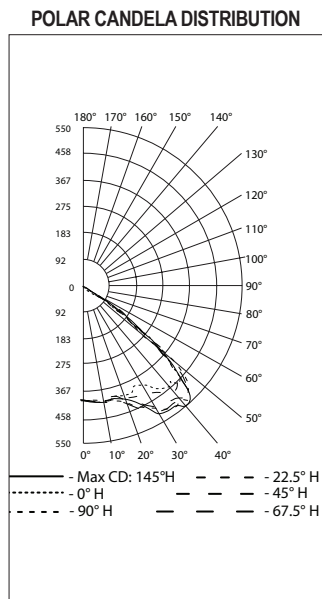
Luminaire Lumens 1,330



Type V, Clear Glass, 3000K CCT

REPORT NUMBER: IMILLED4WG5BUH+EMR

Luminaire Lumens 1,207



⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚡†

IECEE CB: IK08

Markings: CE | UKCA

Applications

- Enclosed and gasketed fixtures suitable for use in:
 - A wide range of harsh industrial environments
 - Marine and wet locations
 - Wall mounted luminaire suitable for areas of low clearance, low ceiling heights or where fixture weights must be minimized.
- Typical applications include:
 - Walkways/catwalks/stairwells
 - Grain elevators
 - Tunnels
 - Pipe racks
 - Processing areas
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Compact light weight design
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white, 3000K warm white, or 1800K high pressure sodium (70 CRI min), yellow amber.
- Customize to the application requirements with two different globe options: diffused polycarbonate, clear glass.
- Two light output levels for retrofit of HID fixtures up to 250W:

Nominal Lumens ①	HID Equivalent	Model
4200	70-100W	IMLTCL3
6800	175-250W	IMLTCL7

① Nominal Lumen value. Detailed lumen information is provided in tables.

- Hinge has high lip for added safety during installation and servicing.
- Hinge and bolt construction assures 360° compression at all points on fixture housing gasket for positive sealing. Swing away design of captive bolt and nut simplifies servicing.
- Rugged housing with superior thermal design translates to long luminaire life.
- Reliable heat transfer via the cast, epoxy powder coat aluminum housing (heatsink). Provides maximum heat dissipation from the LED assembly to the outside environment.
- Mounting Hood and Globe Gaskets are silicone rubber to seal out moisture, dirt and dust; stays flexible and withstands extreme temperatures. Closure design assures uniform gasket compression.
- Standard 6 kV surge protection.
- Voltages:
 - DU: 100-277 Vac or 125-300 Vdc
 - D2: 24-48 Vdc
- Ambient Temperature:
 - Standard: -40 °C to +65 °C (-40 °F to +149 °F)
 - Cold temperature option: -50 °C to +65 °C (-58 °F to +149 °F)
- Heavy duty, high temperature silicone rubber gaskets.
- Reported L70:

+25 °C (+77 °F)	Reported	> 60000
	Calculated	> 200000
+65 °C (+149 °F)	Reported	> 60000
	Calculated	> 200000

- Spring-loaded screw-type terminal block can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Field replaceable lens, LED driver.
- Photometric data and electronic drawings available upon request.



Warranty ⚡

- 5 year standard warranty.

Controls

- Dimming:
 - Industrial HB LED Multilens Bulkhead offers a two-wire, 0-10V variable dimming input port for controlling the light output:
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
 - 24-48 Vdc models: from 0 to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster™ Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Industrial Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 times period per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- Globe guard available, purchase separately.
- Safety cable available, purchase separately.
- M20 reducer available, purchase separately.

Standard Materials

- Mounting hoods and driver housing: cast copperfree (4/10 of 1% max.) aluminum
- Globe: polycarbonate or glass
- Gaskets: silicone rubber
- All hardware and catch assemblies: stainless steel
- Globe guard: stainless steel wire

Standard Finishes

- Mounting hoods and driver housing: gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598; UL 8750
- CSA Standard: C22.2 No. 250.0-08; C22.2 No. 250.13-17
- NEMA ANS/IEC Standard: 60529
- cCSAus: 164460, Certificate Number: 70129363

† May be subject to revision.

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

⚡ For warranty details go to www.appleton.emerson.com.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚠†

IECEE CB: IK08

Markings: CE | UKCA

IECEE CB Certificates and Compliances

- IEC 60598-1, IEC 60598-2-1
- IECEE CB Certificates: 64460-80075816
- Photobiological Safety, IEC 62778 and IEC 62471

Related Products

- HB LED Multilens Bulkhead Luminaires
- Mercmaster Connect LED Luminaires
- Industrial Mercmaster Connect LED Luminaires

CE and UKCA Marking

- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-4, 61000-3-2; CISPR 15

Illustrated Features



Group Lighting Controls:

Control up to 10 luminaires over a distance of 60 meters (200 ft) with Industrial Mercmaster Connect LED integrated dimming controller by daisy chaining the dimming leads from the group of lights.



Latch Assembly and Hinge:

Captive, stainless steel latch assembly (bolt and nut) closes securely while providing resistance to corrosive atmospheres. Swing-away design simplifies wiring and installation. Extra high hinge provides additional protection against accidental driver housing disengagement during installation or maintenance.



Field Replaceable Parts:

Replacement glass and polycarbonate globes and drivers available — allowing for easy maintenance.



Safety Cable (optional):

Safety cable is slipped around the housing through retention points that are casted in. Safety cable has built in loops combined with a locking carabiner to allow for a quick and secure installation.

† May be subject to revision.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

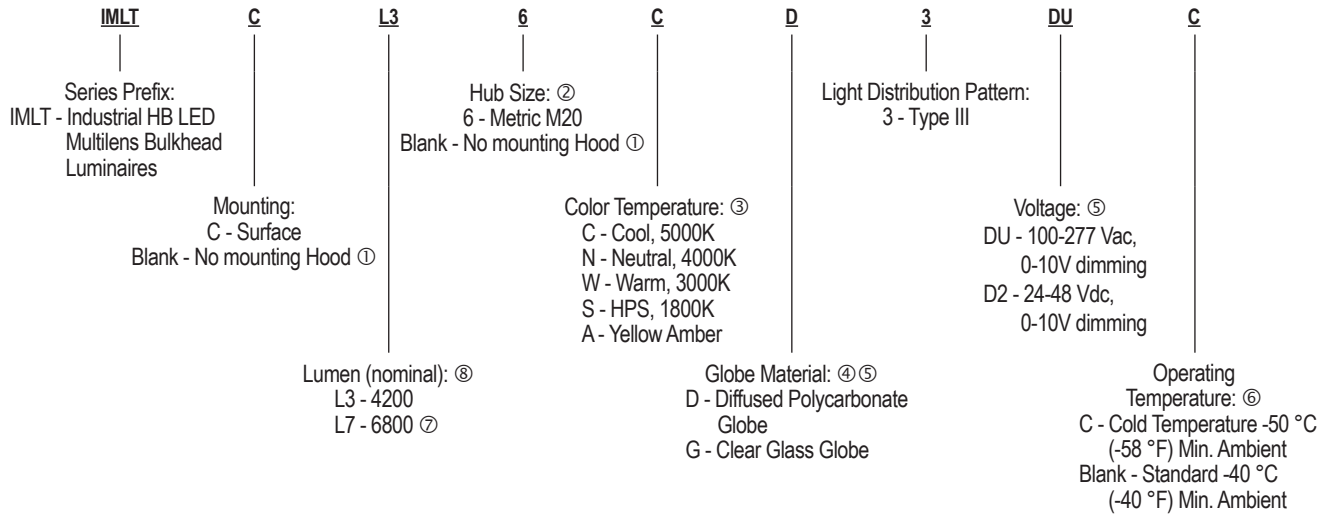
Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚡†

IECEE CB: IK08

Markings: CE | UKCA

Order Using Catalog Numbering Guide — Industrial HB LED Multilens Bulkhead Luminaires



① Select this option if ordering mounting hood KPCM20MLT separately.

② The luminaire includes (5) 3/4"NPT hub and (1) M20 reducer. It ships with the driver housing and the bulkhead mount hood individually packaged.

③ Other CCT options available upon request. Contact your local sales representative for more information.

④ Guards for the globes are ordered separately. See the Accessories for more information.

⑤ Luminaires have 0-10V variable dimming input providing 10% to 100% dimming curve for DU voltage models at standard temperature and 0% to 100% dimming curve for D2 voltage or cold temperature models.

⑥ Cold temperature option is available for use with 120-277 Vac.

⑦ IMLTCL7 120-277 Vac models go up to +60 °C (+140 °F) ambient. IMLTCL7 24-48 Vdc models go up to +65 °C (+149 °F) ambient.

⑧ For lumen output information, see Lumen Output (Efficacy) Table.

† May be subject to revision.

⚡ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ‡†

IECEE CB: IK08

Markings: CE | UKCA

Lumen Output (Efficacy) ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Diffused Polycarbonate Globe														
IMLTCL3	70-100W	Type III	3000K	80	3300	106	4000K	80	3500	113	5000K	70	3900	126
IMLTCL7	175-250W	Type III	3000K	80	5600	110	4000K	80	5800	114	5000K	70	6300	124
IMLTCL3	70-100W	Type III	1800K	70	2800	82	Amber	N/A	2500	74				
IMLTCL7	175-250W	Type III	1800K	70	4900	98	Amber	N/A	4300	86				
Clear Glass Globe														
IMLTCL3	70-100W	Type III	3000K	80	3500	113	4000K	80	3700	119	5000K	70	4200	135
IMLTCL7	175-250W	Type III	3000K	80	6000	118	4000K	80	6200	122	5000K	70	6800	133
IMLTCL3	70-100W	Type III	1800K	70	3000	88	Amber	N/A	2600	76				
IMLTCL7	175-250W	Type III	1800K	70	5300	106	Amber	N/A	4700	94				

Electrical Specifications ①

Model	Operating Temperature	Voltage	Max. Input Power (Watts)	Max. Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
IMLTCL3		100 Vac	32	0.32	>0.9	< 20%
		277 Vac	32	0.12		
	-40 °C to +65 °C (-40 °F to +149 °F)	125 Vdc	32	0.25	N/A	N/A
		300 Vdc	32	0.10		
		24 Vdc	27	1.20	N/A	N/A
		48 Vdc	27	0.60		
	-50 °C to +65 °C (-58 °F to +149 °F)	24 Vdc	27	1.20	N/A	N/A
		48 Vdc	27	0.60		
		120 Vac	32	0.32	>0.9	< 20%
		277 Vac	32	0.12		
IMLTCL7	-40 °C to +60 °C (-40 °F to +140 °F)	100 Vac	53	0.52	>0.9	< 20%
		277 Vac	53	0.19		
		125 Vdc	53	0.41	N/A	N/A
		300 Vdc	53	0.17		
	-40 °C to +65 °C (-40 °F to +149 °F)	24 Vdc	46	1.87	N/A	N/A
		48 Vdc	46	0.92		
	-50 °C to +60 °C (-58 °F to +140 °F)	24 Vdc	46	1.87	N/A	N/A
		48 Vdc	46	0.92		
	-50 °C to +65 °C (-58 °F to +149 °F)	120 Vac	53	0.52	>0.9	< 20%
		277 Vac	53	0.19		

① All values are typical (tolerance +/-10%).

† May be subject to revision.

‡ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

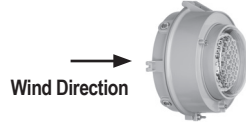
NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚠†

IECEE CB: IK08






Markings: CE | UKCA

Effective Projected Area Calculations for Outdoor Luminaires

Luminaire	Effective Projected Area (EPA) = FPA*DC ft ²
IMLTC	0.91



Accessories and Replacement Parts

Description	Weight in kg (lbs)	Catalog Number
Surface — Five Hubs, Four Close-Up Plugs		
 M20	1.4 (3.0)	KPC-M20-MLT
Globes		
 Diffused Globe — Polycarbonate	0.2 (0.5)	VPGL-DIFF
Clear Globe — Glass	0.8 (1.7)	VPGL-GLASS
Adapter		
 3/4" NPT to M20 Reducer	0.09 (0.2)	737DT2M25
Guard		
 Globe Guard — Stainless Steel	0.2 (0.4)	MGU1
Safety Cable		
 Safety Cable — Stainless Steel	0.2 (0.4)	LEDSC

Replacement Drivers

Model	Ambient Temperature	Voltage	Driver Wattage	CCT (Correlated Color Temperature)	Constant Current Settings	Catalog Number
IMLTCL3	-40 °C to +65 °C (-40 °F to +149 °F)	DU	50 Watt	ALL	500mA	APMS050C135UD50
		D2				APMZ050C130DC50
	-50 °C to +65 °C (-58 °F to +149 °F)	DU	50 Watt	ALL	500mA	APMZ050L135UD50
		D2				APMZ050C130DC50
IMLTCL7	-40 °C to +60 °C (-40 °F to +140 °F)	DU	50 Watt	ALL	825mA	APMS050C135UD82
		D2				APMZ050C130DC82
	-50 °C to +60 °C (-58 °F to +140 °F)	DU	50 Watt	ALL	825mA	APMZ050L135UD82
		D2				APMZ050C130DC82

† May be subject to revision.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

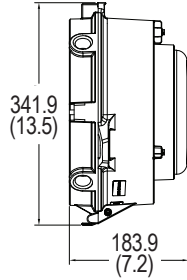
NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⚠†

IECEE CB: IK08

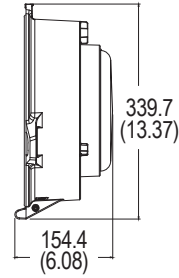
Markings: CE | UKCA

Dimensions in Millimeters (Inches)

Bulkhead Mount



Driver Housing



Luminaire Weights

Description	Weight in kg (lbs)
Driver Housing	4.6 (10.10)
Bulkhead	6.0 (13.23)

† May be subject to revision.

⚠ Use of fuse voids Marine Outside Type (Salt Water) rating.

Industrial HB LED Multilens Bulkhead Luminaires

Enclosed and Gasketed Fixtures

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X; IP66 | IP67; Simultaneous Exposure; Suitable for Use in Wet Locations; Marine Outside Type (Salt Water) ⌘†

IECEE CB: IK08

Markings: CE | UKCA

Photometric Data — DATA SHOWN IS ABSOLUTE

Type III, Clear Glass, 5000K CCT, 3500 Lumens

REPORT NUMBER: IMLTL3CG3DU

Luminaire Lumens 4431

Type III, Diffused Polycarbonate, 5000K CCT, 3500 Lumens

REPORT NUMBER: IMLTL3CD3DU

Luminaire Lumens 4078

POLAR CANDELA DISTRIBUTION



Maximum Candela = 3116.4 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5

1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

POLAR CANDELA DISTRIBUTION



Maximum Candela = 2411.15 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5

1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

† May be subject to revision.

⌘ Use of fuse voids Marine Outside Type (Salt Water) rating.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECx: Zones 1 and 2 – 21 and 22

Applications

- For use in locations where:
 - Hazardous areas are designated as Zone 1 and 2 – 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical applications include:
 - Oil refineries
 - Petrochemical facilities
 - Food processing plants
 - Waste and water treatment plants
 - Underground tunnels
 - General manufacturing facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Available in 5000K, 4000K, 3000K and 2200K Color Temperatures.
- Luminaire with optional green color LEDs is available.
- Easy to retrofit in same mounting footprint as the Appleton FE Series nonmetallic fluorescent luminaires and FELED Series nonmetallic LED luminaires, and nonmetallic fluorescent luminaires from different manufacturers.
- Full range of lumen outputs, with light distribution equivalent to the Appleton FE Series fluorescent luminaires and FELED Series nonmetallic LED luminaires.
- 0-10V dimming capable.
- To prevent deep discharge of the batteries, emergency luminaires can be ordered and shipped without batteries, then batteries can be ordered and shipped separately prior to installation in the field when needed.
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate dome cover.
- Retention point integrated in the luminaire's housing for safety cable installation.
- High impact resistance housing (20 Joules – IK10) from -40 °C to +65 °C (-40 °F to +149 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- L70:

+25 °C (+77 °F)	Reported	> 102,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 102,000 hours
Ambient Temperature	Calculated	> 200,000 hours
- Lightweight design, hinged cover with central lock system, and terminal block wiring for easy installation and maintenance.
- Contemporary, low profile design suitable for tight spaces.
- Standard screw-type terminal block can accept 4 mm²/6 mm² (flexible/rigid) wire.
- Field replaceable LED driver.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency drivers in standard luminaire models, cover voltage requirements for 100 to 277 Vac, 50/60 Hz for standard models. Optional DC voltages: 125-300 Vdc or 24-48 Vdc.
- Universal, high efficiency BMM in emergency luminaire models covers voltage requirements for 120 to 277 Vac, 50/60 Hz Vdc are available with the standard luminaire models.
- High power factor electronic driver (>0.95).
- Standard 6 kV surge suppression.



LELED3 | LELED4



LELED5 | LELED6 | LELED7

- Appleton emergency exit labels can safely be secured on the polycarbonate dome cover.
- M20 plug or M25 plug provided.
- Latch assembly and elastomer gasket seals against water and dust ingress.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Available in 1.5 H or 3 H emergency version, including built-in monthly self-test. Test results through multi-colored LED.
- Optional positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations.

Warranty

- 10 year standard warranty.

Options

- Emergency/Battery Back-Up available for all models;
 - Add suffix -H to the end of the catalog number for 90 minutes. Example: LELED5CBUSADH
 - Add suffix -E to the end of the catalog number for 180 minutes. Example: LELED5CBUSADE

Standard Materials

- Housing: fiberglass reinforced polyester
- Dome cover: polycarbonate
- Gasket: elastomer
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

ATEX/IECx Certifications and Compliances

- Certification Type: LELED
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex eb mb IIC Gb
 - Temperature Class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db

☛ For warranty details go to www.appleton.emerson.com.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEX: Zones 1 and 2–21 and 22

- Standard Luminaire Ambient Temperature: -40 °C up to +65 °C (-40 °F up to +149 °F), refer to temperature codes table.
- Emergency Luminaire Ambient Temperature: -20 °C up to +60 °C (-4 °F up to +140 °F)
- ATEX Certificate: INERIS 24ATEX0001X
- IECEx Certificate: IIECEX INE 24.0001X
- Index of Protection according EN/IEC 60529: IP66 / 67 / 68
 - IPX8 testing was conducted at 1.5 m water depth for a duration of 45 min.
- Impact Resistance (shock): IK10
- Photobiological Safety, IEC 62778 and IEC 62471: RG0

Related Products

- ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires
- ATX™ FELED Series Nonmetallic LED Luminaires

Order Using Catalog Numbering Guide — ATX™ Linmaster Zone 1 Series Nonmetallic LED Luminaires

<u>LELED</u>	<u>3</u>	<u>C</u>	<u>BU</u>	<u>S</u>	<u>A</u>	<u>D</u>	<u>W</u>	<u>E</u>	<u>F</u>
Series Prefix: LELED - Zone 1, 2, 21, 22 ATEX/IECEX Certified		Color Temperature (CCT): C - 5000K (Cool) N - 4000K (Neutral) W - 3000K (Warm) H - 2200K V - Green		Wiring Version: S - Surface/Suspension Mount Standard Wiring (single phase) L - Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)		Optic: Blank - Clear D - Diffused:		Emergency: Blank - No Emergency R - 90 minutes (non-maintained) H - 90 minutes (maintained) E - 180 minutes (maintained)	
Lumen Output ①: 3 - 3K 4 - 4K 5 - 5K 6 - 6K 7 - 7K		Voltage: BU - 100 to 277 Vac, 50/60 Hz; 125-300 Vdc B2 - 24-48 Vdc ②		Cable Entry: A - Armored M20 ③ U - Unarmored M20 ④ N - Unarmored M25 ④ R - Armored M25 ③		Battery Pack: Blank - Emergency Luminaire with Battery Pack W - Emergency Luminaire without Battery Pack		Cutoff Switch: Blank - No switch F - With cutoff switch ⑤	

① All values displayed reflect typical values (+/- 10%).

② DC voltages can only be used with IECEx certified standard luminaires. Not available with ATEX certification.

③ Must order armored cable glands separately.

④ Cable glands provided in luminaires with unarmored hub entries.

⑤ Select to have cutoff switch with standard or emergency model.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECx: Zones 1 and 2–21 and 22

Lumen Output (Efficacy) ①

Model	Fluorescent Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Cover — Standard Mode														
LELED3	3 x 18W	Linear	3000K	≥80	3167	123	4000K	≥80	3402	132	5000K	≥80	3441	133
LELED4	2 x 36W	Linear	3000K	≥80	3643	121	4000K	≥80	3913	130	5000K	≥80	3957	131
LELED5	3 x 36W	Linear	3000K	≥80	5357	132	4000K	≥80	5754	141	5000K	≥80	5819	143
LELED6	2 x 58W	Linear	3000K	≥80	6391	130	4000K	≥80	6864	140	5000K	≥80	6941	141
LELED7	3 x 58W	Linear	3000K	≥80	7141	131	4000K	≥80	7671	140	5000K	≥80	7757	142
Clear Cover — Emergency Model 90 Minutes														
LELED3*H	3 x 18W	Linear	3000K	≥80	3167 1144	100	4000K	≥80	3402 1229	108	5000K	≥80	3441 1242	109
LELED4*H	2 x 36W	Linear	3000K	≥80	3643 1144	100	4000K	≥80	3913 1229	107	5000K	≥80	3957 1242	108
LELED5*H	3 x 36W	Linear	3000K	≥80	5357 1170	116	4000K	≥80	5774 1257	125	5000K	≥80	5819 1271	126
LELED6*H	2 x 58W	Linear	3000K	≥80	6391 1170	117	4000K	≥80	6864 1257	125	5000K	≥80	6941 1271	127
LELED7*H	3 x 58W	Linear	3000K	≥80	7141 1170	118	4000K	≥80	7671 1257	127	5000K	≥80	7757 1271	129
Clear Cover — Emergency Model 180 Minutes														
LELED3*E	3 x 18W	Linear	3000K	≥80	3167 676	100	4000K	≥80	3402 727	108	5000K	≥80	3441 735	109
LELED4*E	2 x 36W	Linear	3000K	≥80	3643 676	100	4000K	≥80	3913 727	107	5000K	≥80	3957 735	108
LELED5*E	3 x 36W	Linear	3000K	≥80	5357 687	116	4000K	≥80	5774 738	125	5000K	≥80	5819 746	126
LELED6*E	2 x 58W	Linear	3000K	≥80	6391 687	117	4000K	≥80	6864 738	125	5000K	≥80	6941 746	127
LELED7*E	3 x 58W	Linear	3000K	≥80	7141 687	118	4000K	≥80	7671 738	127	5000K	≥80	7757 746	129
Diffused Cover — Standard Model														
LELED3	3 x 18W	Linear	3000K	≥80	2914	113	4000K	≥80	3075	120	5000K	≥80	3144	121
LELED4	2 x 36W	Linear	3000K	≥80	3351	111	4000K	≥80	3537	117	5000K	≥80	3616	120
LELED5	3 x 36W	Linear	3000K	≥80	4841	119	4000K	≥80	5109	125	5000K	≥80	5224	128
LELED6	2 x 58W	Linear	3000K	≥80	5774	117	4000K	≥80	6095	124	5000K	≥80	6231	127
LELED7	3 x 58W	Linear	3000K	≥80	6453	118	4000K	≥80	6811	125	5000K	≥80	6964	127
Diffused Cover — Emergency Model 90 Minutes														
LELED3*H	3 x 18W	Linear	3000K	≥80	2914 1060	92	4000K	≥80	3075 1118	98	5000K	≥80	3139 1143	100
LELED4*H	2 x 36W	Linear	3000K	≥80	3351 1060	92	4000K	≥80	3537 1118	97	5000K	≥80	3616 1143	99
LELED5*H	3 x 36W	Linear	3000K	≥80	4901 1085	106	4000K	≥80	5173 1145	112	5000K	≥80	5289 1171	115
LELED6*H	2 x 58W	Linear	3000K	≥80	5774 1085	106	4000K	≥80	6095 1145	111	5000K	≥80	6231 1171	114
LELED7*H	3 x 58W	Linear	3000K	≥80	6453 1085	107	4000K	≥80	6811 1145	113	5000K	≥80	6964 1171	115
Diffused Cover — Emergency Model 180 Minutes														
LELED3*E	3 x 18W	Linear	3000K	≥80	2914 625	92	4000K	≥80	3075 660	98	5000K	≥80	3139 674	100
LELED4*E	2 x 36W	Linear	3000K	≥80	3351 625	92	4000K	≥80	3537 660	97	5000K	≥80	3616 674	99
LELED5*E	3 x 36W	Linear	3000K	≥80	4901 631	106	4000K	≥80	5173 666	112	5000K	≥80	5289 681	115
LELED6*E	2 x 58W	Linear	3000K	≥80	5774 631	106	4000K	≥80	6095 666	111	5000K	≥80	6231 681	114
LELED7*E	3 x 58W	Linear	3000K	≥80	6453 631	107	4000K	≥80	6811 666	113	5000K	≥80	6964 681	115

① All values are typical (+/- 10%).

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEx: Zones 1 and 2–21 and 22

Electrical Specifications — AC Driver at 230 Vac ①

Model	Voltage	Input Power (Watt)	Input Current (A)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
LELED3	230 Vac	26	0.118	>0.9	<20%
LELED4	230 Vac	30	0.136	>0.9	<20%
LELED5	230 Vac	41	0.186	>0.9	<20%
LELED6	230 Vac	49	0.225	>0.9	<20%
LELED7	230 Vac	55	0.251	>0.9	<20%
Emergency Model 90 Minutes					
LELED3*H	230 Vac	32	0.160	>0.8	<20%
LELED4*H	230 Vac	37	0.179	>0.8	<20%
LELED5*H	230 Vac	46	0.220	>0.9	<20%
LELED6*H	230 Vac	55	0.257	>0.9	<20%
LELED7*H	230 Vac	60	0.283	>0.9	<20%
Emergency Model 180 Minutes					
LELED3*E	230 Vac	32	0.160	>0.8	<20%
LELED4*E	230 Vac	37	0.179	>0.8	<20%
LELED5*E	230 Vac	46	0.220	>0.9	<20%
LELED6*E	230 Vac	55	0.257	>0.9	<20%
LELED7*E	230 Vac	60	0.283	>0.9	<20%

Electrical Specifications — DC Driver at 24 Vdc ①

Model	Voltage	Input Power (Watt)	Input Current (A)	Power Factor (PF)	Total Harmonic Distortion (THD)
LELED3	24 Vdc	24	1.0	N/A	N/A
LELED4	24 Vdc	27	1.1	N/A	N/A
LELED5	24 Vdc	43	1.8	N/A	N/A
LELED6	24 Vdc	50	2.1	N/A	N/A
LELED7	24 Vdc	57	2.4	N/A	N/A

① All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEX: Zones 1 and 2–21 and 22

Temperature Codes — Gas ①

Model Type	Gas — T Rating				
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +60 °C (+140 °F)	Ta = +65 °C (+149 °F)
LELED3	T6	T5	T5	T4	T4
LELED4	T5	T4	T4	T4	—
LELED5	T6	T5	T5	T5	T4
LELED6	T6	T5	T5	T4	—
LELED7	T5	T4	T4	T4	—

Temperature Codes — Dust ①

Model Type	Dust — Surface T°				
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +60 °C (+140 °F)	Ta = +65 °C (+149 °F)
LELED3	+54 °C (+129 °F)	+64 °C (+147 °F)	+69 °C (+156 °F)	+74 °C (+165 °F)	+79 °C (+174 °F)
LELED4	+55 °C (+131 °F)	+65 °C (+149 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)	—
LELED5	+53 °C (+127 °F)	+63 °C (+145 °F)	+68 °C (+154 °F)	+73 °C (+163 °F)	+78 °C (+172 °F)
LELED6	+54 °C (+129 °F)	+64 °C (+147 °F)	+69 °C (+156 °F)	+74 °C (+165 °F)	—
LELED7	+56 °C (+133 °F)	+66 °C (+151 °F)	+71 °C (+160 °F)	+76 °C (+169 °F)	—

“T” Numbers Represent the Maximum Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Above temperature code tables are related to standard luminaires with AC driver only. To see the temperature codes for emergency luminaire or for standard luminaire with DC driver, refer to the instruction manual.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

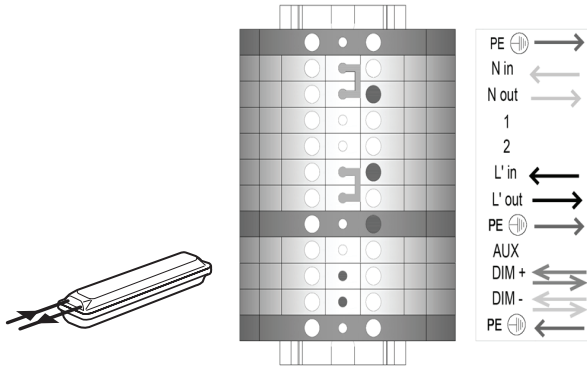
ATEX/IECx: Zones 1 and 2–21 and 22

Wiring Diagrams

Version: S

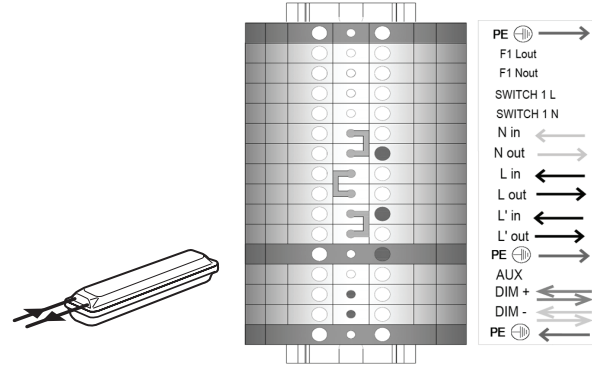
Standard Model

Standard (Single Phase), 3 Entries, 1 at one end and 2 at the other



Emergency Model

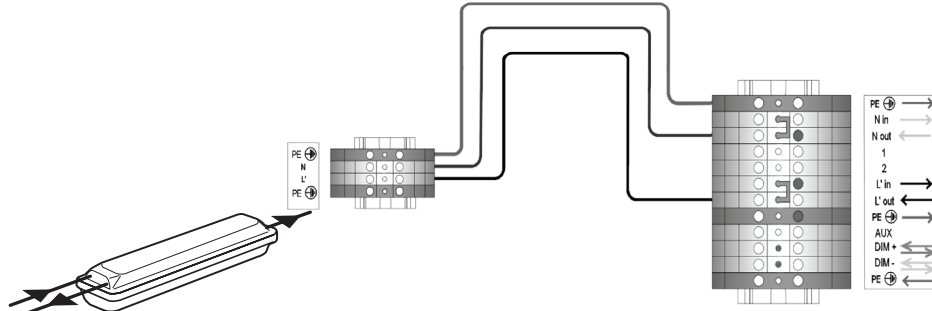
Standard (Single Phase), 3 Entries, 1 at one end and 2 at the other



Version : L

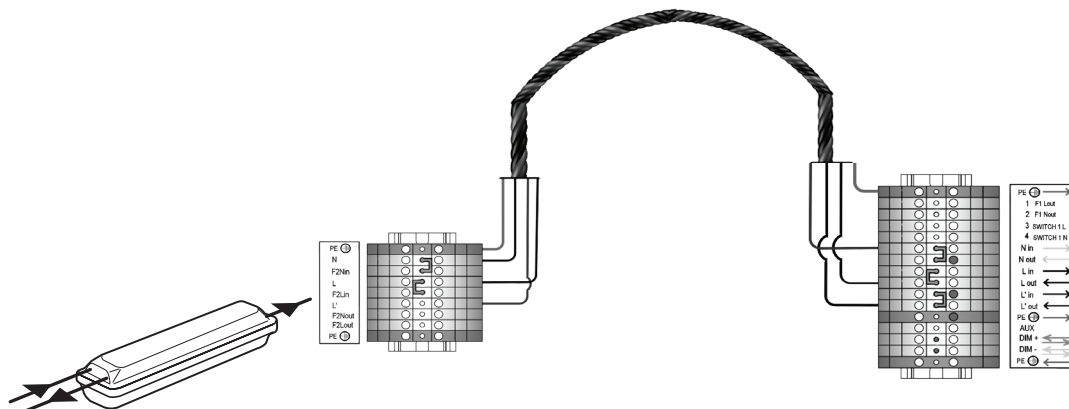
Standard Model

Dual Loop In / Out — Through Wiring (Single Phase), 3 Entries, 1 at one end and 2 at the other



Emergency Model

Dual Loop In / Out — Through Wiring (Single Phase), 3 Entries, 1 at one end and 2 at the other



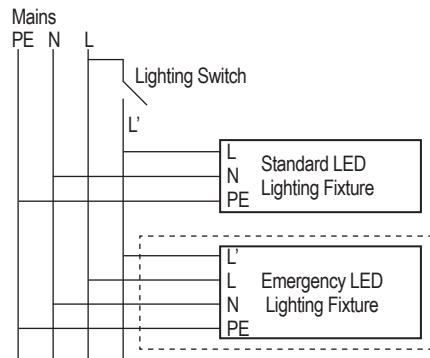
ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECx: Zones 1 and 2 – 21 and 22

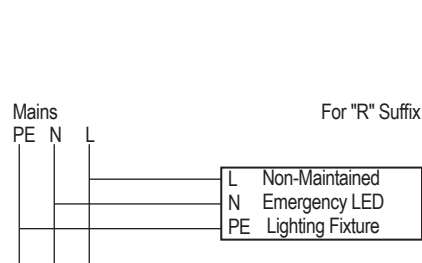
Maintained Emergency Linmaster

Wiring Diagram

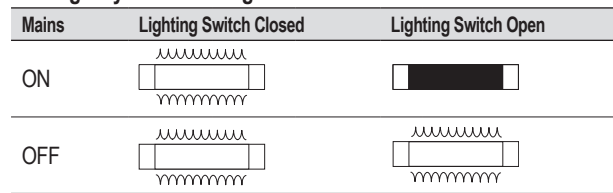


Non-Maintained Emergency Linmaster

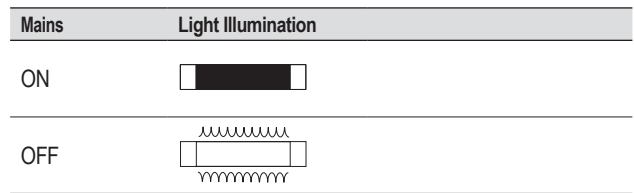
Wiring Diagram



Emergency Function Diagram - Maintained



Emergency Function Diagram - Non-Maintained



LED Signals

Indicator Color	Timing	Function
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition, Installation issue, Battery is reverse, not connected, or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicators (Red and Green) OFF	No AC, Emergency mode ON

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

At the completion of functional and full duration tests, and when AC power is present, LED indicators will display status of the emergency luminaire.

Functional Test	Full Duration Test
Starts within 24-48 hours after the initial power up of the luminaire	Starts within 5 to 26 days after the initial power up of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs once every 364 days after the initial duration test
Lasts for 30 seconds	Lasts for full duration of the rated emergency period

At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present

Emergency Light Duration









Lumen Level	Battery Capacity	Duration	Light Output	Duration	Light Output
3K (LELED3)	6 Ah – 6 V	180 minutes	5000K CCT: 741 lumens	90 minutes	5000K CCT: 1278 lumens
4K (LELED4)			5000K CCT: 741 lumens		5000K CCT: 1278 lumens
5K (LELED5)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens
6K (LELED6)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens
7K (LELED7)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEX: Zones 1 and 2–21 and 22

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Replacement Dome Cover			
	Diffused dome cover with gasket for 2ft Linmaster	0.8 (1.76)	LINDCVR2
	Diffused dome cover with gasket for 4ft Linmaster	1.4 (3.09)	LINDCVR4
	Clear dome cover with gasket for 2ft Linmaster	0.8 (1.76)	LINCCVR2
	Clear dome cover with gasket for 4ft Linmaster	1.4 (3.09)	LINCCVR4
Replacement Battery Pack and BMM			
	Replacement Battery pack (1 each)	0.73 (1.6)	BPLLED
	Replacement BMM (1 each)	0.65 (1.43)	BMMLLED ①
Replacement Fuse Assembly			
	Replacement fuse assembly (1 each)	0.02 (0.04)	APPFUSEZ1
Safety Cable			
	Stainless Steel	0.2 (0.4)	LEDSC
Fixing Brackets for Surface Installation — Set of Two			
	Zinc plated steel	0.39 (0.85)	FEFBZ
Brackets for Surface Mounting — Set of Two			
	316 stainless steel	0.64 (1.4)	FESBS
Hinged Brackets for Adjusting Luminaire			
	Aluminum	0.75 (1.7)	FEHBA
	316 stainless steel	0.57 (1.25)	FEHBS
M8 Ring Bolts — Set of Two			
	Zinc plated steel	0.11 (0.2)	FERBM8Z
Half Clamps Brackets for Pole Mounting — Set of two			
	Diameter for 1-1/4" to 1-1/2" pole: 42 mm to 49 mm (1.65" to 1.93")		
	• Zinc plated steel	0.34 (0.7)	FEHC49Z
	• 316 stainless steel	0.34 (0.7)	FEHC49S
	Diameter for 2" pole: 60 mm (2.3")		
	• Zinc plated steel	0.48 (1.1)	FEHC60Z
	• 316 stainless steel	0.52 (1.2)	FEHC60S
Linmaster mounting bracket			
	For 800 mm mounting dimension	0.75 (1.7)	LNMB800
Fall Prevention Kit — Safety chain retains fixture temporarily to ease installation			
	For M25 cable entry	0.76 (1.7)	FESCM25
	For M20 cable entry	0.76 (1.7)	FESCM20
	Description	Size in Millimeters (Inches)	Catalog Number
	Warning label, straight arrow — Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL200 ②
	Warning label, inclined arrow — Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL201 ②

① Not CE Marked.

② Exit labels for use with only 3000lm model, BU driver and clear cover option.

ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Replacement Drivers

Description	Weight in kg (lbs)	Catalog Number
LELED3CBU*, LELED3NBU*, LELED3WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD48
LELED4CBU*, LELED4NBU*, LELED4WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD56
LELED5CBU*, LELED5NBU*, LELED5WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD84
LELED6CBU*, LELED6NBU*, LELED6WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD96
LELED7CBU*, LELED7NBU*, LELED7WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD10
LELED3HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD42
LELED4HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD46
LELED5HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD89
LELED6HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD92
LELED7HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD95
LELED3VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD3
LELED4VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD30
LELED5VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD31
LELED6VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD3A
LELED7VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD32
LELED3CB2*, LELED3NB2*, LELED3WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC48
LELED4CB2*, LELED4NB2*, LELED4WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC56
LELED5CB2*, LELED5NB2*, LELED5WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC84
LELED6CB2*, LELED6NB2*, LELED6WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC96
LELED7CB2*, LELED7NB2*, LELED7WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC10
LELED3HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC42
LELED4HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC46
LELED5HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC89
LELED6HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC92
LELED7HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC95
LELED3VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC3
LELED4VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC30
LELED5VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC31
LELED6VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC3A
LELED7VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC32

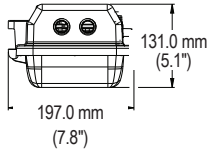
ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

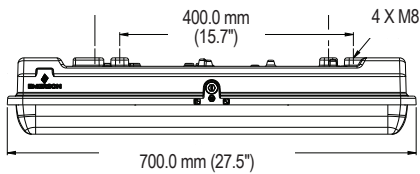
ATEX/IECEX: Zones 1 and 2–21 and 22

Luminaire Dimensions in Millimeters (Inches)

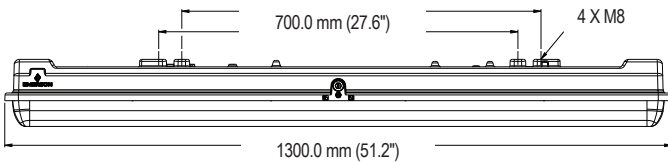
End View



Side View — 0.785 m (2.58 ft)



Side View — 1.39 m (4.56 ft) Version



Luminaire Specifications

Model	Length m (ft)	Weight in kg (lb)
Standard Model		
LELED3	0.70 (2.30)	5.00 (11.00)
LELED4		
LELED5	1.30 (4.30)	8.00 (17.50)
LELED6		
LELED7		
LELED3*E	0.70 (2.30)	6.40 (14.10)
LELED4*E		
LELED5*E	1.30 (4.30)	9.00 (19.80)
LELED6*E		
LELED7*E		
LELED3*H	0.70 (2.30)	6.40 (14.10)
LELED4*H		
LELED5*H	1.30 (4.30)	9.00 (19.80)
LELED6*H		
LELED7*H		

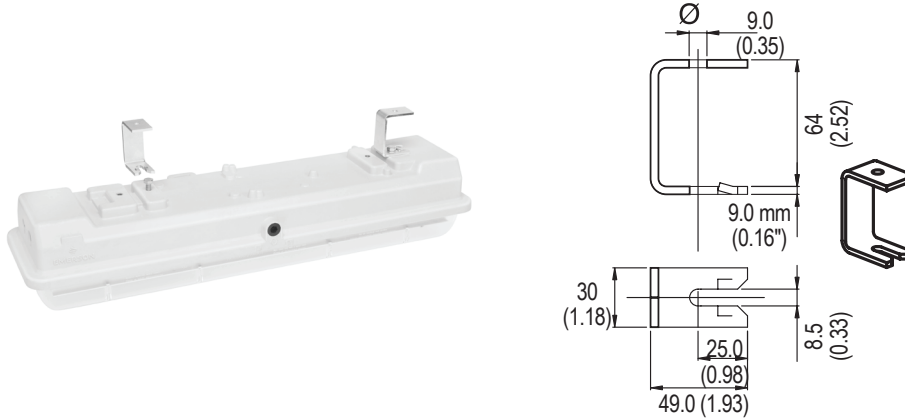
ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

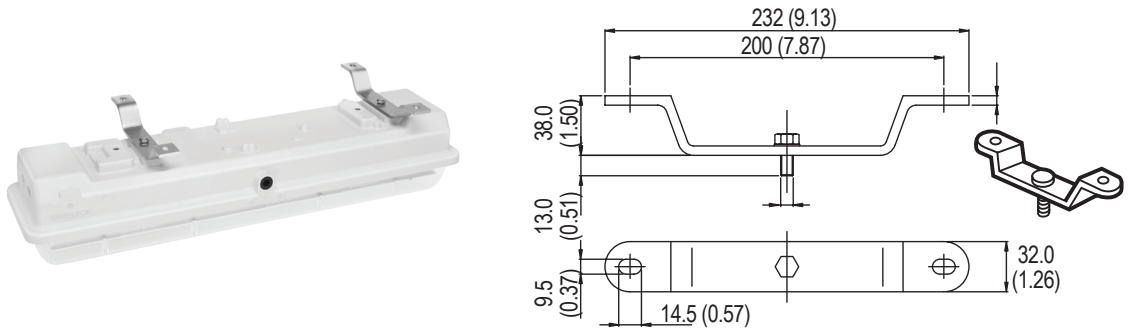
ATEX/IECEx: Zones 1 and 2–21 and 22

Mounting Options Dimensions in Millimeters (Inches)

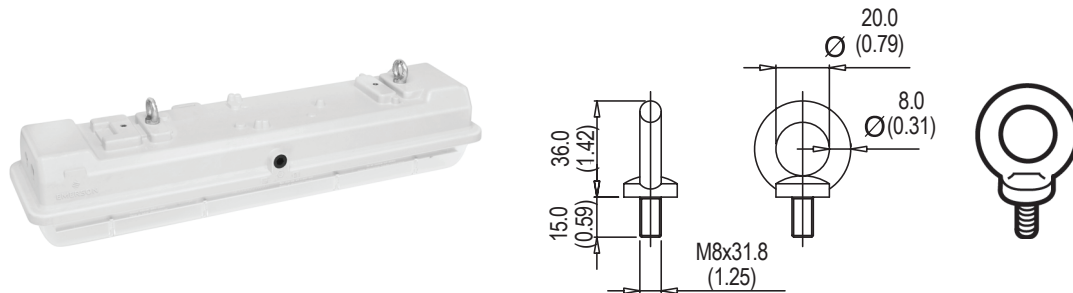
FEFBZ: zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



FESBS: 316 stainless steel — Set of two brackets for surface mounting



FERBM8Z: zinc plated steel — Set of two ring bolts



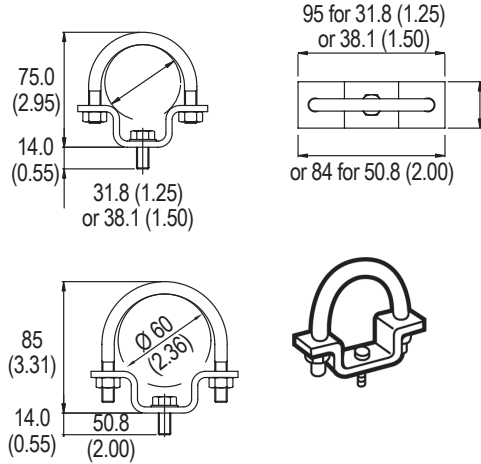
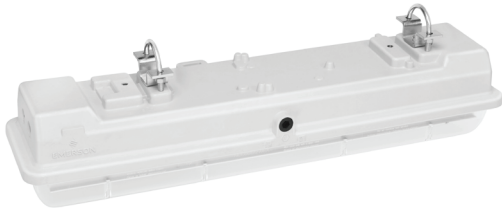
ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

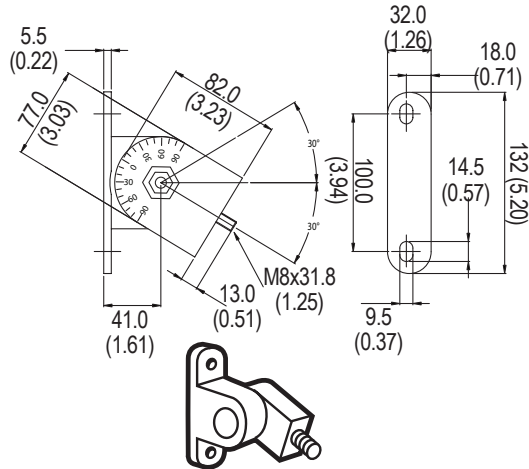
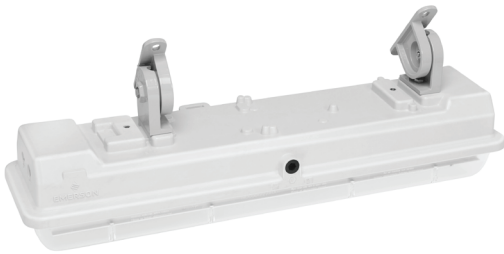
ATEX/IECx: Zones 1 and 2–21 and 22

Mounting Options Dimensions in Millimeters (Inches)

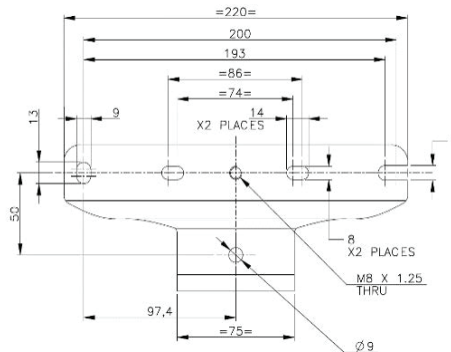
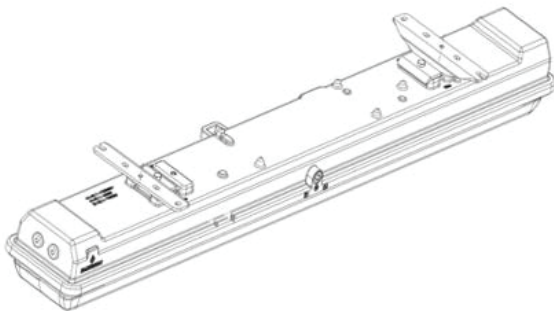
FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4" to 1-1/2" pole).
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2" pole).



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.



MOUNTING AT 800 mm CD— Only For 1300mm Model



ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECx: Zones 1 and 2–21 and 22

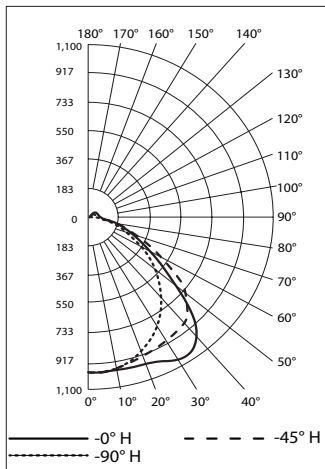
Photometric Data — DATA SHOWN IS ABSOLUTE

700 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: **LELED3CBU**D**

Luminaire Lumens 3,000

POLAR CANDELA DISTRIBUTION

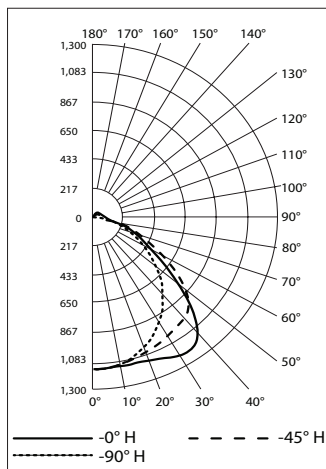


700 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: **LELED4CBU**D**

Luminaire Lumens 4,000

POLAR CANDELA DISTRIBUTION

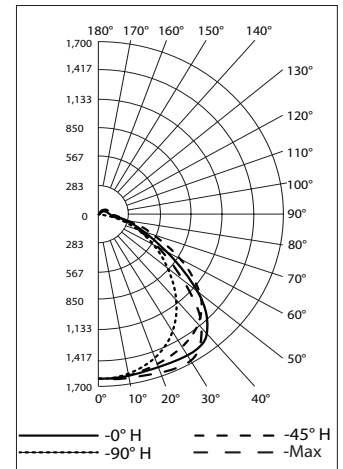


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: **LELED5CBU**D**

Luminaire Lumens 5,000

POLAR CANDELA DISTRIBUTION

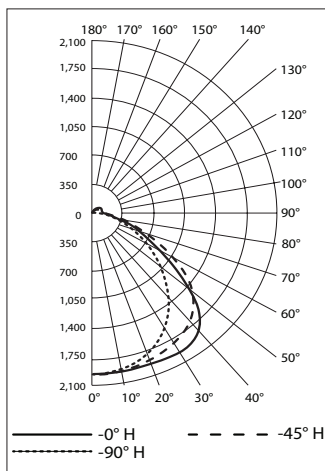


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: **LELED6CBU**D**

Luminaire Lumens 6,000

POLAR CANDELA DISTRIBUTION

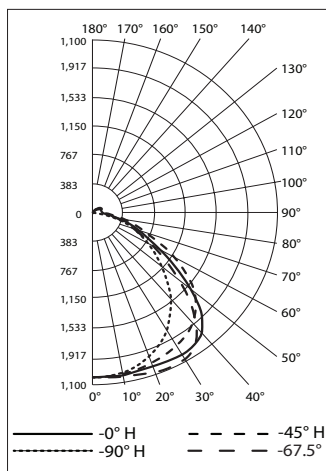


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: **LELED7CBU**D**

Luminaire Lumens 7,000

POLAR CANDELA DISTRIBUTION



ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECx: Zones 2 – 21 and 22

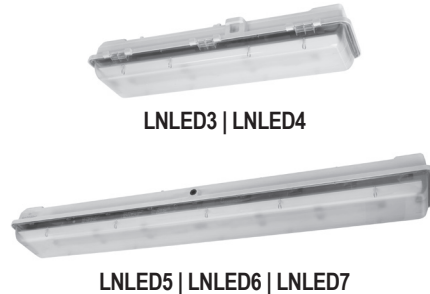
Applications

- For use in locations where:
 - Hazardous areas are designated as Zone 2, 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical applications include:
 - Oil refineries
 - Petrochemical facilities
 - Food processing plants
 - Waste and water treatment plants
 - Underground tunnels
 - General manufacturing facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Available in 5000K, 4000K, 3000K and 2200K Color Temperatures.
- Luminaire with optional green color LEDs is available.
- Easy to retrofit in same mounting footprint as the Appleton FN Series nonmetallic fluorescent luminaires and FNLED Series non-metallic LED luminaires, and nonmetallic fluorescent luminaires from different manufacturers.
- Full range of lumen outputs, with light distribution equivalent to the Appleton FN Series fluorescent luminaires and FNLED Series non-metallic LED luminaires.
- 0-10V dimming capable.
- To prevent deep discharge of the batteries, emergency luminaires can be ordered and shipped without batteries, then batteries can be ordered and shipped separately prior to installation in the field when needed.
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate dome cover.
- Retention point integrated in the luminaire's housing for safety cable installation.
- High impact resistance housing (20 Joules – IK10) from -40 °C to +65 °C (-40 °F to +149 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- L70:

+25 °C (+77 °F)	Reported	> 102,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 102,000 hours
Ambient Temperature	Calculated	> 200,000 hours
- Lightweight design, hinged cover with central lock system, and terminal block wiring for easy installation and maintenance.
- Contemporary, low profile design suitable for tight spaces.
- Standard screw-type terminal block can accept 1.5 to 6 mm² wire.
- Field replaceable LED driver.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency drivers in standard luminaire models, cover voltage requirements for 100 to 277 Vac, 50/60 Hz for standard and emergency models. Optional DC voltages: 125-300 Vdc or 24-48 Vdc are available with the standard luminaire models.
- High power factor electronic driver (>0.95).
- Standard 6 kV surge suppression.
- Appleton emergency exit labels can safely be secured on the polycarbonate dome cover.



- M20 plug or M25 plug provided.
- Latch assembly and elastomer gasket seals against water and dust ingress.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Available in 1.5 H or 3 H emergency version, including built-in monthly self-test. Test results through multi-colored LED.
- Optional positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations.

Warranty [Ⓞ]

- 10 year standard warranty.

Options

- Emergency/Battery Back-Up available for all models;
 - Add suffix -H to the end of the catalog number for 90 minutes. Example: LNLED5CBUSADH
 - Add suffix -E to the end of the catalog number for 180 minutes. Example: LNLED5CBUSADE

Standard Materials

- Housing: fiberglass reinforced polyester
- Dome cover: polycarbonate
- Gasket: elastomer
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

ATEX/IECx Certifications and Compliances

- Certification Type: LNLED
 - Gas: Zone 2
 - Conforming to ATEX 2014/34/EU: II 3 G
 - Type of Protection: Ex ec IIC Gc
 - Temperature Class: T5 to T3
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: II 3 D
 - Type of Protection: Ex tc IIIC Dc
- Ambient Temperature:
 - Standard Luminaire Ambient Temperature: -40 °C up to +65 °C (-40 °F up to +149 °F), refer to temperature codes table.
 - Emergency Luminaire Ambient Temperature: -20 °C up to +60 °C (-4 °F up to +140 °F)

Ⓞ For warranty details go to www.appleton.emerson.com.

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEX: Zones 2 – 21 and 22

- ATEX Certificate:
 - For II 2 D : INERIS 24ATEX0002X
 - For II 3 G : INERIS 24ATEX3001X
- IECEX Certificate: IECEX INE 24.0002X
- Index of Protection according EN/IEC 60529: IP66 / 67 / 68.
 - IPX8 testing was conducted at 1.5 m water depth for a duration of 45 min.
- Impact Resistance (shock): IK10
- Photobiological Safety, IEC 62778 and IEC 62471: RG0

Related Products

- ATX™ Linmaster™ LED Zone 1 Series Nonmetallic Luminaires
- ATX™ FELED Series Nonmetallic LED Luminaires

Order Using Catalog Numbering Guide — ATX™ Linmaster Zone 2 Series Nonmetallic LED Luminaires

<u>LNLED</u>	<u>3</u>	<u>C</u>	<u>BU</u>	<u>S</u>	<u>A</u>	<u>D</u>	<u>W</u>	<u>E</u>	<u>F</u>
Series Prefix: LNLED - Zone 2, 21, 22 ATEX/IECEX Certified		Color Temperature (CCT): C - 5000K (Cool) N - 4000K (Neutral) W - 3000K (Warm) H - 2200K V - Green		Wiring Version: S - Surface/Suspension Mount Standard Wiring (single phase) L - Surface/Suspension Mount Dual Loop In/Out Through Wiring (single phase)		Optic: Blank - Clear D - Diffused		Emergency: Blank - No Emergency R - 90 minutes (non-maintained) H - 90 minutes (maintained) E - 180 minutes (maintained)	
Lumen Output ①: 3 - 3K 4 - 4K 5 - 5K 6 - 6K 7 - 7K			Voltage: BU - 100 to 277 Vac, 50/60 Hz; 125-300 Vdc B2 - 24-48 Vdc ②		Cable Entry: A - Armored M20 ③ U - Unarmored M20 ④ N - Unarmored M25 ④ R - Armored M25 ③		Battery Pack: Blank - Emergency Luminaire with Battery Pack W - Emergency Luminaire without Battery Pack		Cutoff Switch: Blank - No switch F - With cutoff switch ⑤

① All values displayed reflect typical values (+/- 10%).

② DC voltages can only be used with IECEX certified standard luminaires. Not available with ATEX certification.

③ Must order armored cable glands separately.

④ Cable glands provided in luminaires with unarmored hub entries.

⑤ Select to have cutoff switch with standard or emergency model.

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IEEx: Zones 2 – 21 and 22

Lumen Output (Efficacy) ①

Model	Fluorescent Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Cover — Standard Mode														
LNLED3	3 x 18W	Linear	3000K	≥80	3629	140	4000K	≥80	3835	148	5000K	≥80	3881	150
LNLED4	2 x 36W	Linear	3000K	≥80	4189	139	4000K	≥80	4427	147	5000K	≥80	4480	148
LELED5	3 x 36W	Linear	3000K	≥80	5990	147	4000K	≥80	6330	155	5000K	≥80	6407	157
LNLED6	2 x 58W	Linear	3000K	≥80	7143	145	4000K	≥80	7548	153	5000K	≥80	7640	155
LNLED7	3 x 58W	Linear	3000K	≥80	7933	145	4000K	≥80	8383	153	5000K	≥80	8485	155
Clear Cover — Emergency Model 90 Minutes														
LNLED3*H	3 x 18W	Linear	3000K	≥80	3629 1284	115	4000K	≥80	3835 1356	122	5000K	≥80	3881 1373	123
LNLED4*H	2 x 36W	Linear	3000K	≥80	4189 1284	115	4000K	≥80	4427 1356	121	5000K	≥80	4480 1373	123
LNLED5*H	3 x 36W	Linear	3000K	≥80	5990 1313	130	4000K	≥80	6330 1388	137	5000K	≥80	6407 1405	139
LNLED6*H	2 x 58W	Linear	3000K	≥80	7143 1313	131	4000K	≥80	7458 1388	138	5000K	≥80	7640 1405	140
LNLED7*H	3 x 58W	Linear	3000K	≥80	7933 1313	132	4000K	≥80	8383 1388	139	5000K	≥80	8485 1405	141
Clear Cover — Emergency Model 180 Minutes														
LNLED3*E	3 x 18W	Linear	3000K	≥80	3629 759	115	4000K	≥80	3835 802	122	5000K	≥80	3881 812	123
LNLED4*E	2 x 36W	Linear	3000K	≥80	4189 759	115	4000K	≥80	4427 802	121	5000K	≥80	4480 812	123
LNLED5*E	3 x 36W	Linear	3000K	≥80	5990 771	130	4000K	≥80	6330 814	137	5000K	≥80	6407 824	139
LNLED6*E	2 x 58W	Linear	3000K	≥80	7143 771	131	4000K	≥80	7458 814	138	5000K	≥80	7640 824	140
LNLED7*E	3 x 58W	Linear	3000K	≥80	7933 771	132	4000K	≥80	8383 814	139	5000K	≥80	8485 824	141
Diffused Cover — Standard Model														
LNLED3	3 x 18W	Linear	3000K	≥80	3302	128	4000K	≥80	3425	133	5000K	≥80	3504	134
LNLED4	2 x 36W	Linear	3000K	≥80	3812	126	4000K	≥80	3953	131	5000K	≥80	4045	134
LNLED5	3 x 36W	Linear	3000K	≥80	5419	133	4000K	≥80	5620	138	5000K	≥80	5751	141
LNLED6	2 x 58W	Linear	3000K	≥80	6462	131	4000K	≥80	6702	136	5000K	≥80	6857	139
LNLED7	3 x 58W	Linear	3000K	≥80	7177	131	4000K	≥80	7443	136	5000K	≥80	7616	139
Diffused Cover — Emergency Model 90 Minutes														
LNLED3*H	3 x 18W	Linear	3000K	≥80	3302 1191	105	4000K	≥80	3423 1235	108	5000K	≥80	3502 1264	111
LNLED4*H	2 x 36W	Linear	3000K	≥80	3812 1191	104	4000K	≥80	3953 1235	108	5000K	≥80	4045 1264	111
LNLED5*H	3 x 36W	Linear	3000K	≥80	5436 1219	118	4000K	≥80	5638 1265	122	5000K	≥80	5769 1294	125
LNLED6*H	2 x 58W	Linear	3000K	≥80	6462 1219	118	4000K	≥80	6702 1265	122	5000K	≥80	6857 1294	125
LNLED7*H	3 x 58W	Linear	3000K	≥80	6453 1219	119	4000K	≥80	7443 1265	123	5000K	≥80	7616 1294	126
Diffused Cover — Emergency Model 180 Minutes														
LNLED3*E	3 x 18W	Linear	3000K	≥80	3302 702	105	4000K	≥80	3423 728	108	5000K	≥80	3502 745	111
LNLED4*E	2 x 36W	Linear	3000K	≥80	3812 702	104	4000K	≥80	3953 728	108	5000K	≥80	4045 745	111
LNLED5*E	3 x 36W	Linear	3000K	≥80	5436 710	118	4000K	≥80	5638 736	122	5000K	≥80	5769 753	125
LNLED6*E	2 x 58W	Linear	3000K	≥80	6462 710	118	4000K	≥80	6702 736	122	5000K	≥80	6857 753	125
LNLED7*E	3 x 58W	Linear	3000K	≥80	6453 710	119	4000K	≥80	7443 736	123	5000K	≥80	7616 753	126

① All values are typical (+/- 10%).

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2 – 21 and 22

Electrical Specifications — AC Driver at 230 Vac ①

Model	Voltage	Input Power (Watt)	Input Current (A)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
LNLED3	230 Vac	26	0.118	>0.9	<20%
LNLED4	230 Vac	30	0.136	>0.9	<20%
LNLED5	230 Vac	41	0.186	>0.9	<20%
LNLED6	230 Vac	49	0.225	>0.9	<20%
LNLED7	230 Vac	55	0.251	>0.9	<20%
Emergency Model 90 Minutes					
LNLED3*E	230 Vac	32	0.160	>0.8	<20%
LNLED4*E	230 Vac	37	0.179	>0.8	<20%
LNLED5*E	230 Vac	46	0.220	>0.9	<20%
LNLED6*E	230 Vac	55	0.257	>0.9	<20%
LNLED7*E	230 Vac	60	0.283	>0.9	<20%
Emergency Model 180 Minutes					
LNLED3*H	230 Vac	32	0.160	>0.8	<20%
LNLED4*H	230 Vac	37	0.179	>0.8	<20%
LNLED5*H	230 Vac	46	0.220	>0.9	<20%
LNLED6*H	230 Vac	55	0.257	>0.9	<20%
LNLED7*H	230 Vac	60	0.283	>0.9	<20%

Electrical Specifications — DC Driver at 24 Vdc ①

Model	Voltage	Input Power (Watt)	Input Current (A)	Power Factor (PF)	Total Harmonic Distortion (THD)
LNLED3	24 Vdc	24	1.0	N/A	N/A
LNLED4	24 Vdc	27	1.1	N/A	N/A
LNLED5	24 Vdc	43	1.8	N/A	N/A
LNLED6	24 Vdc	50	2.1	N/A	N/A
LNLED7	24 Vdc	57	2.4	N/A	N/A

① All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEX: Zones 2 – 21 and 22

Temperature Codes — Gas

Model Type	Gas — T Rating				
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +60 °C (+140 °F)	Ta = +65 °C (+149 °F)
LNLED3	T6	T5	T5	T4	T4
LNLED4	T5	T4	T4	T4	—
LNLED5	T6	T5	T5	T5	T4
LNLED6	T6	T5	T5	T4	—
LNLED7	T5	T4	T4	T4	—

Temperature Codes — Dust

Model Type	Dust — Surface T°				
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +60 °C (+140 °F)	Ta = +65 °C (+149 °F)
LNLED3	+54 °C (+129 °F)	+64 °C (+147 °F)	+69 °C (+156 °F)	+74 °C (+165 °F)	+79 °C (+174 °F)
LNLED4	+55 °C (+131 °F)	+65 °C (+149 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)	—
LNLED5	+53 °C (+127 °F)	+63 °C (+145 °F)	+68 °C (+154 °F)	+73 °C (+163 °F)	+78 °C (+172 °F)
LNLED6	+54 °C (+129 °F)	+64 °C (+147 °F)	+69 °C (+156 °F)	+74 °C (+165 °F)	—
LNLED7	+56 °C (+133 °F)	+66 °C (+151 °F)	+71 °C (+160 °F)	+76 °C (+169 °F)	—

“T” Numbers Represent the Maximum Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Above temperature code tables are related to standard luminaires with AC driver only. To see the temperature codes for emergency luminaire or for standard luminaire with DC driver, refer to the instruction manual.

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

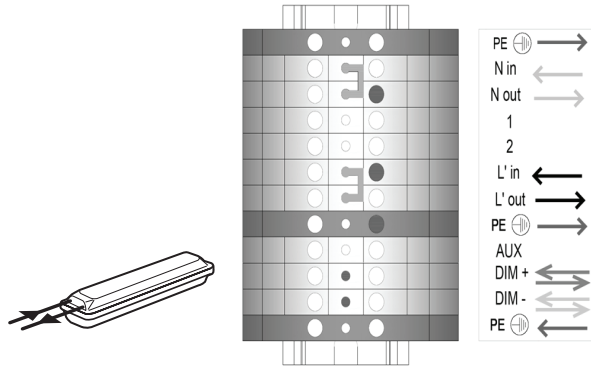
ATEX/IECEx: Zones 2 – 21 and 22

Wiring Diagrams

Version: S

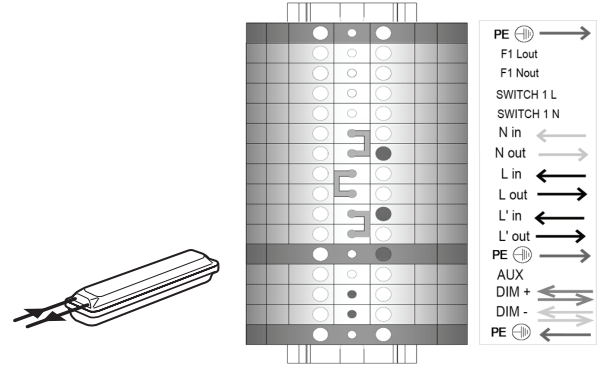
Standard Model

Standard (Single Phase), 3 Entries, 1 at one end and 2 at the other



Emergency Model

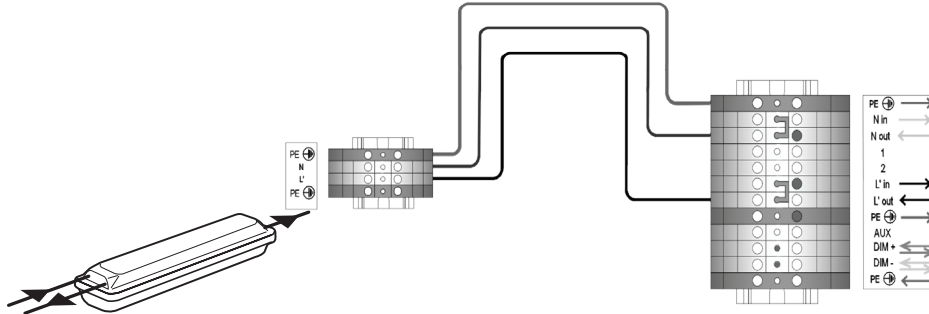
Standard (Single Phase), 3 Entries, 1 at one end and 2 at the other



Version : L

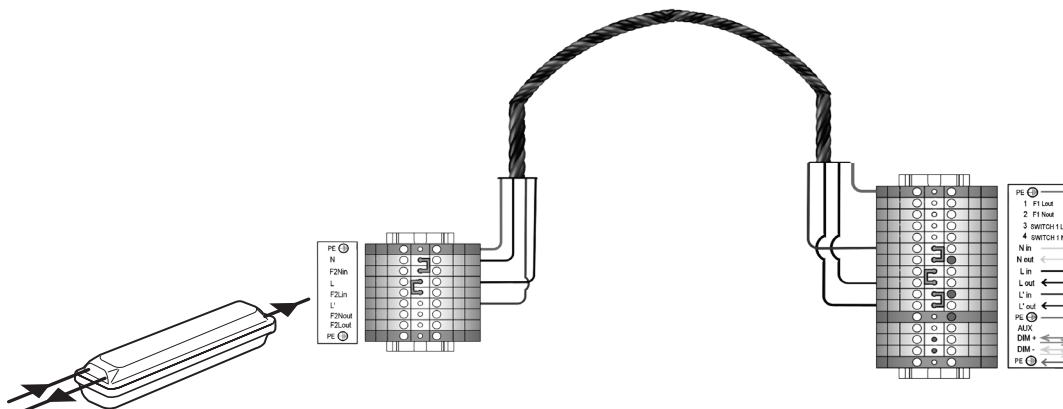
Standard Model

Dual Loop In / Out — Through Wiring (Single Phase), 3 Entries, 1 at one end and 2 at the other



Emergency Model

Dual Loop In / Out — Through Wiring (Single Phase), 3 Entries, 1 at one end and 2 at the other



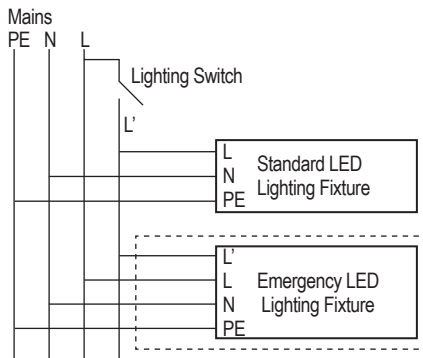
ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEX: Zones 2 – 21 and 22

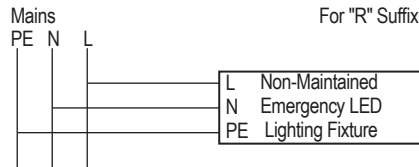
Maintained Emergency Linmaster

Wiring Diagram

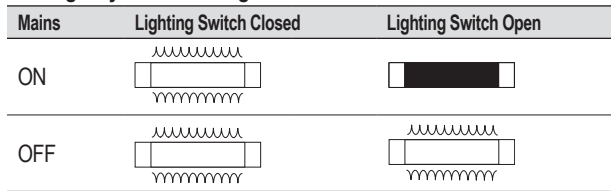


Non-Maintained Emergency Linmaster

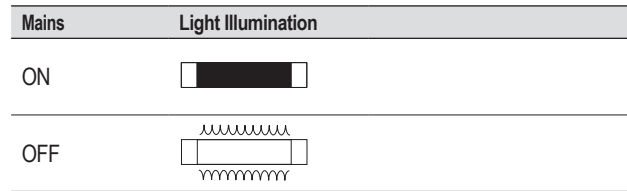
Wiring Diagram



Emergency Function Diagram - Maintained



Emergency Function Diagram - Non-Maintained



LED Signals

Indicator Color	Timing	Function
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition, Installation issue, Battery is reverse, not connected, or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicators (Red and Green) OFF	No AC, Emergency mode ON

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

At the completion of functional and full duration tests, and when AC power is present, LED indicators will display status of the emergency luminaire.

Functional Test	Full Duration Test
Starts within 24-48 hours after the initial power up of the luminaire	Starts within 5 to 26 days after the initial power up of the module
Occurs every 14 days after the initial aforementioned functional test	Occurs once every 364 days after the initial duration test
Lasts for 30 seconds	Lasts for full duration of the rated emergency period

At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present

Emergency Light Duration









Lumen Level	Battery Capacity	Duration	Light Output	Duration	Light Output
3K (LNLED3)	6 Ah – 6 V	180 minutes	5000K CCT: 741 lumens	90 minutes	5000K CCT: 1278 lumens
4K (LNLED4)			5000K CCT: 741 lumens		5000K CCT: 1278 lumens
5K (LNLED5)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens
6K (LNLED6)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens
7K (LNLED7)			5000K CCT: 758 lumens		5000K CCT: 1482 lumens

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECx: Zones 2 – 21 and 22

Accessories and Replacement Parts			
	Description	Weight in kg (lbs)	Catalog Number
Replacement Dome Cover			
	Diffused dome cover with gasket for 2ft Linmaster	0.8 (1.76)	LINDCVR2
	Diffused dome cover with gasket for 4ft Linmaster	1.4 (3.09)	LINDCVR4
	Clear dome cover with gasket for 2ft Linmaster	0.8 (1.76)	LINCCVR2
	Clear dome cover with gasket for 4ft Linmaster	1.4 (3.09)	LINCCVR4
Replacement Battery Pack and BMM			
	Replacement Battery pack (1 each)	0.73 (1.6)	BPLLED
	Replacement BMM (1 each)	0.65 (1.43)	BMMLLED ①
Replacement Fuse Assembly			
	Replacement fuse assembly (1 each)	0.02 (0.04)	APPFUSEZ1
Safety Cable			
	Stainless Steel	0.2 (0.4)	LEDSC
Fixing Brackets for Surface Installation — Set of Two			
	Zinc plated steel	0.39 (0.85)	FEFBZ
Brackets for Surface Mounting — Set of Two			
	316 stainless steel	0.64 (1.4)	FESBS
Hinged Brackets for Adjusting Luminaire			
	Aluminum	0.75 (1.7)	FEHBA
	316 stainless steel	0.57 (1.25)	FEHBS
M8 Ring Bolts — Set of Two			
	Zinc plated steel	0.11 (0.2)	FERBM8Z
Half Clamps Brackets for Pole Mounting — Set of two			
	Diameter for 1-1/4" to 1-1/2" pole: 42 mm to 49 mm (1.65" to 1.93")		
	• Zinc plated steel	0.34 (0.7)	FEHC49Z
	• 316 stainless steel	0.34 (0.7)	FEHC49S
	Diameter for 2" pole: 60 mm (2.3")		
	• Zinc plated steel	0.48 (1.1)	FEHC60Z
	• 316 stainless steel	0.52 (1.2)	FEHC60S
Linmaster mounting bracket			
	For 800 mm mounting dimension	0.75 (1.7)	LNMB800
Fall Prevention Kit — Safety chain retains fixture temporarily to ease installation			
	For M25 cable entry	0.76 (1.7)	FESCM25
	For M20 cable entry	0.76 (1.7)	FESCM20
	Description	Size in Millimeters (Inches)	Catalog Number
	Warning label, straight arrow — Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL200 ②
	Warning label, inclined arrow — Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL201 ②

① Not CE Marked.

② Exit labels for use with only 3000lm model, BU driver and clear cover option.

ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/IECEx: Zones 2 – 21 and 22

Replacement Drivers

Description	Weight in kg (lbs)	Catalog Number
LNLED3CBU*, LNLED3NBU*, LNLED3WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD48
LNLED4CBU*, LNLED4NBU*, LNLED4WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD56
LNLED5CBU*, LNLED5NBU*, LNLED5WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD84
LNLED6CBU*, LNLED6NBU*, LNLED6WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD96
LNLED7CBU*, LNLED7NBU*, LNLED7WBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD10
LNLED3HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD42
LNLED4HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD46
LNLED5HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD89
LNLED6HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD92
LNLED7HBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD95
LNLED3VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD3
LNLED4VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD30
LNLED5VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD31
LNLED6VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD3A
LNLED7VBU* Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD32
LNLED3CB2*, LNLED3NB2*, LNLED3WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC48
LNLED4CB2*, LNLED4NB2*, LNLED4WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC56
LNLED5CB2*, LNLED5NB2*, LNLED5WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC84
LNLED6CB2*, LNLED6NB2*, LNLED6WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC96
LNLED7CB2*, LNLED7NB2*, LNLED7WB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC10
LNLED3HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC42
LNLED4HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC46
LNLED5HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC89
LNLED6HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC92
LNLED7HB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC95
LNLED3VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC3
LNLED4VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC30
LNLED5VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC31
LNLED6VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC3A
LNLED7VB2* Replacement Driver (1 each)	0.95 (2.09)	APMZ050C130DC32

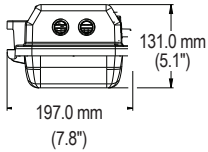
ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

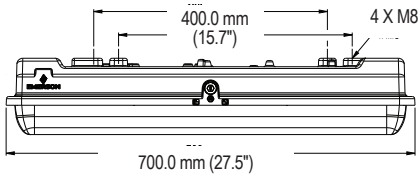
ATEX/IECEx: Zones 2 – 21 and 22

Luminaire Dimensions in Millimeters (Inches)

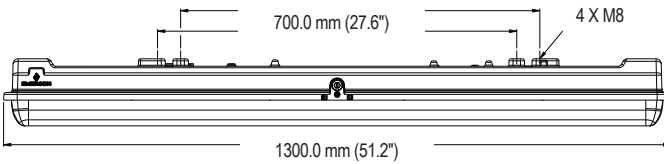
End View



Side View — 0.785 m (2.58 ft)



Side View — 1.39 m (4.56 ft) Version



Luminaire Specifications

Model	Length m (ft)	Weight in kg (lb)
Standard Model		
LNLED3	0.79 (2.58)	5.00 (11.00)
LNLED4		
LNLED5	1.39 (4.56)	8.00 (17.50)
LNLED6		
LNLED7		
Emergency Model		
LNLED3	0.79 (2.58)	6.40 (13.10)
LNLED4		
LNLED5	1.39 (4.56)	9.00 (19.80)
LNLED6		
LNLED7		

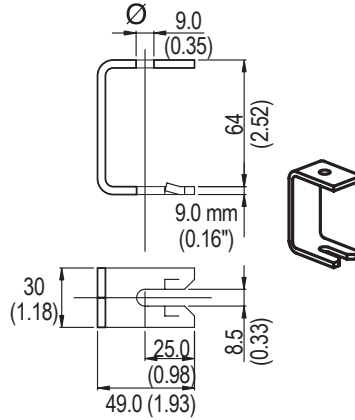
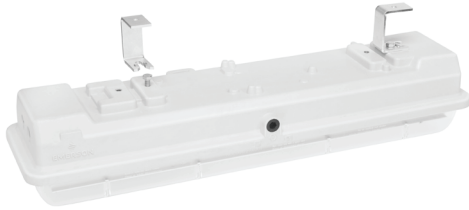
ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

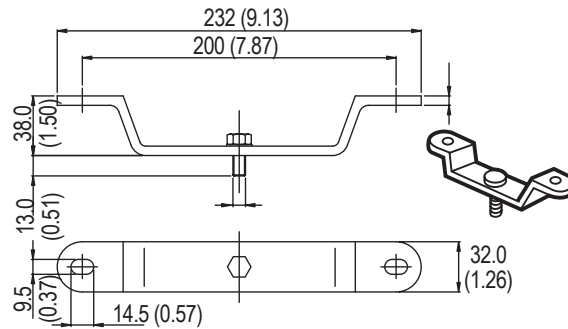
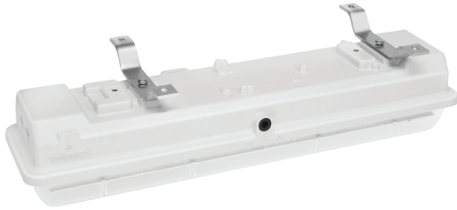
ATEX/IECEX: Zones 2 – 21 and 22

Mounting Options Dimensions in Millimeters (Inches)

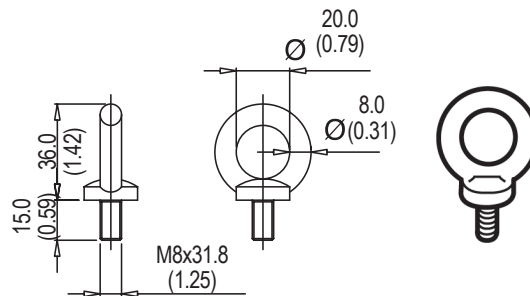
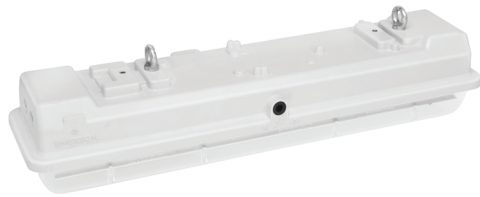
FEFBZ: zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



FESBS: 316 stainless steel — Set of two brackets for surface mounting



FERBM8Z: zinc plated steel — Set of two ring bolts



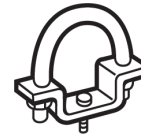
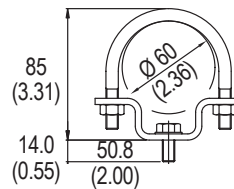
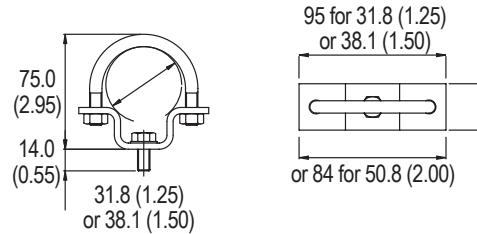
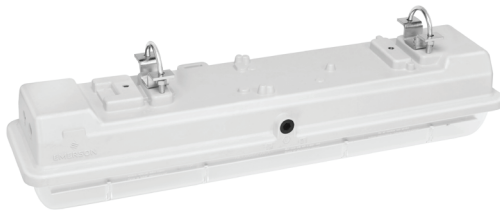
ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

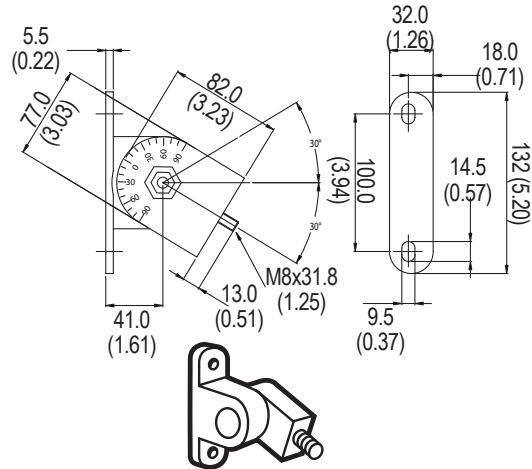
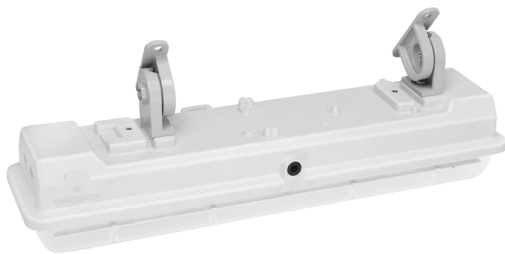
ATEX/IECEx: Zones 2 – 21 and 22

Mounting Options Dimensions in Millimeters (Inches)

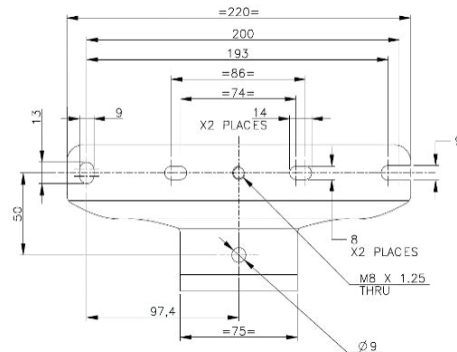
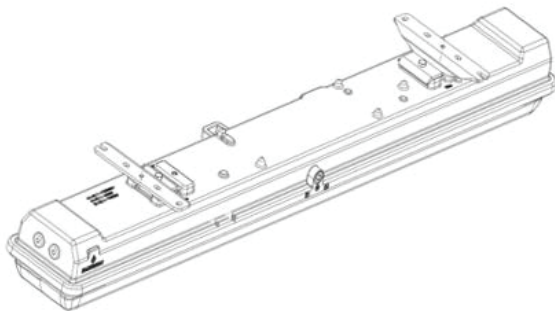
FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4" to 1-1/2" pole).
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2" pole).



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.



MOUNTING AT 800 mm CD- Only For 1300mm Model



ATX™ Linmaster™ LED Zone 2 Series Nonmetallic Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECx: Zones 2 – 21 and 22

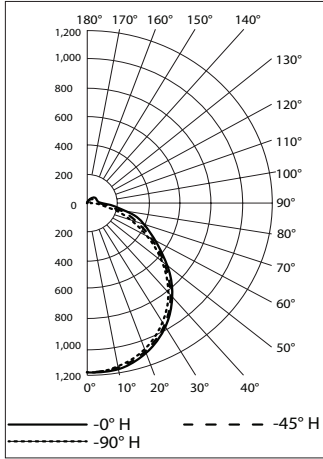
Photometric Data — DATA SHOWN IS ABSOLUTE

700 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: LNLED3CBU**D

Luminaire Lumens 3,000

POLAR CANDELA DISTRIBUTION

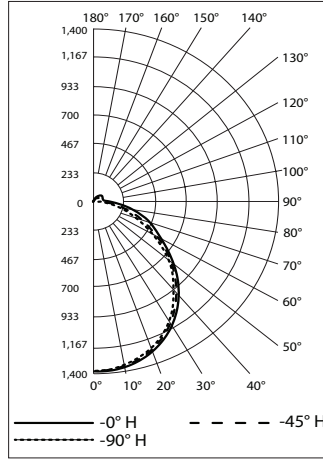


700 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: LNLED4CBU**D

Luminaire Lumens 4,000

POLAR CANDELA DISTRIBUTION

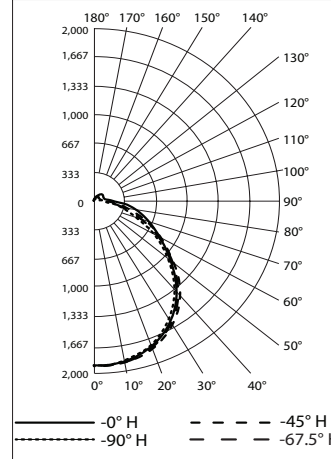


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: LNLED5CBU**D

Luminaire Lumens 5,000

POLAR CANDELA DISTRIBUTION

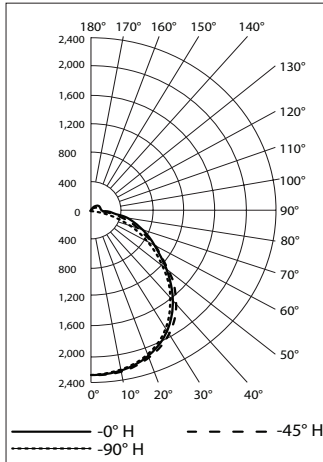


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: LNLED6CBU**D

Luminaire Lumens 6,000

POLAR CANDELA DISTRIBUTION

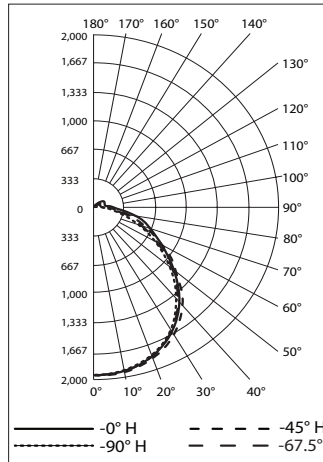


1300 mm, Diffused Polycarbonate, 5000K CCT

CATALOG NUMBER: LNLED7CBU**D

Luminaire Lumens 7,000

POLAR CANDELA DISTRIBUTION



ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- For use in locations where:
 - Hazardous areas are designated as Zone 1 and 2 – 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical applications include:
 - Oil refineries and petrochemical facilities
 - Food processing plants
 - Waste and water treatment plants
 - Underground tunnels
 - General manufacturing facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Available in 5000K or 4000K Correlated Color Temperatures.
- Meets photobiological requirement for Risk Group 0 (RG0).
- Easy to retrofit in same mounting footprint as the Appleton FE Series nonmetallic fluorescent luminaires.
- Full range of lumen outputs, with light distribution equivalent to the Appleton FE Series fluorescent luminaires.
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules – IK10) from -30 °C to +55 °C (-22 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- Reported L70:

+25 °C (+77 °F)	Reported	>102,000
	Calculated	400,000
+55 °C (+131 °F)	Reported	>102,000
	Calculated	260,000
- Lightweight design, hinged cover with captive screws, and terminal block wiring for easy installation and maintenance.
- Contemporary, low profile design suitable for tight spaces.
- Standard screw-type terminal block can accept 4 mm²/6 mm² (flexible/rigid) wire.
- Field replaceable LED driver.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency, drivers cover voltage requirements for 120-277 Vac, 125-300 Vdc, 50/60 Hz +/-10%.
- High power factor electronic driver (>0.95).
- Standard 6 kV surge suppression.
- M20 plug or M25 plug provided.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Available in 3 hour emergency version, including built-in monthly self-test. Test results through multi-colored LED.
- Positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations (emergency version).
- Ex e battery with plug-in connector.

Warranty

- 5 year standard warranty.

① Available for 3K and 5K lumen models only.

✪ For warranty details go to www.appleton.emerson.com.



Options

- 3 Hours Emergency/Battery Back-Up available ①;
 - Add suffix **-E** to the end of the catalog number.
 - Example: FELED5CBUSADE

Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate
- Diffuser: polycarbonate
- Gasket: elastomer
- Internal reflector: highly reflective white polycarbonate (standard versions) or powder coated aluminum (emergency versions)
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

ATEX/IECEX Certifications and Compliances

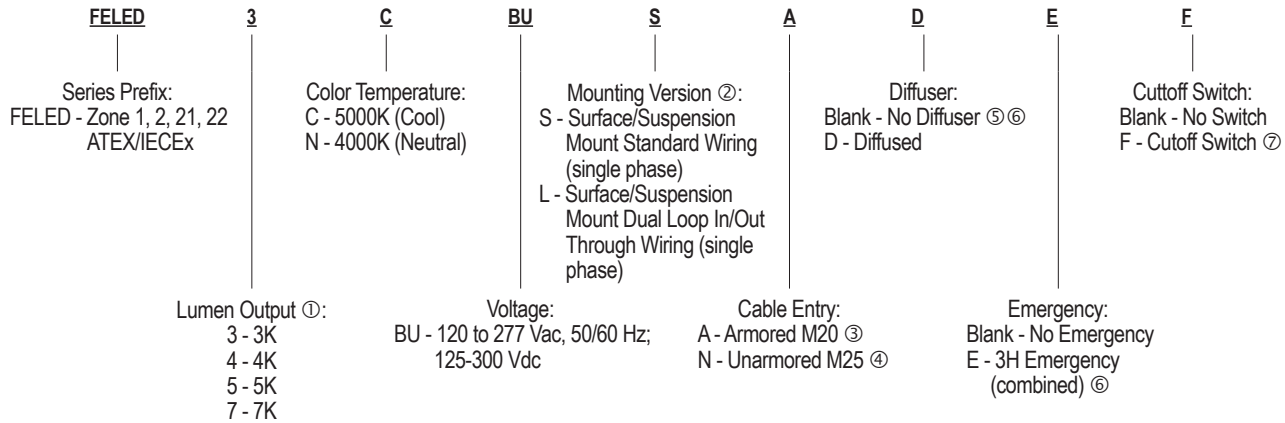
- Certification Type: FELED30
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex eb mb IIC Gb
 - Temperature Class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +60 °C to +75 °C (+140 °F to +167 °F)
 - Ambient Temperature: -30 °C up to +55 °C (-22 °F up to +131 °F)
 - ATEX Certificate: INERIS 18 ATEX 0042X
 - UKEX Certificate: CML 21UKEX1154X
 - IECEX Certificate: IECEX INE 18.0039X
- Certification Type: FELED30 Emergency
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex db eb mb IIC Gb
 - Temperature Class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +60 °C to +70 °C (+140 °F to +158 °F)
 - Ambient Temperature: -20 °C up to +50 °C (-4 °F up to +122 °F)
 - ATEX Certificate: INERIS 18 ATEX 0042X
 - UKEX Certificate: CML 21UKEX1154X
 - IECEX Certificate: IECEX INE 18.0039X
- Standard and Emergency:
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - Photobiological Safety, IEC 62778 and IEC 62471: RG0

ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — ATX™ FELED Series Nonmetallic LED Luminaires



Lumen Output (Efficacy) ①

Model	Fluorescent Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Globe with Internal Diffuser — Standard Mode										
FELED3	3 x 18W	Linear	4000K	≥80	3230	107	5000K	≥80	3345	109
FELED4	2 x 36W	Linear	4000K	>80	3428	78	5000K	>70	4196	95
FELED5	1 x 58W	Linear	4000K	≥80	5222	111	5000K	≥80	5394	115
FELED7	3 x 58W	Linear	4000K	>80	5878	78	5000K	≥80	7181	96
Clear Globe with Internal Diffuser — Emergency Model										
FELED3	3 x 18W	Linear	4000K	≥80	3194 592	89	5000K	≥80	3300 612	92
FELED5	1 x 58W	Linear	4000K	>80	5318 592	99	5000K	≥80	5493 612	103
Clear Globe and Textured Encapsulation Lens — Standard Model										
FELED3	3 x 18W	Linear	4000K	≥80	3735	124	5000K	≥80	3858	128
FELED5	3 x 36W	Linear	4000K	≥80	6028	128	5000K	≥80	6212	133
Clear Globe and Textured Encapsulation Lens — Emergency Model										
FELED3	3 x 18W	Linear	4000K	≥80	3682 683	104	5000K	≥80	3803 705	107
FELED5	3 x 36W	Linear	4000K	≥80	6130 683	115	5000K	≥80	6332 705	119

① All lumen values are typical (tolerance +/- 10%).

② Standard and Loop In/Out cable entries provide 3 entries; 1 at one end and 2 at the other end of the housing.

③ Must order armored cable glands separately; M20 entries are with brass earth continuity plate for armored cable.

④ Cable glands provided in luminaires with unarmored hub entries.

⑤ Clear Globe with textured encapsulation lens (No Diffuser).

⑥ Available for 3K and 5K lumen models only.

⑦ Select to have cutoff switch with standard model. Cutoff Switch included with Emergency option.

ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
FELED3	230 Vac	30	0.14	>0.9	<20%
FELED4	230 Vac	44	0.195	>0.9	<20%
FELED5	230 Vac	47	0.205	>0.9	<20%
FELED7	230 Vac	75	0.333	>0.9	<20%
Emergency Model					
FELED3	230 Vac	35.5	0.17	>0.8	<20%
FELED5	230 Vac	54	0.24	>0.9	<20%

Temperature Codes

Model Type	Gas — T Rating				Dust — Surface T°			
	Ta = +40 °C (+104 °F)	Ta = +45 °C (+113 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +45 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
Standard Model								
FELED3	T5	T4	T4	T4	+52 °C (+126 °F)	+57 °C (+135 °F)	+62 °C (+144 °F)	+67 °C (+153 °F)
FELED4	T4	T4	T4	T4	+60 °C (+140 °F)	+65 °C (+140 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)
FELED5	T5	T5	T4	T4	+52 °C (+126 °F)	+57 °C (+135 °F)	+62 °C (+144 °F)	+67 °C (+153 °F)
FELED7	T4	T4	T4	T4	+60 °C (+140 °F)	+65 °C (+140 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)
Emergency Model								
FELED3 Emergency Model	T4	T4	T4	—	+49 °C (+120 °F)	+54 °C (+129 °F)	+59 °C (+138 °F)	—
FELED5 Emergency Model	T5	T5	T4	—	+50 °C (+122 °F)	+55 °C (+131 °F)	+60 °C (+140 °F)	—

“T” Numbers Represent the Maximum Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450	+201 to +300	+136 to +200	+101 to +135	+86 to +100	+85
	(+547 to +842)	(+394 to +572)	(+277 to +392)	(+214 to +275)	(+187 to +212)	(+185)

① All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

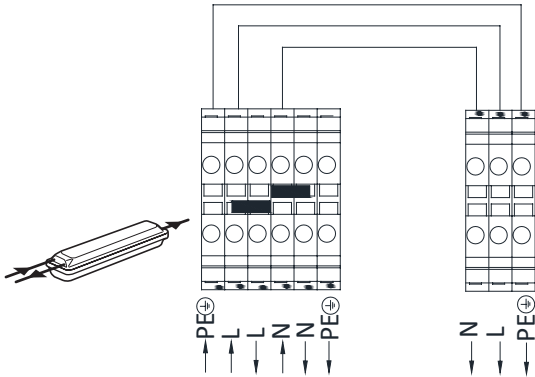
ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Wiring Diagrams

Standard Model

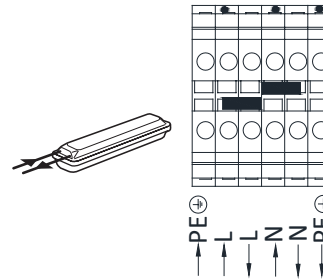
Version : L

Dual Loop In / Out — Through Wiring (Single Phase)
3 Entries, 1 at one end and 2 at the other



Version : S

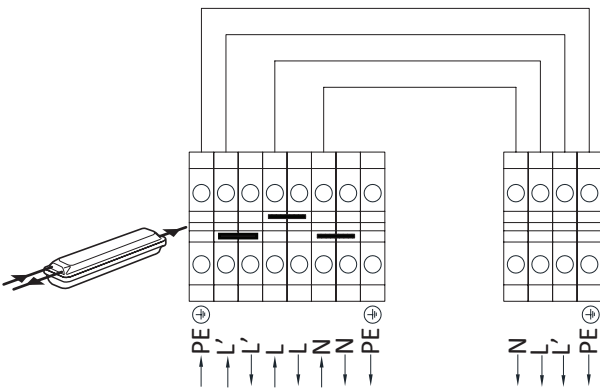
Standard (Single Phase)
3 Entries, 1 at one end and 2 at the other



Emergency Model

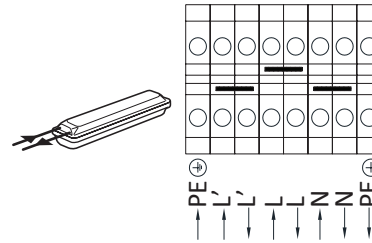
Version : L

Dual Loop In / Out — Through Wiring (Single Phase)
3 Entries, 1 at one end and 2 at the other



Version : S

Standard (Single Phase)
3 Entries, 1 at one end and 2 at the other



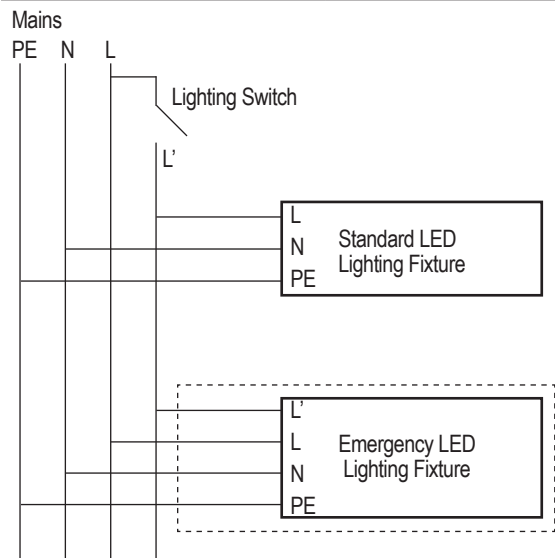
ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup

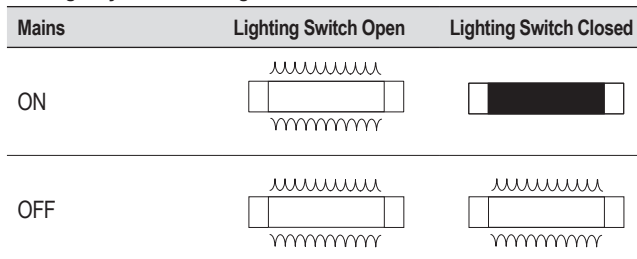
Increased Safety

ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Wiring Diagram



Emergency Function Diagram



LED Signals

Indicator Color	Timing	Function
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicators Light OFF, Light ON	No AC, Emergency mode ON

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

At the completion of functional and full duration tests, and when AC power is present, LED indicators will display status of the emergency luminaire.

Functional Test	Full Duration Test
Starts within 24-48 hours after the initial power up of the luminaire	Starts within 5 to 26 days after the initial power up of the module
Occurs every 14 days after the initial functional test	Occurs once every 364 days after the initial duration test
Lasts for 30 seconds	Lasts for 180 minutes

At the completion of functional and full duration tests, LED indicator will display the status of the emergency luminaire when AC is present

Emergency Light Duration

Lumen Level	Battery Capacity	Duration	Light Output
3K (FELED3)	6 Ah – 6V	180 minutes	5000K CCT: 612 lumens
5K (FELED5)			5000K CCT: 612 lumens



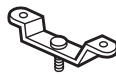



ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup

Increased Safety

ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Replacement Lens			
	0.79 m (2.6 ft) clear polycarbonate external lens with gasket	0.8 (1.76)	Z00650
	1.39 m (4.6 ft) clear polycarbonate external lens with gasket	1.4 (3.09)	Z00651
	0.79 m (2.6 ft) internal diffuser lens	0.08 (0.18)	Z00962
	1.39 m (4.6 ft) internal diffuser lens	1.7 (3.75)	Z00965
Replacement Drivers and Inverter ①			
	FELED3 Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD56
	FELED4 Replacement Driver (1 each)	0.95 (2.09)	APMZ050C135UD80
	FELED5 Replacement Driver (1 each)	0.95 (2.09)	APMZ050L135UD92
	FELED7 Replacement Driver (2 each)	0.95 (2.09)	APMZ050C135UD67
	FELED3 and FELED5 Emergency Model Inverter (BMM) (1 each)	0.65 (1.43)	BMMLLED
Battery Pack ①			
	FELED3 and FELED5 Emergency 6V 6Ah Battery Pack (1 each)	0.73 (1.6)	BPLLED
Fuse Assembly ①			
	FELED3 and FELED5 Replacement Fuse Assembly (1 each)	0.02 (0.04)	APPFUSEZ1
Fixing Brackets for Surface Installation — Set of Two			
	Zinc plated steel	0.39 (0.85)	FEFBZ
Brackets for Surface Mounting — Set of Two			
	316 stainless steel	0.64 (1.4)	FESBS
Hinged Brackets for Adjusting Luminaire			
	Aluminum	0.75 (1.7)	FEHBA
	316 stainless steel	0.57 (1.25)	FEHBS
M8 Ring Bolts — Set of Two			
	Zinc plated steel	0.11 (0.2)	FERBM8Z
Half Clamps Brackets for Pole Mounting — Set of two			
	Diameter for 1-1/4" to 1-1/2" pole: 42 mm to 49 mm (1.65" to 1.93")		
	• Zinc plated steel	0.34 (0.7)	FEHC49Z
	• 316 stainless steel	0.34 (0.7)	FEHC49S
	Diameter for 2" pole: 60 mm (2.3")		
	• Zinc plated steel	0.48 (1.1)	FEHC60Z
	• 316 stainless steel	0.52 (1.2)	FEHC60S
Fall Prevention Kit — Safety chain retains fixture temporarily to ease installation			
	For M25 cable entry	0.76 (1.7)	FESCM25
	For M20 cable entry	0.76 (1.7)	FESCM20

① Replacement parts FELED luminaires purchased prior to 2019 may differ. Contact your local sales representative for more information.

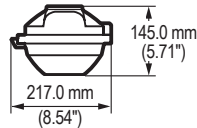
ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

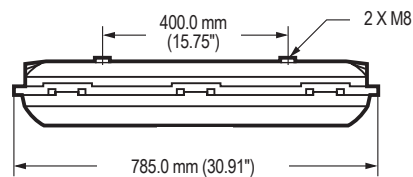
ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Luminaire Dimensions in Millimeters (Inches)

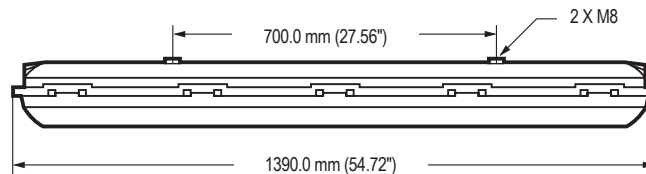
End View



Side View — 0.785 m (2.58 ft)



Side View — 1.39 m (4.56 ft) Version



Luminaire Specifications

Model	Length m (ft)	Weight in kg (lb)
Standard Model		
FELED3	0.785 (2.58)	4.65 (10.25)
FELED4		
FELED5	1.39 (4.56)	8.8 (19.4)
FELED7		
Emergency Model		
FELED3	0.785 (2.58)	6.15 (13.5)
FELED5	1.39 (4.56)	10.3 (22.7)

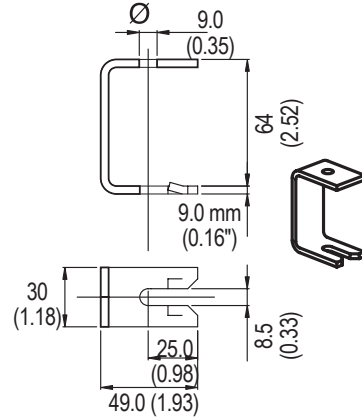
ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

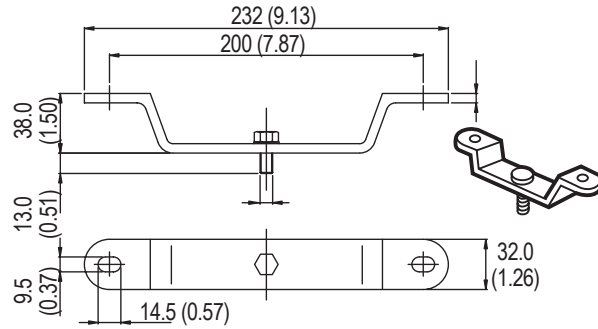
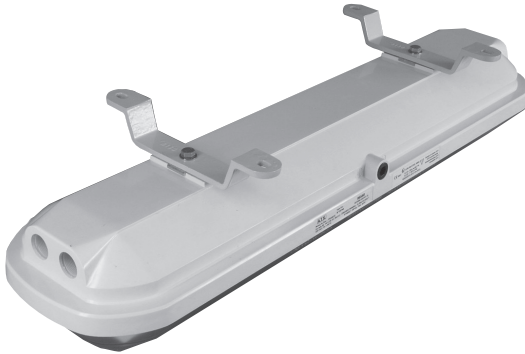
ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Mounting Options Dimensions in Millimeters (Inches)

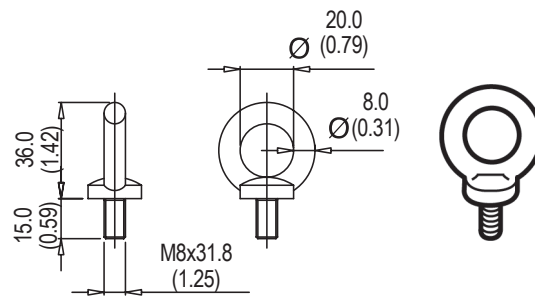
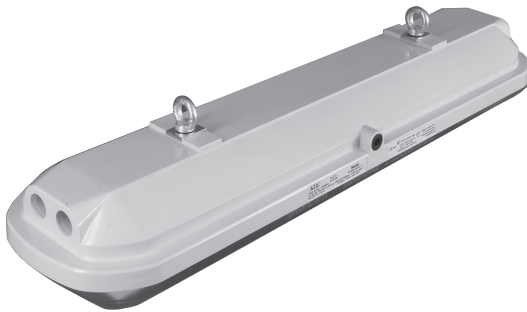
FEBZ: zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



FESBS: 316 stainless steel — Set of two brackets for surface mounting



FERBM8Z: zinc plated steel — Set of two ring bolts



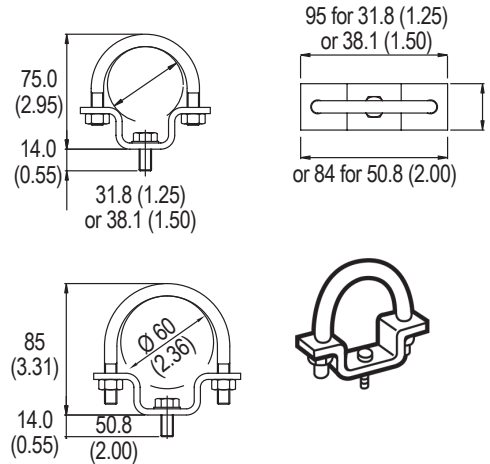
ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

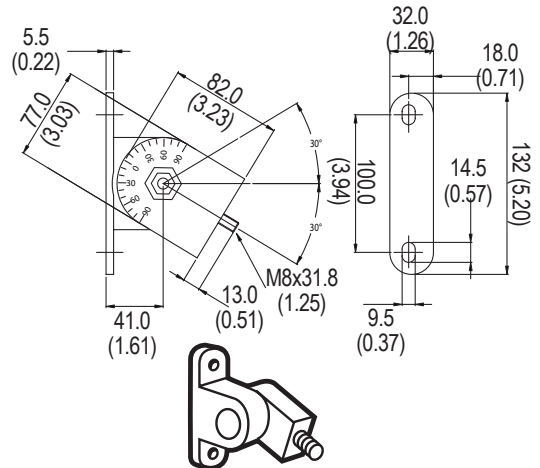
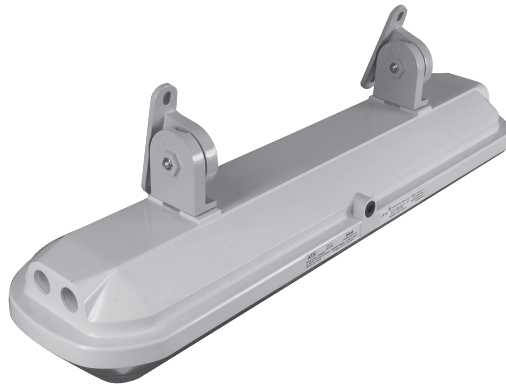
ATEX/UKEX/IECEx: Zones 1 and 2 – 21 and 22

Mounting Options Dimensions in Millimeters (Inches)

FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4" to 1-1/2" pole).
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2" pole).



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.



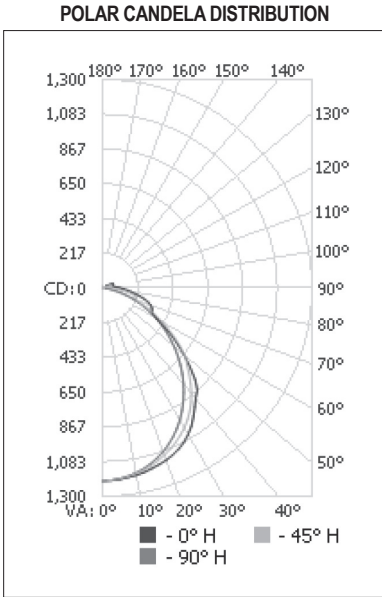
ATX™ FELED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

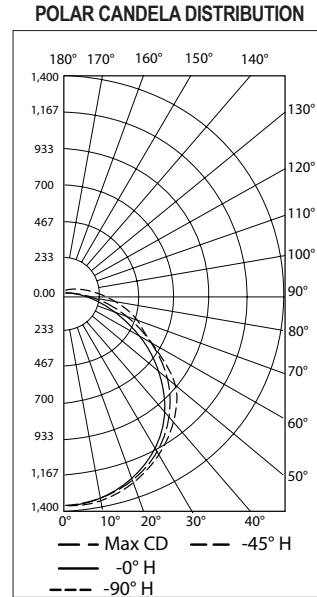
ATEX/UKEX/IECEX: Zones 1 and 2 – 21 and 22

Photometric Data — DATA SHOWN IS ABSOLUTE

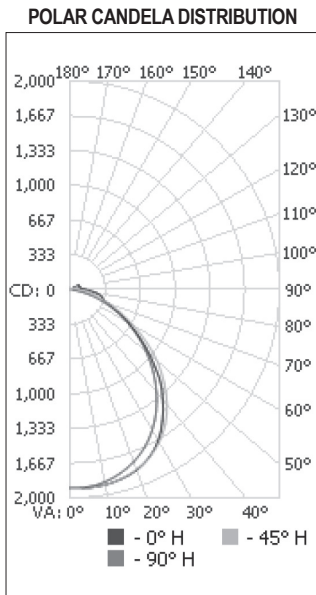
5000K CCT, With Diffuser
REPORT NUMBER: FELED3CBUxxD
Luminaire Lumens: 3,345



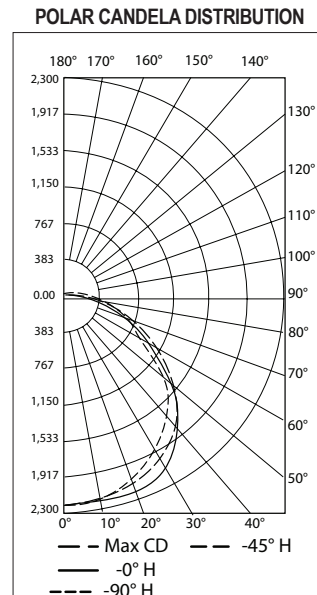
5000K CCT, With Diffuser
REPORT NUMBER: FELED4CBUxxD
Luminaire Lumens: 4,195



5000K CCT, With Diffuser
REPORT NUMBER: FELED5CBUxxD
Luminaire Lumens: 5,394



5000K CCT, With Diffuser
REPORT NUMBER: FELED7CBUxxD
Luminaire Lumens: 7,038



ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Can be installed in hazardous areas designated as Zone 1 and 2, 21 and 22.
- For use in locations where a high degree of corrosion resistance is required.
- For indoor/outdoor use where protection against dirt, water and moisture is necessary.
- Typical applications include:
 - Oil refineries
 - Petrochemical facilities
 - Pulp and paper, mills
 - Painting, sewage and water treatment facilities
 - Warehouses
 - Underground tunnels
 - General manufacturing facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Impact resistant borosilicate glass sealed tube.
- Easy access to LED array through gray painted aluminum threaded entry cap.
- Supplied with O-ring for improved ingress protection.
- Corrosion-resistant gray painted aluminum.
- Supplied with energy efficient electronic driver on a removable gear tray.
- Supplied with external and internal ground/earth connection.
- Fixture supplied with one M20 blanking plug.
- Easy connection to wire and disconnect with plug-in terminal blocks.
- IPX8 compliant at a depth of 10 meters (33 feet), duration 30 min.

Warranty

- 5 year standard warranty.

Standard Materials

- End caps and cover: aluminum.
- Glass tube: tempered borosilicate glass.
- O-ring gasket: nitrile (NBR).
- Internal reflector: aluminium.
- Mounting accessories: several accessories in different material such as zinc plated steel, galvanized steel or 316 stainless steel.

Options

- Diffused polycarbonate lens
- Ta -40 °C (-40 °F) IP66/68 (with gasket)

ATEX/IECEx Certifications and Compliances

- Certification Type: FDLED
 - Gas: Zone 1 and 2:
 - Conforming to ATEX 2014/34/UE: Ⓜ II 2 G
 - Type of Protection: Ex db IIC Gb
 - Temperature Class: T6
 - Dust: Zone 21 and 22:
 - Conforming to ATEX 2014/34/UE: Ⓜ II 2 D
 - Type of Protection: Ex tb IIC Db
 - Surface Temperature: +80 °C (+176 °F)



4725 lm



2400 lm

- Ambient Temperature:
 - Standard Version: -40 °C to +60 °C (-40 °F to +140 °F)
 - Emergency Version: -20 °C to +37 °C (-4 °F to +98 °F)
- CE Declaration of Conformity: 50312
- ATEX Certificate: INERIS 15 ATEX 0042X
- IECEx Certificate: IECEx INE 15.0046X
- UKEX Certificate: CML 21UKEX1156X
- Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IK08 (2400 lm version), IK10 (4725 lm version)
- Internal Volume: > 2 dm³ (122 in³) - 2 liters

Other Certifications

- INMETRO Certificate: BVC17.5710-X

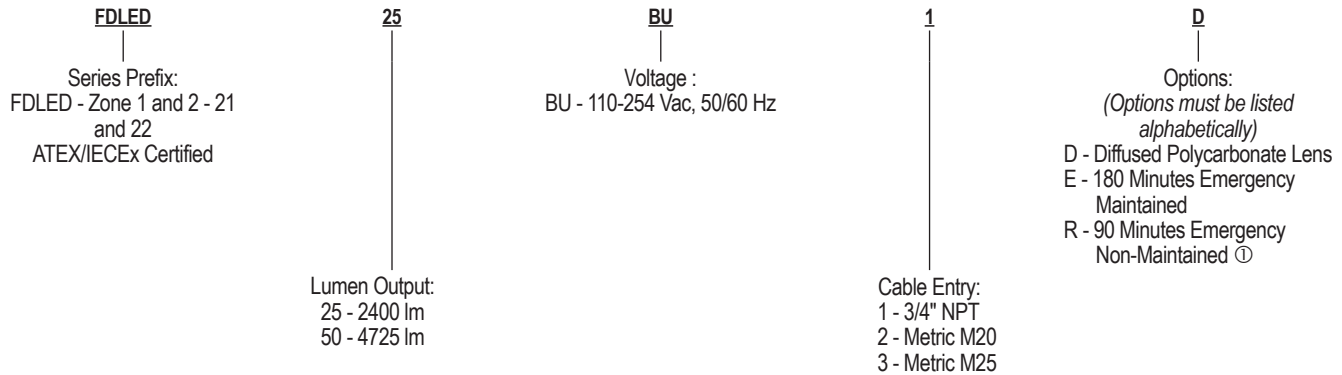
☛ For warranty details go to www.appleton.emerson.com.

ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — FDLED Series Luminaires



Lumen Output (Efficacy) ②

Model	Fluorescent Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)
Standard Model — Clear Lens						
FDLED25BU*	2X18W, 3X18W, 1X36W	Linear	5650K	70	2550	109
FDLED50BU*	2X36W, 1X58W	Linear	5650K	70	5200	121
Standard Model — Diffused Polycarbonate Lens						
FDLED25BU*	2X18W, 3X18W, 1X36W	Linear	5650K	70	2125	91
FDLED50BU*	2X36W, 1X58W	Linear	5650K	70	4350	101

Electrical Specifications ③

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
FDLED25BU*	110 to 254	23	0.21 @110V	>0.9	<20%
FDLED50BU*	110 to 254	46	0.42 @110V	>0.9	<20%
Emergency Model					
FDLED25BU*E	110 to 254	23	0.21 @110V	>0.9	<20%
FDLED50BU*E	110 to 254	46	0.42 @110V	>0.9	<20%

① Available only with FDLED25 without driver and without diffuser.

② All lumen values are typical (tolerance +/- 10%).

③ All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Temperature Codes

Model Type	Gas IIC — T Rating			Dust — Surface T°		
	Ta = +37 °C (+98 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +37 °C (+98 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
Standard Models						
FDLED	T6	T6	T6	+80 °C (+176 °F)	+80 °C (+176 °F)	+80 °C (+176 °F)
FDLED*D	T6	T6	T6	+85 °C (+185 °F)	+85 °C (+185 °F)	+85 °C (+185 °F)
Emergency Models						
FDLED	T6	T6	T6	+80 °C (+176 °F)	+80 °C (+176 °F)	+80 °C (+176 °F)
FDLED*D	T6	T6	T6	+85 °C (+185 °F)	+85 °C (+185 °F)	+85 °C (+185 °F)

“T” Numbers Represent the Maximum Temperature

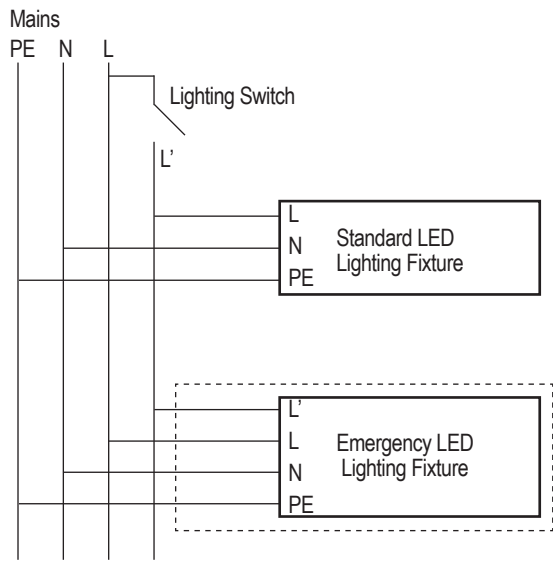
“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

ATX™ FDLED Series Luminaires

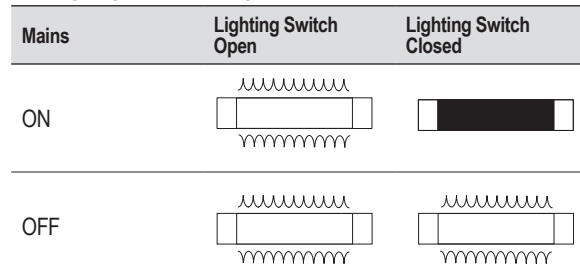
Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Wiring Diagram



Emergency Function Diagram



LED Indicator Signals

Color	Timing	Function
Green	LED Blinking	Mains voltage available - Battery Charging
	LED Continuous	Mains voltage available - Battery connected and loaded
Green and Red	LED Blinking Alternately (2s)	Mains voltage available - Battery in repair mode
	LED Blinking	Mains voltage available - No battery connected or defective
Red	LED Continuous	Mains voltage NOT available - Light unit powered by batteries (emergency mode)
	LED Flashing	Mains voltage NOT available - Battery low (emergency mode completed)
	LED Blinking Alternately	Mains voltage available - Last automatic or manual operational check has been unsuccessful
Yellow (Orange) and another color	LED Blinking Alternately	Mains voltage available - Last automatic or manual operational check has been unsuccessful
None (Off)	No Light Emitted	Mains voltage NOT available - Battery completely empty

Self-Test: In 3 month intervals batteries are automatically discharged and recharged once.


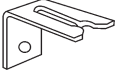
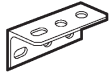

Emergency Light Duration

Version	Lumen Model	Battery Capacity	Duration	Light Output
Clear Lens				
Emergency Maintained	2400 lm	7 Ah – 6 V	180 minutes	800 lm
	4725 lm			1530 lm
Emergency Non-Maintained	750 lm	7 Ah – 6 V	90 Minutes	800 lm
Diffused Polycarbonate Lens				
Emergency Maintained	2400 lm	7 Ah – 6 V	180 minutes	680 lm
	4725 lm			1290 lm

ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

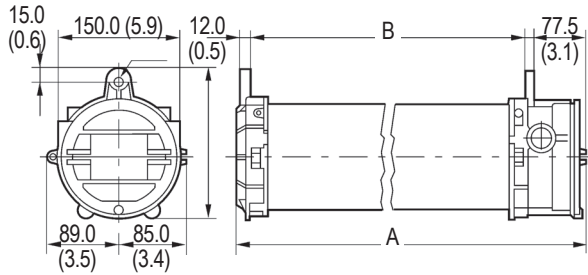
Accessories and Replacement Parts				
	Description	Weight in kg (lb)	Catalog Number	
Replacement Drivers and Inverter				
	FDLED Replacement Driver	0.50 (1.10)	FDLEDRV	
	FDLED Emergency Model Inverter	0.40 (0.88)	FDLEDINV	
Battery Pack				
	FDLED Emergency Battery Pack	1.10 (2.43)	FDLEDBP	
Protective Guard — Zinc Plated Steel				
	Model 0.4 (for 2400 lm)	0.42 (0.92)	FDPG5Z	
	Model 0.6 (for 4725 lm)	0.69 (1.52)	FDPG2Z	
Fixing Brackets for Ease of Surface Installation — Set of Two				
	Zinc plated steel	0.2 (0.44)	FDFBZ	
	316 stainless steel	0.27(0.60)	FDFBS	
Surface Mounting Brackets — Set of Two				
	Zinc plated steel	0.54 (1.20)	FDSBZ	
	316 stainless steel	0.45 (1.00)	FDSBS	
Half Clamp Brackets for Pole Mounting — Set of Two				
	Diameter for 1-1/4" to 1-1/2" pole: 42 mm to 49 mm (1.65" to 1.93")			
	• Zinc plated steel	0.34 (0.7)	FDHC49Z	
	• 316 stainless steel	0.34 (0.7)	FDHC49S	
	Diameter for 2" pole: 60 mm (2.3")			
	• Zinc plated steel	0.48 (1.1)	FDHC60Z	
	• 316 stainless steel	0.52 (1.2)	FDHC60S	
Fall Prevention Kit				
	1.20 meter (3.93 feet) stainless steel chain	0.15 (0.33)	FDSCS	

ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)



Catalog Number	Dimension A in mm (in)	Dimension B in mm (in)	Weight in kg (lb)	Volume in dm ³ (in ³)
FDLED25BU2	470 (18.50)	375 (14.76)	5.4 (11.9)	37.1 (2264.0)
FDLED50BU2	745 (29.33)	650 (25.59)	7.4 (16.3)	58.0 (3539.4)
FDLED25BU2DE	470 (18.50)	375 (14.76)	6.5 (14.3)	37.1 (2264.0)
FDLED50BU2DE	745 (29.33)	650 (25.59)	9.0 (19.8)	58.0 (3539.4)

ATX™ FDLED Series Luminaires

Standard or with Emergency Battery Backup
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Photometric Data — DATA SHOWN IS ABSOLUTE

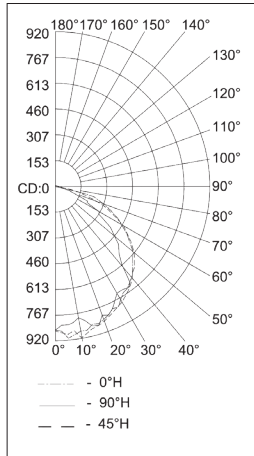
Standard Mode

5000K CCT, Clear Lens

REPORT NUMBER:
FDLED25BU2

Luminaire Lumens: 2556

Polar Candela Distribution

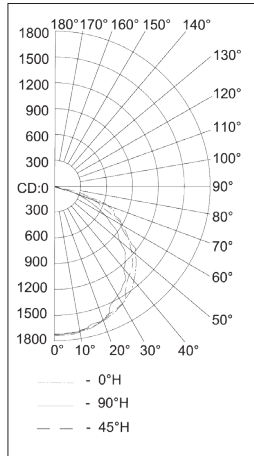


5000K CCT, Clear Lens

REPORT NUMBER:
FDLED50BU2

Luminaire Lumens: 5213

Polar Candela Distribution

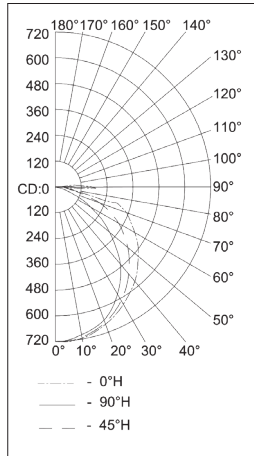


5000K CCT, Diffused Lens

REPORT NUMBER:
FDLED25BU2D

Luminaire Lumens: 2127

Polar Candela Distribution

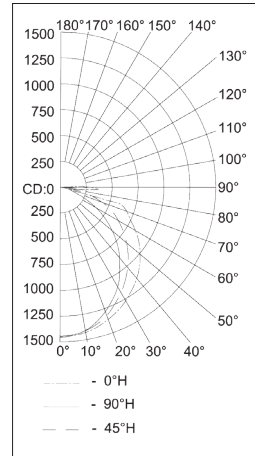


5000K CCT, Diffused Lens

REPORT NUMBER:
FDLED50BU2D

Luminaire Lumens: 4348

Polar Candela Distribution



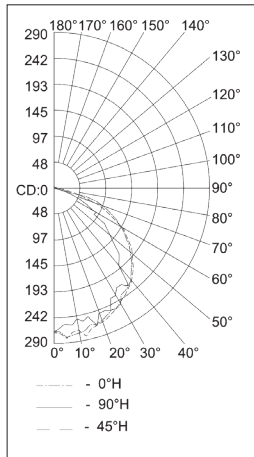
Emergency Mode

5000K CCT, Clear Lens

REPORT NUMBER:
FDLED25BU2E

Luminaire Lumens: 797

Polar Candela Distribution

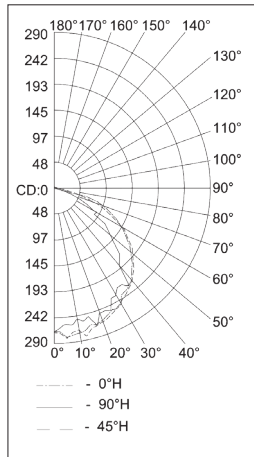


5000K CCT, Clear Lens

REPORT NUMBER:
FDLED50BU2E

Luminaire Lumens: 1533

Polar Candela Distribution

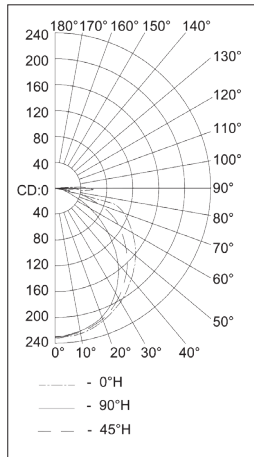


5000K CCT, Diffused Lens

REPORT NUMBER:
FDLED25BU2DE

Luminaire Lumens: 680

Polar Candela Distribution

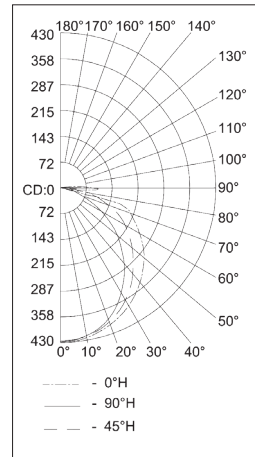


5000K CCT, Diffused Lens

REPORT NUMBER:
FDLED50BU2DE

Luminaire Lumens: 1289

Polar Candela Distribution

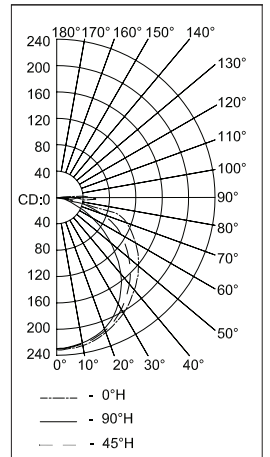


5000K CCT, Clear Lens

REPORT NUMBER:
FDLED25BU2R

Luminaire Lumens: 681

Polar Candela Distribution



ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

Applications

- For use in locations where:
 - Hazardous areas are designated as Zone 2, 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against dirt, water and moisture is necessary
- Typical applications include:
 - Oil refineries
 - Petrochemical facilities
 - Food processing plants
 - Waste and water treatment plants
 - Underground tunnels
 - General manufacturing facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- Available in 5000K or 4000K Color Temperatures.
- Meets photobiological requirement for Risk Group 0 (RG0).
- Easy to retrofit in same mounting footprint as the Appleton FN Series nonmetallic fluorescent luminaires.
- Full range of lumen outputs, with light distribution equivalent to the Appleton FN Series fluorescent luminaires.
- Corrosion-resistant fiberglass reinforced polyester body and hinged polycarbonate lens.
- High impact resistance housing (20 Joules – IK10) from -30 °C to +55 °C (-22 °F to +131 °F) ambient temperature and wind profile for use in extreme offshore and onshore environments.
- Reported L70 > 100,000 hours at +30 °C (+86 °F).
- Lightweight design, hinged cover with captive screws, and terminal block wiring for easy installation and maintenance.
- Contemporary, low profile design suitable for tight spaces.
- Standard screw-type terminal block can accept 1.5 to 6 mm² wire.
- Field replaceable LED driver.
- Industry-leading thermal management for safe, reliable operation over wide temperature range.
- Universal, high efficiency, drivers cover voltage requirements for 120-277 Vac, 125-300 Vdc, 50/60 Hz +/- 10%.
- High power factor electronic driver (>0.95).
- Standard 6 kV surge suppression.
- M20 plug or M25 plug provided.
- Latch assembly and elastomer gasket seals against water and dust ingress, IP66.
- Easily accessed for maintenance using Allen key or straight blade screwdriver.
- Central opening with unique patented release system to prevent damage.
- Can be horizontally or vertically mounted.
- Available in 3 hour emergency version, including built-in monthly self-test. Test results through multi-colored LED.
- Positive safety switch disconnects power to LED's and driver to allow maintenance in hazardous locations (emergency version).
- Ex e battery with plug-in connector.

Warranty

- 5 year standard warranty.

① Available for 3K and 5K lumen models only.

⊕ For warranty details go to www.appleton.emerson.com.



FNLED3 | FNLED4



FNLED5 | FNLED7

Options

- 3 Hours Emergency/Battery Back-Up available ①;
 - Add suffix **-E** to the end of the catalog number.
 - Example: FNLED5CBUSADE, FNLED3CBUSADE

Standard Materials

- Housing: fiberglass reinforced polyester
- Lens: polycarbonate
- Diffuser: polycarbonate
- Gasket: elastomer
- Internal reflector: highly reflective white polycarbonate
- Mounting accessories available in different materials such as gray painted aluminum, zinc plated steel, galvanized steel or 316 stainless steel

ATEX/IECEx Certifications and Compliances

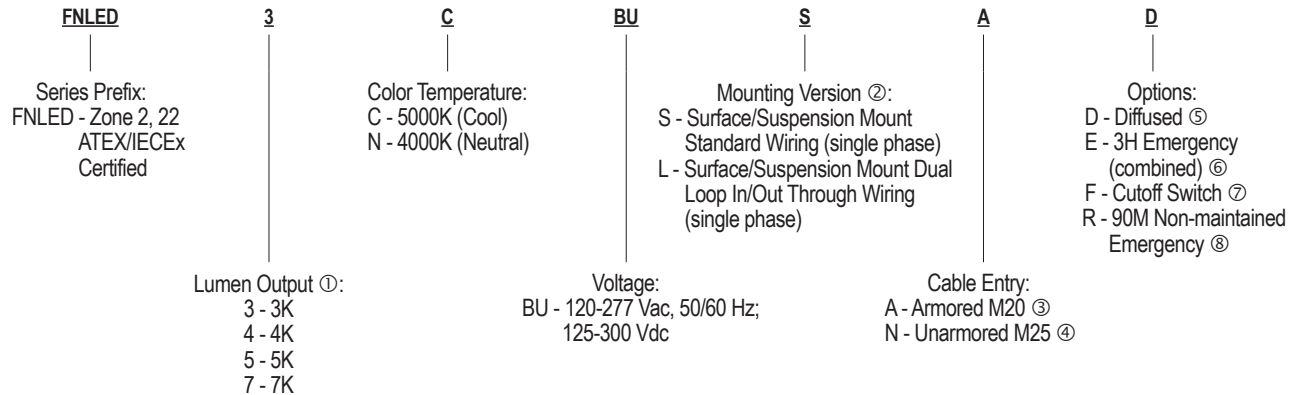
- Certification Type: FNLED
 - Gas: Zone 2
 - Conforming to ATEX 2014/34/EU: II 3 G
 - Type of Protection: Ex ec IIC Gc
 - Temperature Class: T5 to T3
 - Dust: Zone 22
 - Conforming to ATEX 2014/34/EU: II 3 D
 - Type of Protection: Ex tc IIIC Dc
 - Surface Temperature: +60 °C to +80 °C (+140 °F to +176 °F)
- Ambient Temperature:
 - Standard: -30 °C up to +55 °C (-22 °F up to +131 °F)
 - Emergency: -20 °C up to +50 °C (-4 °F up to +122 °F)
- ATEX Certificate: INERIS 19 ATEX 3005X
- IECEx Certificate: IECEx INE 19.0006X
- UKEX Certificates: CML 21UKEX11410X and CML 21UKEX31412X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Photobiological Safety, IEC 62778 and IEC 62471: RG0 at 0.25 m mounting height

ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

Order Using Catalog Numbering Guide — ATX™ FNLED Series Nonmetallic LED Luminaires



Lumen Output (Efficacy) — All Models ①

Model	HID Equivalency (Max. Wattage)	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Standard Model										
FNLED3	3 x 18W	Linear	4000K	>80	3,200	107	5000K	>80	3,300	110
FNLED4	2 x 36W	Linear	4000K	>80	4,200	105	5000K	>80	4,300	108
FNLED5	1 x 58W	Linear	4000K	>80	5,290	106	5000K	>80	5,100	119
FNLED7	3 x 58W	Linear	4000K	>80	7,000	106	5000K	>80	7,000	106
Emergency Model										
FNLED3	3 x 18W	Linear	4000K	>80	3,200 550	107	5000K	>80	3,300 650	110
FNLED5	2 x 58W	Linear	4000K	>80	5,000 550	116	5000K	>80	5,100 650	119

① All lumen values are typical (tolerance +/- 10%).

② Standard and Loop In/Out cable entries provide 3 entries; 1 at one and 2 at the other end of the housing.

③ Must order armored cable glands separately. M20 entries are with brass earth continuity plate for armored cable.

④ Cable glands provided in luminaires with unarmored hub entries.

⑤ Diffuser required for direct.

⑥ Available for 3K and 5K lumen models only.

⑦ Select to have cutoff switch with standard model. Cutoff Switch included with Emergency option.

⑧ Non-maintained Emergency option includes 90 minutes of battery backup. To include cutoff switch, please order with -F option also. Ex: FNLED5CBUSAFR.

ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Standard Model					
FNLED3	230 Vac	30	0.132	>0.9	<20%
FNLED4	230 Vac	40	0.173	>0.9	<20%
FNLED5	230 Vac	43	0.193	>0.9	<20%
FNLED7	230 Vac	66	0.296	>0.9	<20%
Emergency Model					
FNLED3	230 Vac	33	0.180	>0.9	<20%
FNLED5	230 Vac	50	0.270	>0.9	<20%

Temperature Codes

Model Type	Gas — T Rating			Dust — Surface T°		
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
Standard Model						
FNLED3	T4	T4	T4	+60 °C (+140 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)
FNLED4	T4	T3	T3	+60 °C (+140 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)
	T4	T4	T3			
FNLED5	T5	T4	T4	+60 °C (+140 °F)	+70 °C (+158 °F)	+75 °C (+167 °F)
				+65 °C (+149 °F)	+75 °C (+167 °F)	+80 °C (+176 °F)
FNLED7	T4	T4	T4	+65 °C (+149 °F)	+75 °C (+167 °F)	+80 °C (+176 °F)
Emergency Model						
FNLED3	T4	T4	—	+60 °C (+140 °F)	+70 °C (+158 °F)	—
FNLED5	T4	T4	—	+60 °C (+140 °F)	+70 °C (+158 °F)	—

“T” Numbers Represent the Maximum Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450	+201 to +300	+136 to +200	+101 to +135	+86 to +100	+85
	(+547 to +842)	(+394 to +572)	(+277 to +392)	(+214 to +275)	(+187 to +212)	(+185)

① All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

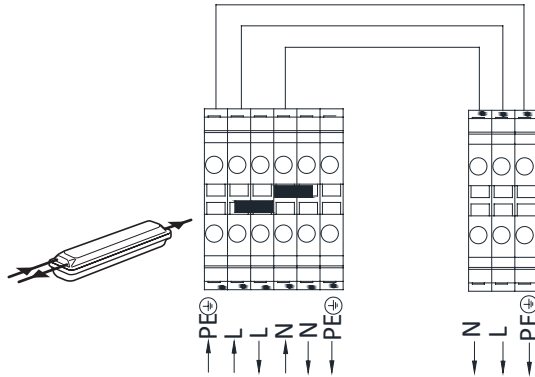
ATEX/IECEx: Zones 2–21 and 22

Wiring Diagrams

Standard Model

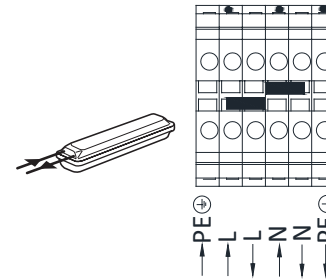
Version : L

Dual Loop In / Out — Through Wiring (Single Phase)
3 Entries, 1 at one end and 2 at the other



Version : S

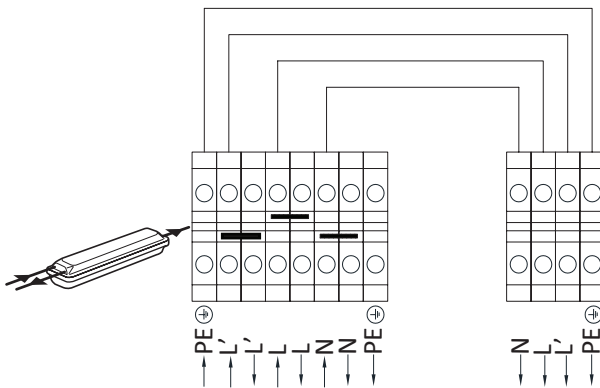
Standard (Single Phase)
3 Entries, 1 at one end and 2 at the other



Emergency Model

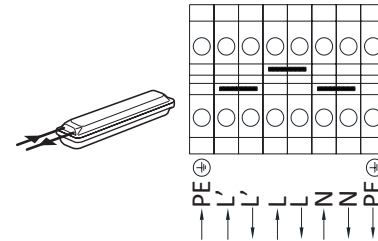
Version : L

Dual Loop In / Out — Through Wiring (Single Phase)
3 Entries, 1 at one end and 2 at the other



Version : S

Standard (Single Phase)
3 Entries, 1 at one end and 2 at the other

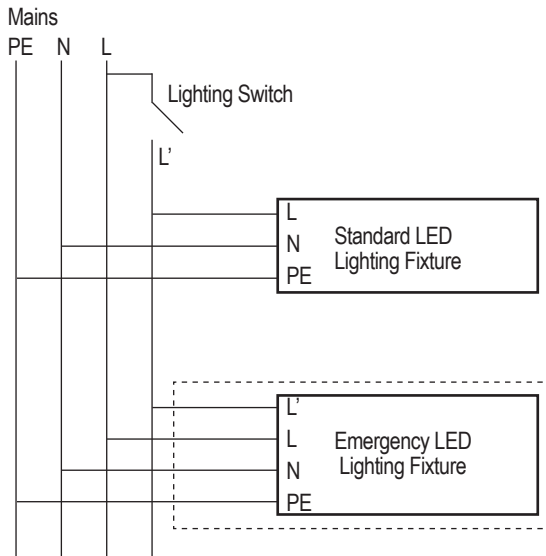


ATX™ FNLED Series Nonmetallic LED Luminaires

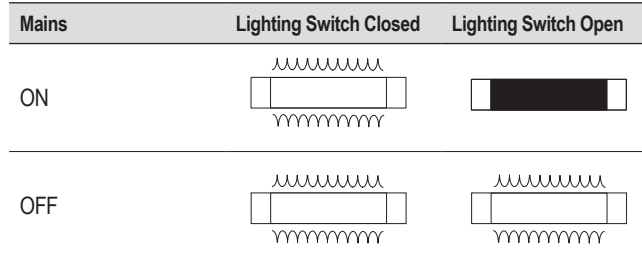
Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

Wiring Diagram



Emergency Function Diagram



LED Signals

Color	Timing	Function
Green	1 sec ON: 1 sec OFF	Normal charging ok, Battery not yet fully charged, No fault detected, Testing ok
Green	0.25 sec ON: 0.25 sec OFF	Functional / Duration Self-Test on-going
Green	Steady ON	Charging ok, Battery fully charged, No fault detected, Testing ok
Red	1 sec ON: 1 sec OFF	Fault condition. Installation issue. Battery is reverse, not connected or shorted. Functional test failure, full duration test failure
LED Indicators OFF, LED Array ON	LED Indicator (Red and Green) OFF	No AC, Emergency mode ON

Automatic Testing System (ATS) — Emergency Battery Backup Model — Functionality

Functional Test	Full Duration Test
Starts within 24-48 hours after the initial power up of the luminaire	Starts within 5 to 26 days after the initial power up of the module
Occurs every 14 days after the initial functional test	Occurs once every 364 days after the initial duration test
Lasts for 30 seconds	Lasts for 180 minutes
At the completion of functional and full duration tests, and when AC power is present, LED indicators will display status of the emergency luminaire.	

Emergency Light Duration



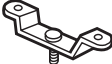



Lumen Level	Battery Capacity	Duration	Light Output
3K (FNLED3)	6 Ah – 6V	180 minutes	5000K CCT: 650 lumens
5K (FNLED5)			4000K CCT: 550 lumens

ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Replacement Lens			
	0.79 m (2.6 ft) clear polycarbonate external lens with gasket	0.8 (1.76)	Z00650
	1.39 m (4.6 ft) clear polycarbonate external lens with gasket	1.4 (3.09)	Z00651
	0.61 m (2 ft), 1 pc needed and 1.22 m (4 ft), 2 pc needed	0.07 (0.154)	Z00966
Replacement Drivers and Inverter ①			
	FNLED3 Replacement Driver (1 each)	0.95 (2.09)	APMS050C135UD52
	FNLED4 Replacement Driver (1 each)	0.95 (2.09)	APMS050C135UD70
	FNLED5 Replacement Driver (1 each)	0.95 (2.09)	APMS050C135UD84
	FNLED7 Replacement Driver (1 each)	0.95 (2.09)	APMS050C135UD60
	FNLED3 and FNLED5 Emergency Model Inverter (BMM) (1 each)	0.65 (1.43)	BMMLED
Battery Pack and BMM ①			
	FNLED3 and FNLED5 Emergency 6V 6Ah Battery Pack (1 each)	0.73 (1.6)	BPLLED
Fuse Assembly ①			
	FNLED3 and FNLED5 Replacement Fuse Assembly (1 each)	N/A	APPFUSEZ1
Fixing Brackets for Surface Installation — Set of Two			
	Zinc plated steel	0.39 (0.85)	FEFBZ
Brackets for Surface Mounting — Set of Two			
	316 stainless steel	0.64 (1.4)	FESBS
Hinged Brackets for Adjusting Luminaire			
	Aluminum	0.75 (1.7)	FEHBA
	316 stainless steel	0.57 (1.25)	FEHBS
M8 Ring Bolts — Set of Two			
	Zinc plated steel	0.11 (0.2)	FERBM8Z
Half Clamps Brackets for Pole Mounting — Set of two			
	Diameter for 1-1/4 to 1-1/2" pole: 42 mm to 49 mm (1.65 in to 1.93 in)		
	• Zinc plated steel	0.34 (0.7)	FEHC49Z
	• 316 stainless steel	0.34 (0.7)	FEHC49S
	Diameter for 2" pole: 60 mm (2.36 in)		
	• Zinc plated steel	0.48 (1.1)	FEHC60Z
	• 316 stainless steel	0.52 (1.2)	FEHC60S
Fall Prevention Kit — Safety chain retains fixture temporarily to ease installation			
	For M25 cable entry	0.76 (1.7)	FESCM25
	For M20 cable entry	0.76 (1.7)	FESCM20

① Replacement parts FNLED luminaires purchased prior to 2019 may differ. Contact your local sales representative for more information.

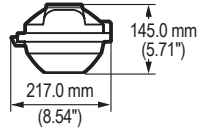
ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

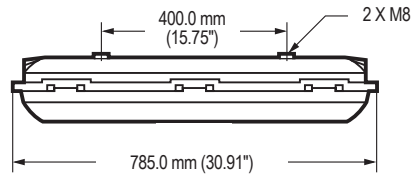
ATEX/IECEx: Zones 2–21 and 22

Luminaire Dimensions in Millimeters (Inches)

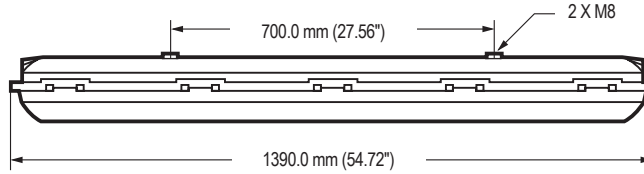
End View



Side View — 0.785 m (2.58 ft)



Side View — 1.39 m (4.56 ft) Version



Luminaire Specifications

Model	Length m (ft)	Weight in kg (lb)
Standard Model		
FNLED3	0.79 (2.58)	5.00 (11.00)
FNLED4	0.79 (2.58)	5.00 (11.00)
FNLED5	1.39 (4.56)	8.00 (17.50)
FNLED7	1.39 (4.56)	8.75 (19.00)
Emergency Model		
FNLED3	0.79 (2.58)	6.00 (13.00)
FNLED5	1.39 (4.56)	10.00 (22.00)

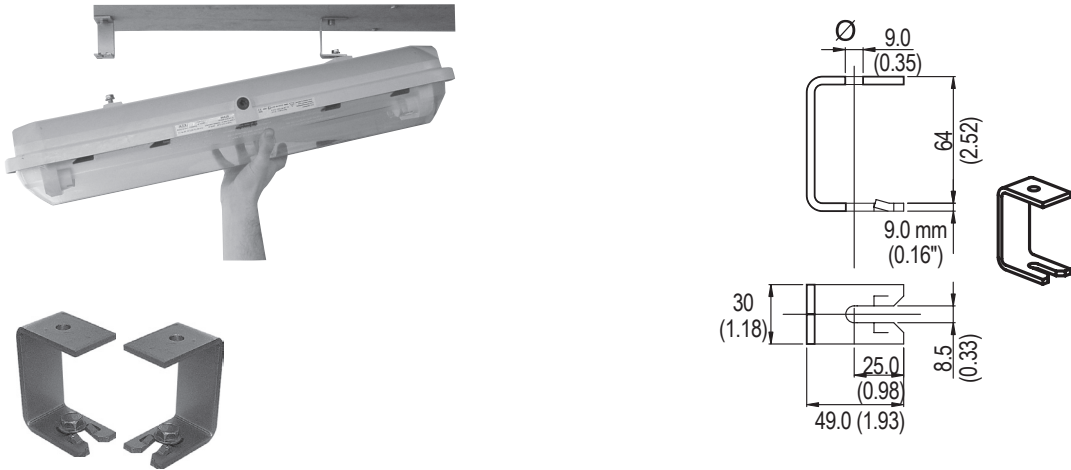
ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

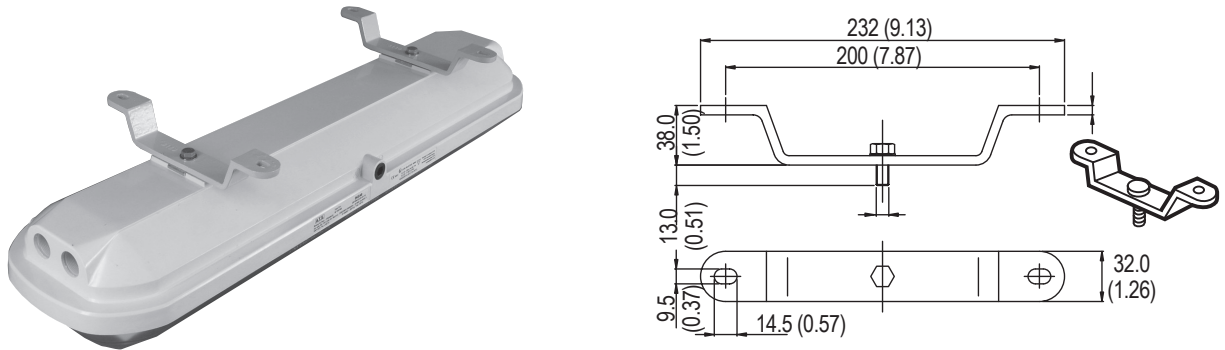
ATEX/IECEx: Zones 2–21 and 22

Mounting Options Dimensions in Millimeters (Inches)

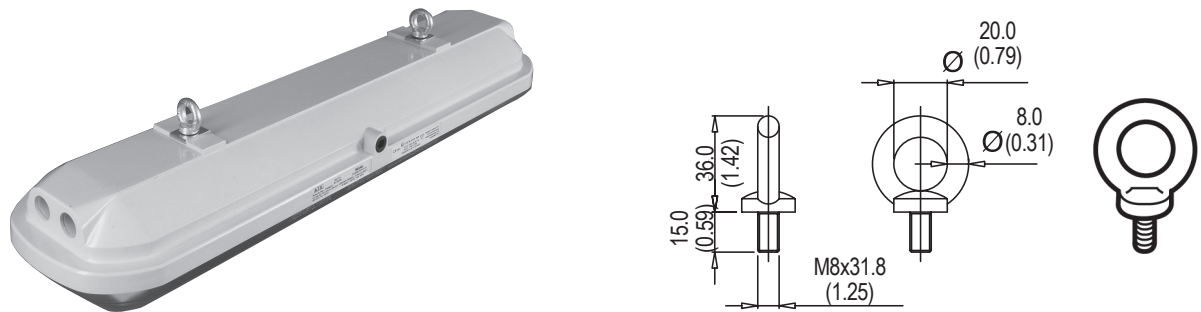
FEBZ: zinc plated steel — Set of two quick fixing brackets for ease of surface mounting



FESBS: 316 stainless steel — Set of two brackets for surface mounting



FERBM8Z: zinc plated steel — Set of two ring bolts



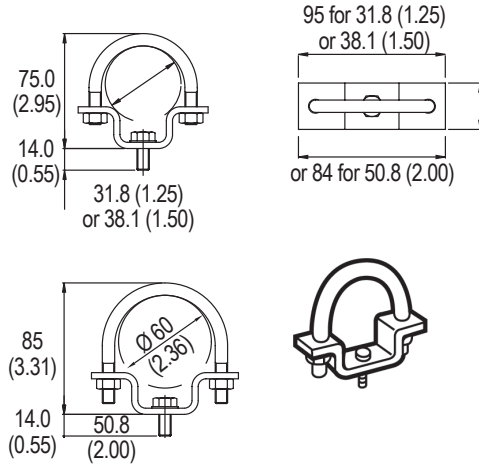
ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

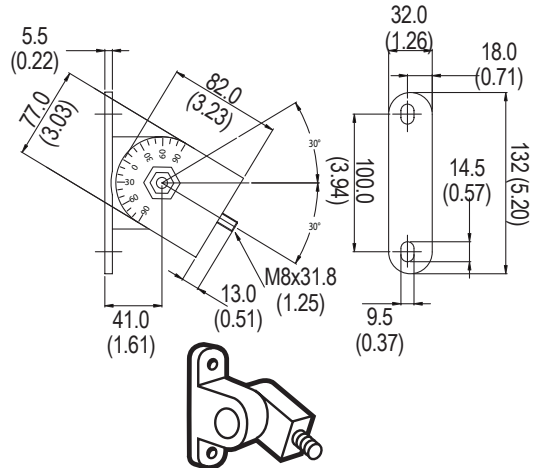
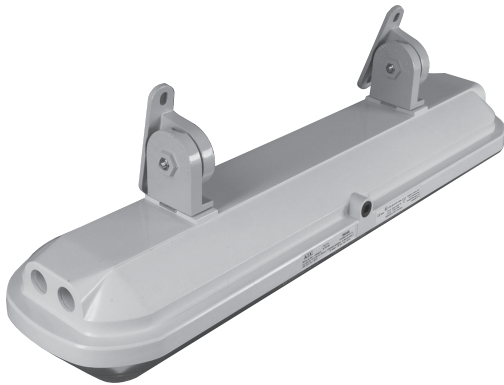
ATEX/IECEx: Zones 2–21 and 22

Mounting Options Dimensions in Millimeters (Inches)

FEHC49Z: zinc plated steel or FEHC49S: 316 stainless steel — Set of two clamps for pole diameter 42 mm to 49 mm (for 1-1/4" to 1-1/2" pole).
FEHC60Z: zinc plated steel or FEHC60S: 316 stainless steel — Set of two clamps for pole diameter 60 mm (for 2" pole).



FEHBA: aluminum or FEHBS: 316 stainless steel — Set of two hinged brackets for adjusting luminaire.



ATX™ FNLED Series Nonmetallic LED Luminaires

Standard or with Emergency Battery Backup
Increased Safety

ATEX/IECEx: Zones 2–21 and 22

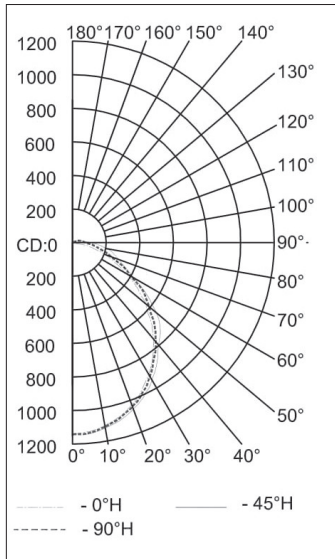
Photometric Data — DATA SHOWN IS ABSOLUTE

5000K CCT, With Diffuser

REPORT NUMBER: **FNLED3CBUxxD**

Luminaire Lumens: 3,333

POLAR CANDELA DISTRIBUTION

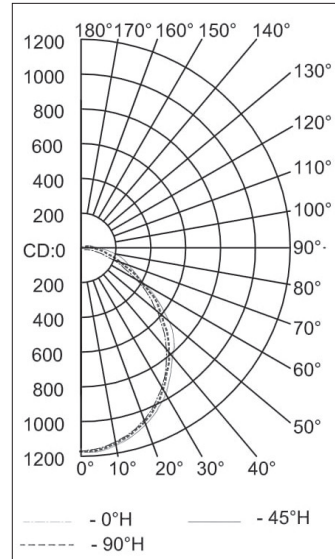


5000K CCT, With Diffuser

REPORT NUMBER: **FNLED4CBUxxD**

Luminaire Lumens: 4,294

POLAR CANDELA DISTRIBUTION

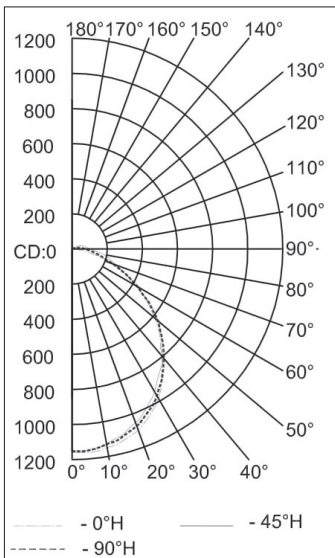


5000K CCT, With Diffuser

REPORT NUMBER: **FNLED5CBUxxD**

Luminaire Lumens: 5,094

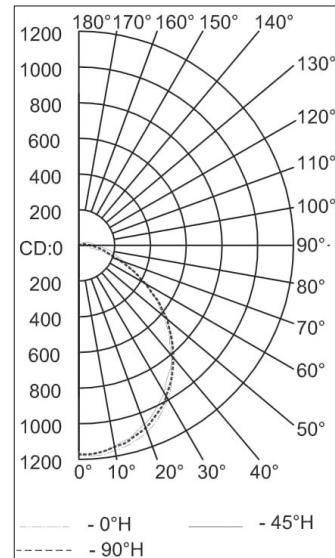
POLAR CANDELA DISTRIBUTION



5000K CCT, With Diffuser

REPORT NUMBER: **FNLED7CBUxxD**

Luminaire Lumens: 7,038



Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
ATEX/IECEX: Zones 2 – 21 and 22
Markings: CE | UKCA | UKEX
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Applications

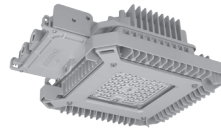
- Enclosed and gasketed fixtures suitable for use in a wide range of industrial, chemical processing and other areas where flammable gases and vapors are present, for example:
 - Oil and Gas Refineries
 - Petrochemical Plants
 - Foundries
 - Drilling Rigs
 - Pulp and Paper Mills
 - Food and Beverage Processing Facilities
 - Loading Docks
 - Power Plants
 - Water and Wastewater Treatment Facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem.
- IP66/IP67, Type 4X, marine and wet locations. IP66 for IECEx/ATEX.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
 - 40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range.
 - 40 °C to +55 °C (-40 °F to +131 °F) for high lumen BHL(P)L3 output.
 - 55 °C (-67 °F) Cold Start option available for BU voltages only.
 - See Catalog Numbering Guide for more details.
- Globally rated luminaires with all applicable certification labels for NEC/CEC and ATEX/IECEX environments. See Certifications and Compliances for details.

Features

- Six lumen outputs provide up to 38,000 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
9,500	175-250W	BLLL6/BLLPL6
15,000	250-400W	BLLL7/BLLPL7
19,500	400-750W	BLLL8/BLLPL8
24,000	1000W	BHLL1/BHLPL1
30,000	1000-1500W	BHLL2/BHLPL2
38,000	1500W	BHLL3/BHLPL3

- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire (Non Quick Mount version only).
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapter available. (Three close-up plugs provided when quick mount pendant system is ordered).
- Unique quick mount pendant system allows for easy prewiring without supporting the High Bay in place. Quick mount adapter hood includes one 3/4" NPT entry.
- Alternate mounting system allows for "Y" cable mount and easy wiring via a separate field wiring compartment with a screw terminal block.
- Floodlight mounting achieved by using Areamaster Generation 2 LED yoke bracket.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, 3000K (80 CRI) warm white, 1800K (70 CRI), or Amber (56 CRI).



9,500, 15,000, 19,500 Lumens



24,000, 30,000, 38,000 Lumens

L70 Ratings:

+25 °C (+77 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 135,000 hours

- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- 0-10 Vdc Dimming standard for all Non-Quick Mount versions.
- Captive fasteners secure one-piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.

Warranty ②

- 10 year standard warranty.

Options

- Improved safety cable design with multiple retention points, purchase separately.
- Guard and visor available, *purchase separately*.
- Y mount cable assembly, *purchase separately*.
- Drain assembly, *purchase separately*.
- 10 kV/5 kA Surge Protection
- For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies.

Controls

- Dimming:
 - Luminaire has a two-wire, 0-10 Vdc variable dimming input port for controlling the light output - for BU voltages only.
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

[‡] mb applicable for select Cold Temperature configurations only.

① Nominal lumen value for 5000K, Medium Beam, with clear glass. Detailed lumen information provided in tables.

② For warranty details go to www.appleton.emerson.com.

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
ATEX/IECEX: Zones 2 – 21 and 22
Markings: CE | UKCA | UKEX
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Standard Materials

- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided (Non Quick Mount version)
- Guard and safety cable: stainless steel

Standard Finishes

- Housing, lens cover, quick mount body and hood; baked gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standards: UL 844; UL 1598; UL1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0; CSA C22.2 No. 137
- cETLus: 104364566CHI-001, 104364566CHI-002, 104364582DAL-001
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency (BLLL and BHLL models only)

ATEX/IECEX Certifications and Compliances

- Certification Type: Baymaster LED and High Lumen LED
 - Gas: Zone 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 3G
 - Type of Protection: Ex ec mb⁺ IIC Gc
 - Temperature Class: AMLG – T5 to T3; AMLH – T4 to T3
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)
 - Dust: Zone 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 3D
 - Type of Protection: Ex tc IIIC Dc
 - Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)
- Ambient Temperature: -40°C up to +65°C (-40°F up to +149 °F). -40°C to +55 °C (-40°F to +131°F) for high lumen BHLL3 output
- ATEX Certificate: ITS18ATEX104171, ITS-I 23 ATEX 29460
- IECEX Certificate: IECEX ITS 18.0049
- Index of Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

UKEX Certifications

- ITS22UKEX0683
- ITS22UKEX0684

CE and UKCA Marking

- ATEX: EN 60079-0, EN 60079-7, EN 60079-31
- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

ABS Certifications

- BLL: 23-2374471-PDA
- BHL: 23-2368591-PDA

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Industrial Baymaster and High Lumen LED Series Luminaires

‡ mb applicable for select Cold Temperature configurations only.

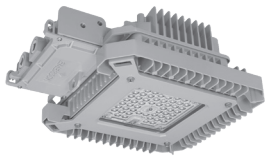
Baymaster™ and High Lumen LED Series Luminaires

High Bay

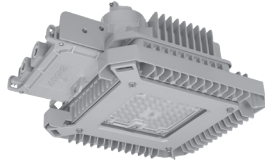
Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

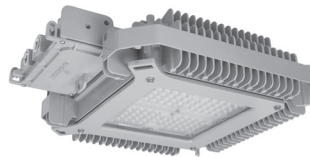
Illustrated Features



BLL with clear lens



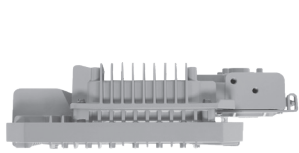
BLLP with frosted lens



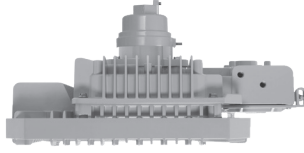
BHL with frosted lens



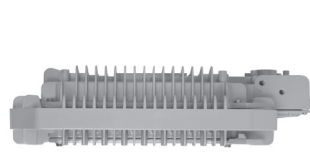
BHLP with clear lens



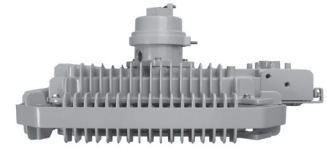
BLL
9K, 15K, 19K Lumens with standard mounting



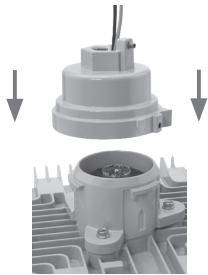
BLLP
9K, 15K, 19K Lumens with quick mount pendant option



BHL
24K, 30K, 38K Lumens with standard mounting



BHLP
24K, 30K, 38K Lumens with quick mount pendant option



Quick Mount Pendant System

The Appleton patented quick mount pendant system allows for easy prewiring of a hood for quick, one person fixture installation. Simply align the arrows, push up, and rotate the luminaire a quarter turn until it locks into place. Specify quick mount pendant with a "P" in the fifth digit of the part number.



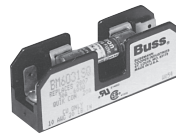
Cable Mount Option

The Baymaster High Bay can also be mounted with two Y style aircraft cables with spring clips, secured to eye bolts on the luminaire housing. Non quick mount models can be cable mounted and are wired through the 3/4" NPT entries in the wire box.



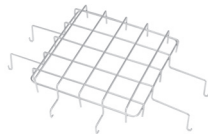
Driver Assembly

Replaceable drivers are waterproof (IP67) and offer standard 6 kV surge protection and over temperature protection.



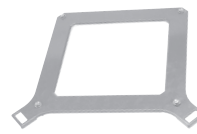
Optional Fusing †

Luminaire can be ordered with optional fusing. Fusing is not field installable.



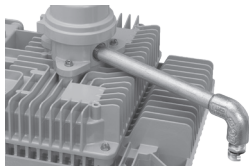
Optional Wire Guard

Stainless steel wire guard can be used for additional protection.



Optional Drain Assembly

Includes 228.6 mm (9" long), 1/2" trade size conduit nipple, elbow and drain.



[‡] mb applicable for select Cold Temperature configurations only.

[‡] Use of fuse voids marine rating.

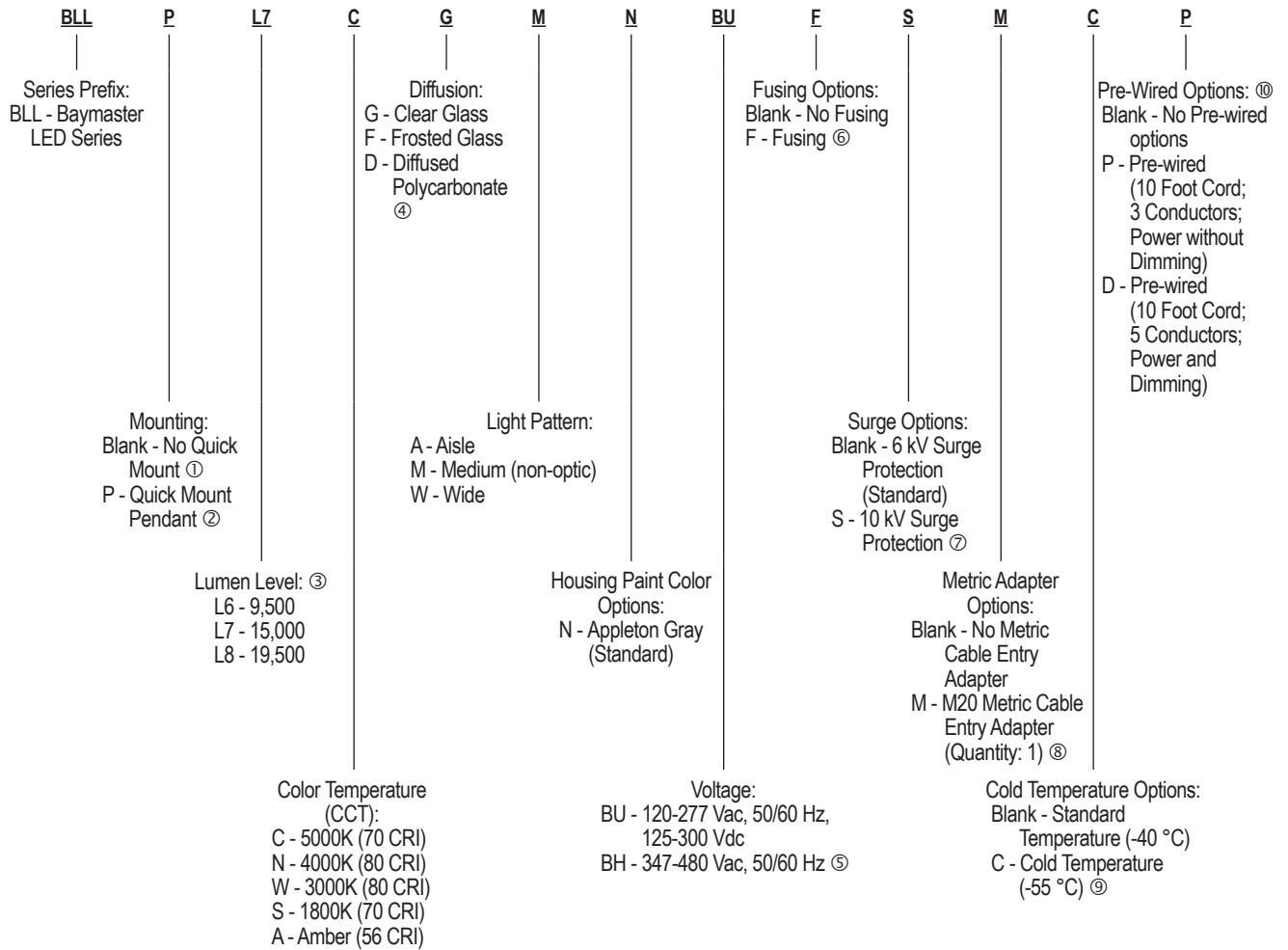
Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Order Using Catalog Numbering Guide — Baymaster™ LED Series Luminaires — Low Lumen Model



‡ mb applicable for select Cold Temperature configurations only.

- ① Dimming terminals in wiring compartment are standard for Non-Quick Mount configuration - for BU voltages only. Field wiring achieved through 3/4" NPT entries in front facing wiring compartment.
- ② Quick Mount Pendant includes pre-wired, factory installed, Quick Mount Pendant body and hood. Field wiring achieved through single 3/4" entry in mounting hood. Dimming and Pre-Wired options are not available for Quick Mount Pendant configuration.
- ③ All lumen values are typical (tolerance +/- 10%).
- ④ Diffused polycarbonate lens available for NEC/CEC only. Diffused Polycarbonate lens not available with Cold Start option.
- ⑤ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.
- ⑥ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.
- ⑦ 10kV Surge Protection not available with Cold Start option.
- ⑧ M20 Metric Cable Entry Adapter not available with Quick Mount Pendant or Pre-Wired options.
- ⑨ Cold Start option available for NEC/CEC only. Cold Start option not available with Diffused Polycarbonate lens, BH voltage, Fusing or 10kV Surge Protection.
- ⑩ Pre-Wiring available for NEC/CEC only. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option. Pre-Wired option only available with Non-Quick Mount version. Pre-Wiring not available with Metric Adapter option.

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Order Using Catalog Numbering Guide — Baymaster™ LED Series Luminaires — High Lumen Model

BHL	P	L2	C	G	M	N	BU	F	S	M	C	P
Series Prefix: BHL - Baymaster HL LED Series	Mounting: Blank - No Quick Mount ① P - Quick Mount Pendant ②	Lumen Level: ③ L1 - 24,000 L2 - 30,000 L3 - 38,000	Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)	Diffusion: G - Clear Glass F - Frosted Glass	Light Pattern: V - Very Narrow N - Narrow M - Medium (non-optic) W - Wide	Housing Paint Color Options: N - Appleton Gray (Standard)	Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ④	Fusing Options: Blank - No Fusing F - Fusing ⑤	Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ⑥	Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑦	Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑧	Pre-Wired Options: ⑨ Blank - No Pre-wired options P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)

‡ mb applicable for select Cold Temperature configurations only.

① Dimming terminals in wiring compartment are standard for Non-Quick Mount configuration - for BU voltages only. Field wiring achieved through 3/4" NPT entries in front facing wiring compartment.

② Quick Mount Pendant includes pre-wired, factory installed, Quick Mount Pendant body and hood. Field wiring achieved through single 3/4" entry in mounting hood. Dimming and Pre-Wired options are not available for Quick Mount Pendant configuration.

③ All lumen values are typical (tolerance +/- 10%).

④ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

⑤ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

⑥ 10kV Surge Protection not available with Cold Start option.

⑦ M20 Metric Cable Entry Adapter not available with Quick Mount Pendant or Pre-Wired options.

⑧ Cold Start option available for NEC/CEC only. Cold Start option not available with BH voltage, Fusing or 10kV Surge Protection.

⑨ Pre-Wiring available for NEC/CEC only. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option. Pre-Wired option only available with Non-Quick Mount version. Pre-Wiring not available with Metric Adapter option.

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Lumen Output (Efficacy) — Low Lumen Model 3000K, 4000K, 5000K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
BLLL6	175-250W	Type I Aisle	3000K	80	7,250	104	4000K	80	8,500	121	5000K	70	9,350	134
		Type V	3000K	80	7,650	109	4000K	80	9,000	129	5000K	70	9,900	141
		Type V Wide	3000K	80	6,700	96	4000K	80	7,850	112	5000K	70	8,650	124
BLLL7	250-400W	Type I Aisle	3000K	80	11,050	100	4000K	80	12,900	116	5000K	70	14,250	128
		Type V	3000K	80	11,500	104	4000K	80	13,650	123	5000K	70	15,000	135
		Type V Wide	3000K	80	10,200	92	4000K	80	11,900	107	5000K	70	13,150	118
BLLL8	400-750W	Type I Aisle	3000K	80	14,250	94	4000K	80	16,650	110	5000K	70	18,350	121
		Type V	3000K	80	15,000	99	4000K	80	17,550	115	5000K	70	19,500	128
		Type V Wide	3000K	80	13,150	87	4000K	80	15,350	101	5000K	70	16,900	111
Frosted Glass														
BLLL6	175-250W	Type I Aisle	3000K	80	5,950	85	4000K	80	6,950	99	5000K	70	7,700	110
		Type V	3000K	80	6,400	91	4000K	80	7,500	107	5000K	70	8,300	119
		Type V Wide	3000K	80	5,250	75	4000K	80	6,150	88	5000K	70	6,800	97
BLLL7	250-400W	Type I Aisle	3000K	80	9,100	82	4000K	80	10,600	95	5000K	70	11,700	105
		Type V	3000K	80	9,700	87	4000K	80	11,350	102	5000K	70	12,500	113
		Type V Wide	3000K	80	8,000	72	4000K	80	9,350	84	5000K	70	10,350	93
BLLL8	400-750W	Type I Aisle	3000K	80	11,700	77	4000K	80	13,650	90	5000K	70	15,000	99
		Type V	3000K	80	12,500	82	4000K	80	14,500	95	5000K	70	16,550	109
		Type V Wide	3000K	80	10,300	68	4000K	80	12,000	79	5000K	70	13,250	87
Diffused Polycarbonate														
BLLL6	175-250W	Type I Aisle	3000K	80	5,750	82	4000K	80	6,750	96	5000K	70	7,450	106
		Type V	3000K	80	6,250	89	4000K	80	7,300	104	5000K	70	8,050	115
		Type V Wide	3000K	80	5,150	74	4000K	80	6,000	86	5000K	70	6,650	95
BLLL7	250-400W	Type I Aisle	3000K	80	8,800	79	4000K	80	10,250	92	5000K	70	11,350	102
		Type V	3000K	80	9,450	85	4000K	80	11,000	99	5000K	70	12,200	110
		Type V Wide	3000K	80	7,850	71	4000K	80	9,160	83	5000K	70	10,150	91
BLLL8	400-750W	Type I Aisle	3000K	80	11,350	75	4000K	80	13,250	87	5000K	70	14,650	96
		Type V	3000K	80	12,100	80	4000K	80	14,150	93	5000K	70	15,650	103
		Type V Wide	3000K	80	10,100	66	4000K	80	11,800	78	5000K	70	13,000	86

‡ mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Lumen Output (Efficacy) — Low Lumen Model Amber, 1800K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
BLLL6	175-250W	Type I Aisle	Amber	56	4,900	68	1800K	70	5,550	77
		Type V	Amber	56	5,900	82	1800K	70	6,700	94
		Type V Wide	Amber	56	5,400	78	1800K	70	6,150	89
BLLL7	250-400W	Type I Aisle	Amber	56	7,250	62	1800K	70	8,300	71
		Type V	Amber	56	8,550	78	1800K	70	9,800	89
		Type V Wide	Amber	56	8,150	73	1800K	70	9,300	84
BLLL8	400-750W	Type I Aisle	Amber	56	10,000	65	1800K	70	11,700	76
		Type V	Amber	56	10,450	69	1800K	70	12,250	81
		Type V Wide	Amber	56	10,150	67	1800K	70	11,650	77
Frosted Glass										
BLLL6	175-250W	Type I Aisle	Amber	56	4,150	58	1800K	70	4,700	65
		Type V	Amber	56	4,950	69	1800K	70	5,600	79
		Type V Wide	Amber	56	4,550	66	1800K	70	5,250	76
BLLL7	250-400W	Type I Aisle	Amber	56	6,100	52	1800K	70	6,950	59
		Type V	Amber	56	7,150	65	1800K	70	8,250	75
		Type V Wide	Amber	56	6,900	63	1800K	70	7,900	71
BLLL8	400-750W	Type I Aisle	Amber	56	8,450	55	1800K	70	9,850	64
		Type V	Amber	56	8,800	58	1800K	70	10,300	68
		Type V Wide	Amber	56	8,500	56	1800K	70	9,950	66
Diffused Polycarbonate										
BLLL6	175-250W	Type I Aisle	Amber	56	3,950	55	1800K	70	4,450	62
		Type V	Amber	56	4,700	66	1800K	70	5,350	75
		Type V Wide	Amber	56	4,300	62	1800K	70	4,950	72
BLLL7	250-400W	Type I Aisle	Amber	56	5,750	49	1800K	70	6,600	56
		Type V	Amber	56	6,850	62	1800K	70	7,850	71
		Type V Wide	Amber	56	6,600	60	1800K	70	7,500	67
BLLL8	400-750W	Type I Aisle	Amber	56	8,000	52	1800K	70	9,350	61
		Type V	Amber	56	8,350	55	1800K	70	9,850	65
		Type V Wide	Amber	56	8,050	53	1800K	70	9,450	62

[‡] mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Lumen Output (Efficacy) — High Lumen Model 3000K, 4000K, 5000K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
BHLL1	1000W	Type V Very Narrow	3000K	80	19,350	109	4000K	80	20,250	114	5000K	70	22,750	128
		Type V Narrow	3000K	80	20,850	117	4000K	80	21,900	123	5000K	70	25,000	140
		Type V	3000K	80	20,100	113	4000K	80	21,300	120	5000K	70	24,250	136
		Type V Wide	3000K	80	17,900	101	4000K	80	18,800	106	5000K	70	21,000	118
BHLL2	1000-1500W	Type V Very Narrow	3000K	80	23,450	106	4000K	80	24,600	111	5000K	70	27,500	124
		Type V Narrow	3000K	80	25,500	115	4000K	80	26,700	120	5000K	70	30,000	135
		Type V	3000K	80	24,650	111	4000K	80	26,100	118	5000K	70	29,750	134
		Type V Wide	3000K	80	21,800	98	4000K	80	22,850	103	5000K	70	25,650	116
BHLL3	1500W	Type V Very Narrow	3000K	80	29,500	99	4000K	80	30,950	104	5000K	70	34,750	117
		Type V Narrow	3000K	80	32,000	107	4000K	80	33,600	113	5000K	70	37,500	126
		Type V	3000K	80	31,000	104	4000K	80	32,800	110	5000K	70	37,400	126
		Type V Wide	3000K	80	27,550	92	4000K	80	28,850	97	5000K	70	32,400	109
Frosted Glass														
BHLL1	1000W	Type V Very Narrow	3000K	80	17,200	97	4000K	80	17,950	101	5000K	70	20,000	112
		Type V Narrow	3000K	80	18,600	104	4000K	80	19,350	109	5000K	70	21,550	121
		Type V	3000K	80	16,850	95	4000K	80	18,000	101	5000K	70	20,500	115
		Type V Wide	3000K	80	14,250	80	4000K	80	14,850	83	5000K	70	16,700	94
BHLL2	1000-1500W	Type V Very Narrow	3000K	80	21,000	95	4000K	80	21,950	99	5000K	70	24,750	111
		Type V Narrow	3000K	80	22,650	102	4000K	80	23,600	106	5000K	70	26,000	117
		Type V	3000K	80	20,550	93	4000K	80	18,000	81	5000K	70	25,000	113
		Type V Wide	3000K	80	17,350	78	4000K	80	23,600	106	5000K	70	20,350	92
BHLL3	1500W	Type V Very Narrow	3000K	80	26,400	89	4000K	80	27,500	92	5000K	70	31,000	104
		Type V Narrow	3000K	80	28,600	96	4000K	80	29,750	100	5000K	70	33,500	112
		Type V	3000K	80	26,000	87	4000K	80	27,700	93	5000K	70	31,500	106
		Type V Wide	3000K	80	21,900	73	4000K	80	22,800	77	5000K	70	25,700	86

[‡] mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Lumen Output (Efficacy) — High Lumen Model Amber, 1800K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
BHLL1	1000W	Type V Very Narrow	Amber	56	14,050	76	1800K	70	14,450	78
		Type V Narrow	Amber	56	14,350	78	1800K	70	15,900	86
		Type V	Amber	56	14,150	77	1800K	70	15,850	86
		Type V Wide	Amber	56	13,350	73	1800K	70	15,050	82
BHLL2	1000-1500W	Type V Very Narrow	Amber	56	16,200	73	1800K	70	16,850	76
		Type V Narrow	Amber	56	16,700	75	1800K	70	18,600	83
		Type V	Amber	56	16,550	75	1800K	70	18,500	83
		Type V Wide	Amber	56	15,600	71	1800K	70	17,550	79
BHLL3	1500W	Type V Very Narrow	Amber	56	18,750	63	1800K	70	19,850	67
		Type V Narrow	Amber	56	19,850	67	1800K	70	21,850	73
		Type V	Amber	56	19,500	66	1800K	70	21,800	73
		Type V Wide	Amber	56	18,450	62	1800K	70	20,700	69
Frosted Glass										
BHLL1	1000W	Type V Very Narrow	Amber	56	12,500	68	1800K	70	12,850	70
		Type V Narrow	Amber	56	12,650	69	1800K	70	14,200	77
		Type V	Amber	56	12,000	66	1800K	70	13,500	73
		Type V Wide	Amber	56	11,350	62	1800K	70	13,000	71
BHLL2	1000-1500W	Type V Very Narrow	Amber	56	14,250	64	1800K	70	15,000	67
		Type V Narrow	Amber	56	14,850	67	1800K	70	16,500	74
		Type V	Amber	56	14,050	63	1800K	70	15,800	71
		Type V Wide	Amber	56	13,250	60	1800K	70	15,200	68
BHLL3	1500W	Type V Very Narrow	Amber	56	16,950	57	1800K	70	17,650	59
		Type V Narrow	Amber	56	17,400	59	1800K	70	19,500	65
		Type V	Amber	56	16,450	55	1800K	70	18,600	62
		Type V Wide	Amber	56	15,800	53	1800K	70	17,900	60

± mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
BLLL6 BLLPL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
BLLL7 BLLPL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
BLLL8 BLLPL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
BHLL1 BHLPL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
BHLL2 BHLPL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
BHLL3 BHLPL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

[‡] mb applicable for select Cold Temperature configurations only.

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

NEC/CEC Temperature Codes

Model	Max Driver Current (mA)	Max Ambient C° (F°)	Gas		Dust		Combined Class I, Division 2 and Class II, Division 1	Gas Ex ec IIC, Class I, Zone 2, AEx ec IIC	Dust Ex tb IIIC, Zone 21, AEx tb IIIC
			Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 20 Group IIIC			
BLLL6	410	40 (104)	T5	T5	T6	T6	T4A	T5	T85 °C
		55 (131)	T4A	T4	T6	T6	T4A	T4	T85 °C
		65 (149)	T4A	T4	T6	T6	T4	T4	T85 °C
BLLL7	680	40 (104)	T4	T4	T6	T6	T4	T4	T85 °C
		55 (131)	T3C	T3	T6	T6	T3C	T3	T85 °C
		65 (149)	T3C ①	T3 ①	T5 ①	T5 ①	T3C ①	T3 ②	T100 °C ②
BLLL8	930	40 (104)	T3C	T3	T6	T6	T3C	T3	T85 °C
		55 (131)	T3B ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
		65 (149)	T3A ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
BHLL1	530	40 (104)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		55 (131)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		65 (149)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
BHLL2	680	40 (104)	T4	T4	T6/T5 ③	T6/T5 ③	T4	T4	T85°C/T100°C ③
		55 (131)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
		65 (149)	T3C	T3	T5 ③	T5 ③	T4	T3	T100°C
BHLL3	915	40 (104)	T3C	T3	T6/T5 ③	T6/T5 ③	T3C	T3	T85°C/T100°C ③
		55 (131)	T3C	T3	T5 ③	T5 ③	T3C	T3	T100°C
		65 (149)	—	—	—	—	—	—	—

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ④ ⑤

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

‡ mb applicable for select Cold Temperature configurations only.

Notes: Supply Wire Temperature for all: +90 °C (+194 °F).

For input voltages of 125-169 Vdc, an ambient temperature exceeding +55 °C (+131 °F) is not permitted.

① Diffused polycarbonate lens option is not certified for these ambient temperature and lumen output combinations. Diffused polycarbonate not available for BHL high lumen series.

② Diffused polycarbonate lens is certified for NEC/CEC only. No face up orientation for installation.

③ T5 is maximum allowed temperature code, and T100°C is maximum allowed temperature, when model number includes 3x3 secondary optic.

④ T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

⑤ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

ATEX/IECEx Temperature Codes

Model	Max Driver Current (mA)	Gas — T Rating			Dust — Surface Temperature		
		+40°C (+104°F)	+55 °C (+131°F)	+65°C (+149°F)	+40°C (+104°F)	+55 °C (+131°F)	+65°C (+149°F)
BLLL6	410	T5	T4	T4	T85°C	T85°C	T85°C
BLLL7	680	T4	T3	T3	T85°C	T85°C	T100°C
BLLL8	930	T3	T3	T3	T85°C	T100°C	T100°C
BHLL1	530	T4	T4	T4	T85°C ①	T85°C ①	T100°C
BHLL2	680	T4	T4	T3	T85°C ①	T100°C	T100°C
BHLL3	915	T3	T3	—	T85°C ①	T100°C	—

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450	+201 to +300	+136 to +200	+101 to +135	+86 to +100	+85
	(+547 to +842)	(+394 to +572)	(+277 to +392)	(+214 to +275)	(+187 to +212)	(+185)

± mb applicable for select Cold Temperature configurations only.

① Baymaster High Lumen with Very Narrow secondary optic surface temperature is T100°C for these ranges.


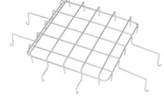






Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Accessories and Replacement Parts

	Description	Weight in kg (lb)	Catalog Number
Quick-Connect Pendant Hood Replacement			
	Baymaster Quick-Connect Pendant Hood Replacement	0.4 (0.9)	BMQCPH
Guard			
	BLLL6/BLLPL6, BLLL7/BLLPL7, BLLL8/BLLPL8	0.2 (0.4)	LGGUARD
	BHLL1/BHLPL1, BHLL2/BHLPL2, BHLL3/BHLPL3		LHGUARD
Safety Cable			
	Stainless steel - 1.22 m (4 ft)	0.2 (0.4)	LEDSC
	Stainless steel - 2.44 m (8 ft)	0.4 (0.8)	LEDSC8
Drain			
	228.6 mm (9" long), 1/2" trade size drain assembly for use with quick mount pendant hood	0.5 (1.2)	LEDDR9
Y Mounting Cable			
	1.5 m (5 ft.) cable mount — stainless steel Includes two (5 ft.) Y cables with spring clips and four eye bolts	0.5 (1.2)	LEDC5
Safety Support Hooks			
	3/4 inch Male Hanger Loop 5/8 inch diameter wireway 75.4 kg (166 lbs.) weight rating	0.2 (0.5)	FHLM-75
Replacement Covers/Lenses			
	Clear Glass — BLLL6/BLLPL6, BLLL7/BLLPL7, BLLL8/BLLPL8	2.2 (4.8)	BLLCLEAR
	Frosted Glass — BLLL6/BLLPL6, BLLL7/BLLPL7, BLLL8/BLLPL8	2.0 (4.5)	BLLFROST
	Diffused Polycarbonate — BLLL6/BLLPL6, BLLL7/BLLPL7, BLLL8/BLLPL8	1.6 (3.5)	BLLDIFFP
	Clear Glass — BHLL1/BHLPL1, BHLL2/BHLPL2, BHLL3/BHLPL3	2.4 (5.3)	BHLCLEAR
	Frosted Glass — BHLL1/BHLPL1, BHLL2/BHLPL2, BHLL3/BHLPL3	2.4 (5.3)	BHLFROST
Yoke Mount Bracket			
	Stainless Steel Yoke Mount Bracket. For installations requiring a higher degree of corrosion protection. Made with all stainless steel components, no painted finish.	1.8 (4.0)	AMLYMSS
	Architectural Bronze Replacement Yoke Bracket - Matches mounting hole pattern of Crouse-Hinds™ ± Champ FMVA and Champ Pro PFMA LED series floodlights	1.41 (3.1)	AMLYMCH

‡ mb applicable for select Cold Temperature configurations only.

± Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[†] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number	
Low Lumen Model	Standard Temperature (-40 °C)					
	BLLL6C/ BLLPL6C, BLLL6N/ BLLPL6N, BLLL6W/ BLLPL6W, BLLL6S/ BLLPL6S, BLLL6A/ BLLPL6A	BU	100 Watt	410mA		APMS100C105UD41
		BH				APMS100C105HD41
	BLLL7W/ BLLPL7W	BU	150 Watt	650mA		APMS150C105UD65
		BH				APMS150C105HD65
	BLLL7C/ BLLPL7C, BLLL7N/ BLLPL7N, BLLL7S/ BLLPL7S, BLLL7A/ BLLPL7A	BU	150 Watt	680mA		APMS150C105UD68
		BH				APMS150C105HD68
	BLLL8W/ BLLPL8W	BU	150 Watt	890mA		APMS150C105UD89
		BH				APMS150C105HD89
	BLLL8C/ BLLPL8C, BLLL8N/ BLLPL8N, BLLL8S/ BLLPL8S, BLLL8A/ BLLPL8A	BU	150 Watt	930mA		APMS150C105UD93
		BH				APMS150C105HD93
	Cold Temperature (-55 °C)					
	BLLL6/ BLLPL6 - all CCTs	BU	100 Watt	410mA		APMZ100C090UD41
	BLLL7/ BLLPL7 - all CCTs	BU	150 Watt	680mA		APMZ150C135UD68
BLLL8/ BLLPL8 - all CCTs	BU	150 Watt	930mA		APMZ150C135UD93	
High Lumen Model	Standard Temperature (-40 °C)					
	BHLL1C/ BHLPL1C, BHLL1N/ BHLPL1N, BHLL1W/ BHLPL1W, BHLL1S/ BHLPL1S, BHLL1A/ BHLPL1A	BU	100 Watt	530mA		APMS100C105UD53
		BH				APMS100C105HD53
	BHLL2W/ BHLPL2W	BU	150 Watt	650mA		APMS150C105UD65
		BH				APMS150C105HD65
	BHLL2C/ BHLPL2C, BHLL2N/ BHLPL2N, BHLL2S/ BHLPL2S, BHLL2A/ BHLPL2A	BU	150 Watt	680mA		APMS150C105UD68
		BH				APMS150C105HD68
	BHLL3W/ BHLPL3W	BU	150 Watt	890mA		APMS150C105UD89
		BH				APMS150C105HD89
	BHLL3C/ BHLPL3C, BHLL3N/ BHLPL3N, BHLL3S/ BHLPL3S, BHLL3A/ BHLPL3A	BU	150 Watt	915mA		APMS150C105UD91
		BH				APMS150C105HD91
	Cold Temperature (-55 °C)					
	BHLL1/ BHLPL1 - all CCTs	BU	100 Watt	530mA		APMZ100C090UD53
	BHLL2/ BHLPL2 - all CCTs	BU	150 Watt	680mA		APMZ150C135UD68
BHLL3/ BHLPL3 - all CCTs	BU	150 Watt	915mA		APMZ150C135UD93	

Luminaire Weights

Description	Weight in kg (lbs)
Low Lumen Model — BLLL6/BLLPL6, BLLL7/BLLPL7, BLLL8/BLLPL8 Luminaires	9.8 (21.6)
High Lumen Model — BHLL1/BHLPL1, BHLL2/BHLPL2, BHLL3/BHLPL3 Luminaires	16.1 (35.4)

[†] mb applicable for select Cold Temperature configurations only.

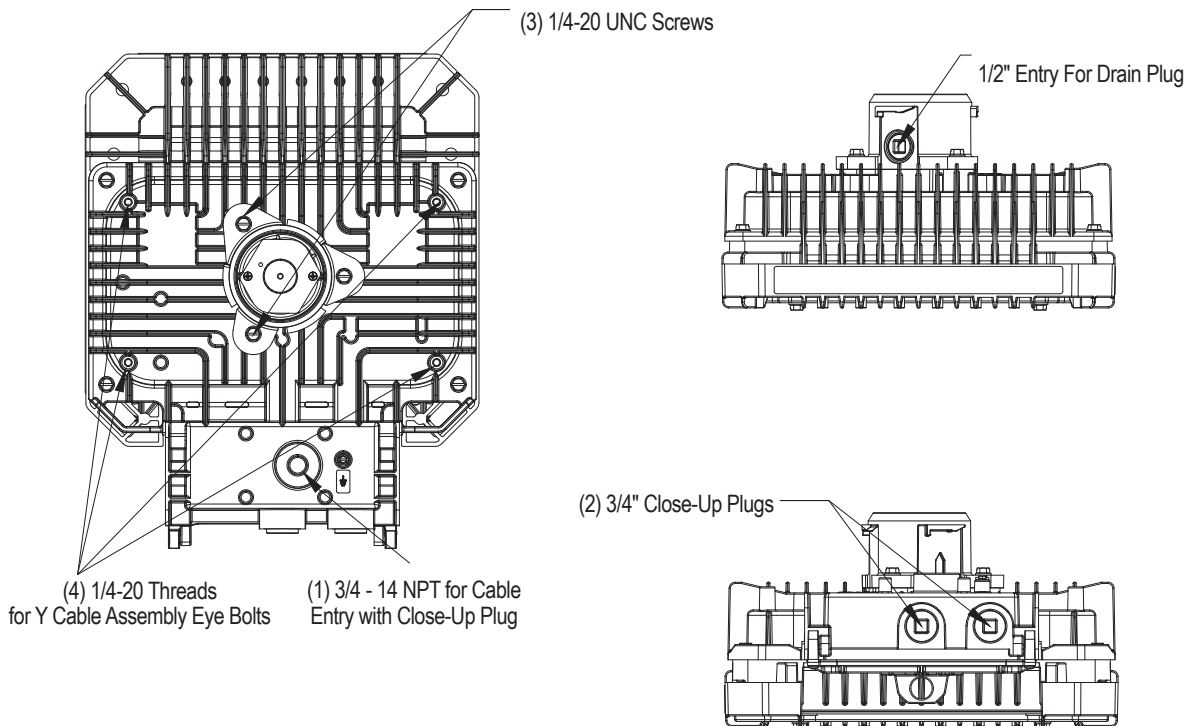
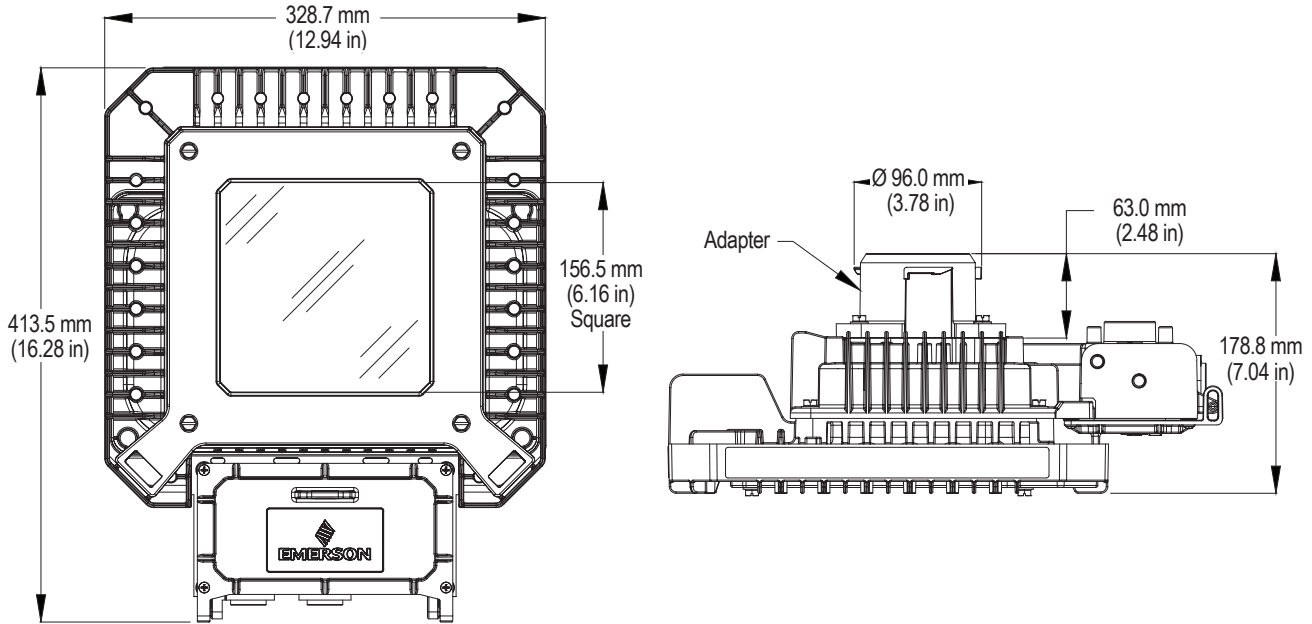
Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[±] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 - 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

BLLP Dimensions in Millimeters (Inches) — High Bay — With Quick Mount Pendant System — Low Lumen Model



[±] mb applicable for select Cold Temperature configurations only.

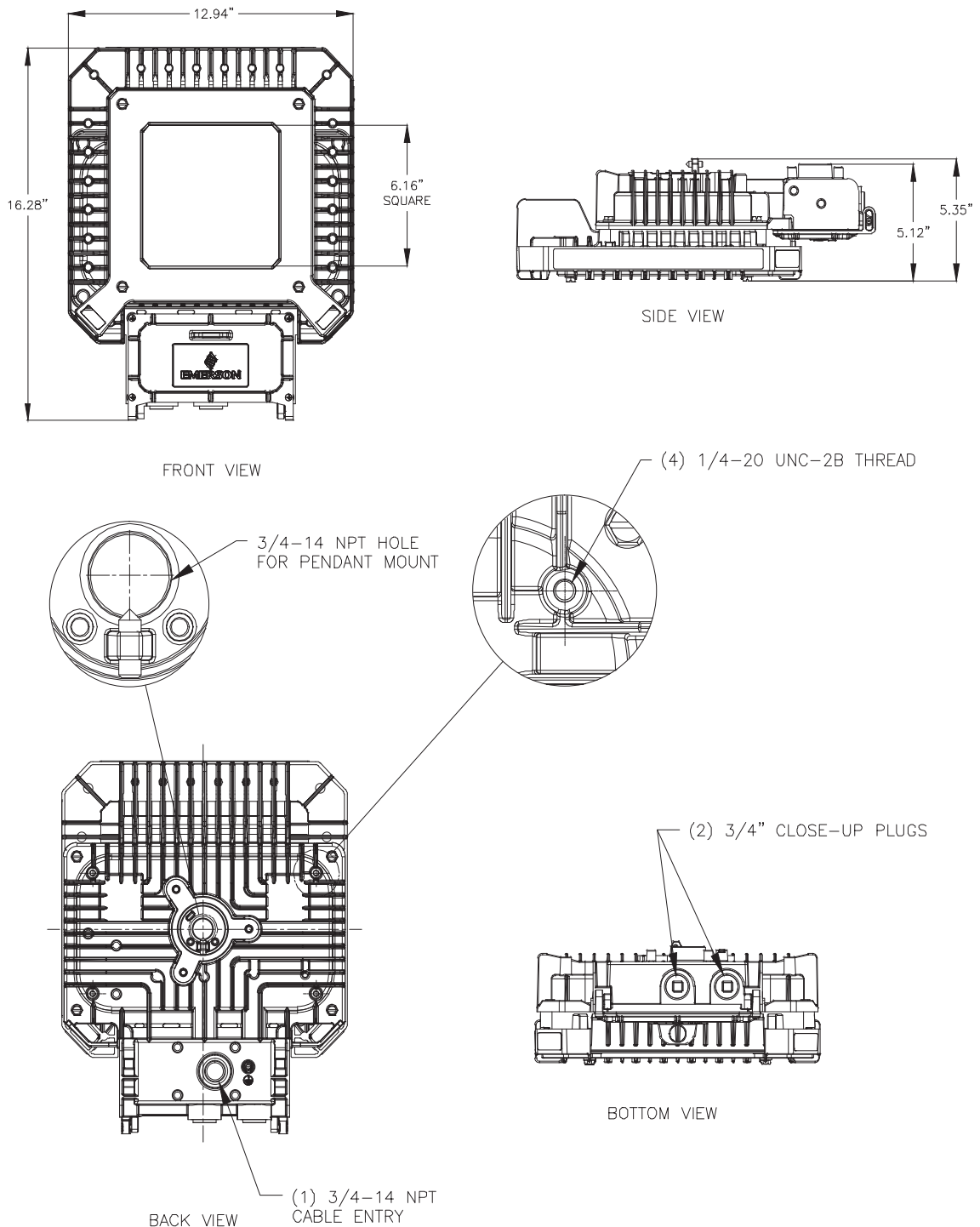
Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[±] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
ATEX/IECEX: Zones 2 – 21 and 22
Markings: CE | UKCA | UKEX
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

BLLL Dimensions in Millimeters (Inches) — High Bay — No Mount — Low Lumen Model



± mb applicable for select Cold Temperature configurations only.

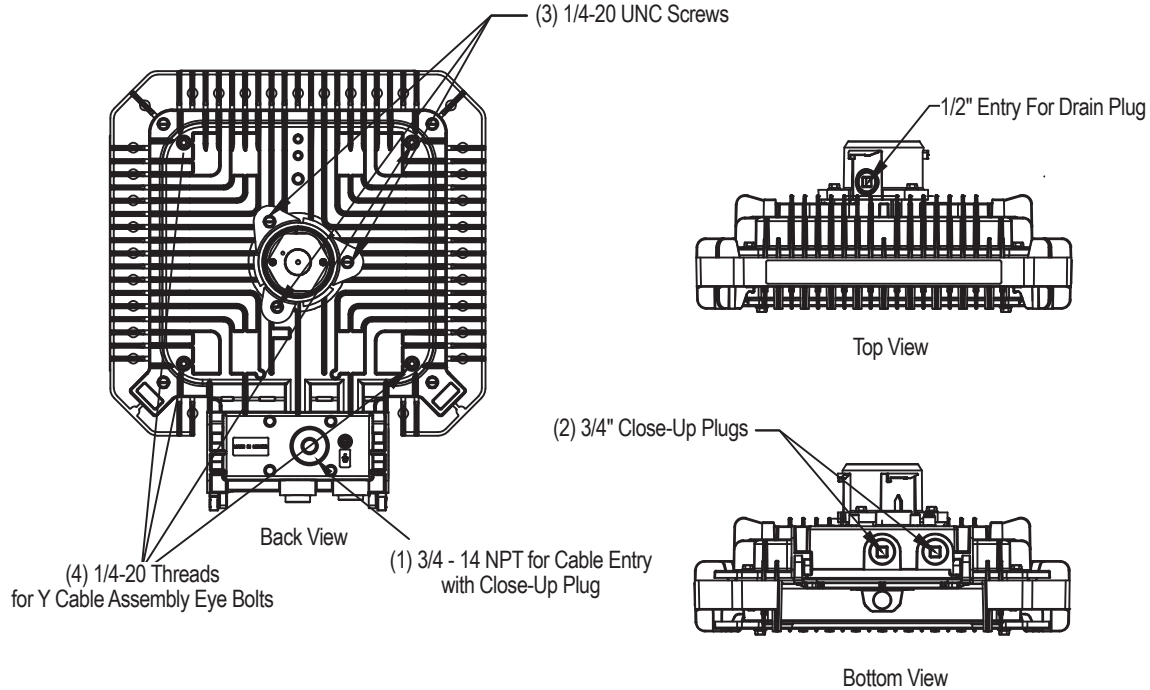
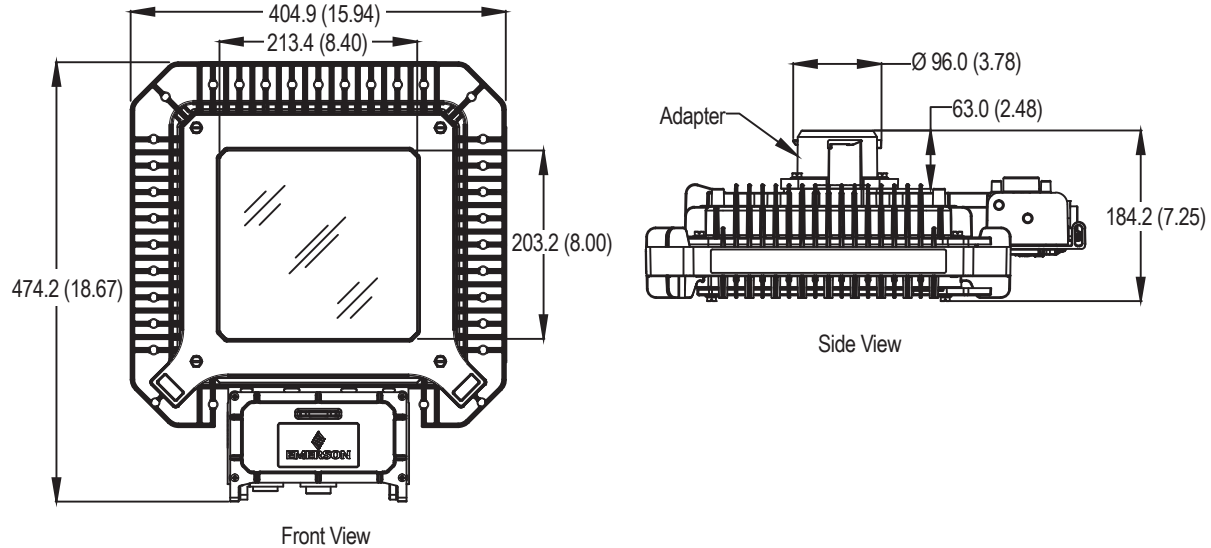
Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[±] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

BHLP Dimensions in Millimeters (Inches) — High Bay — With Quick Mount Pendant System — High Lumen Model



[±] mb applicable for select Cold Temperature configurations only.

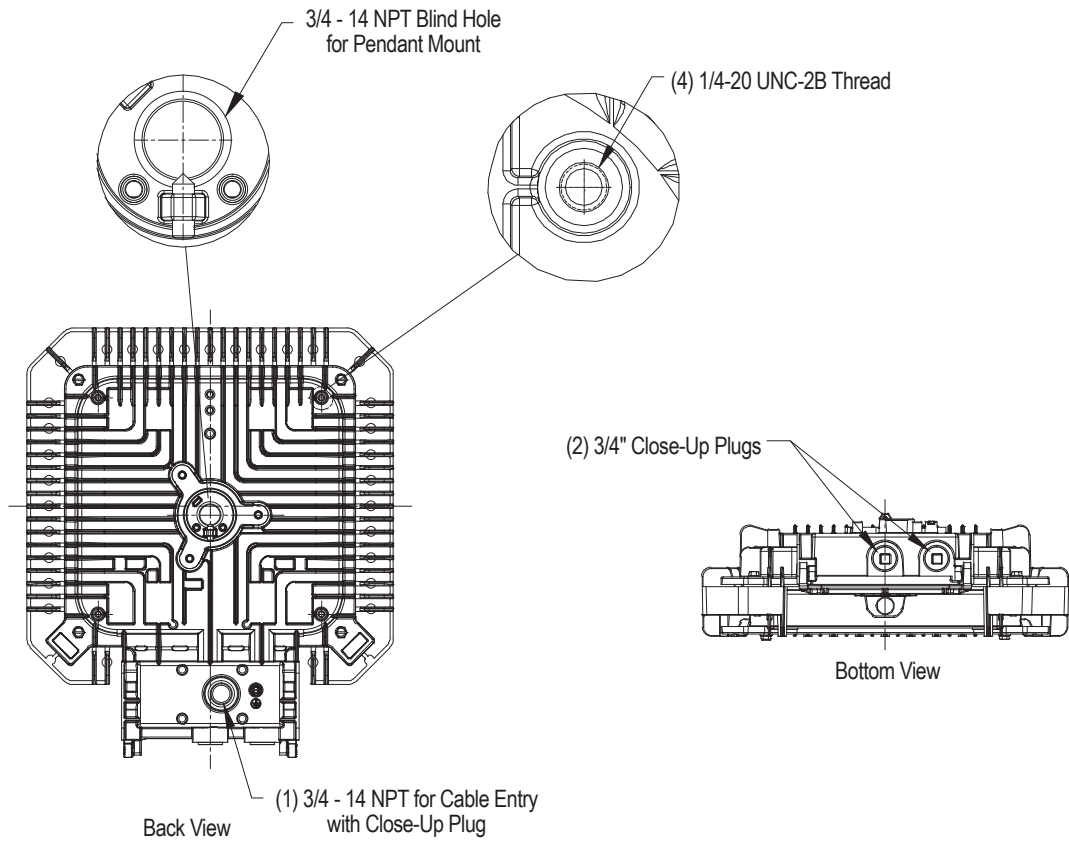
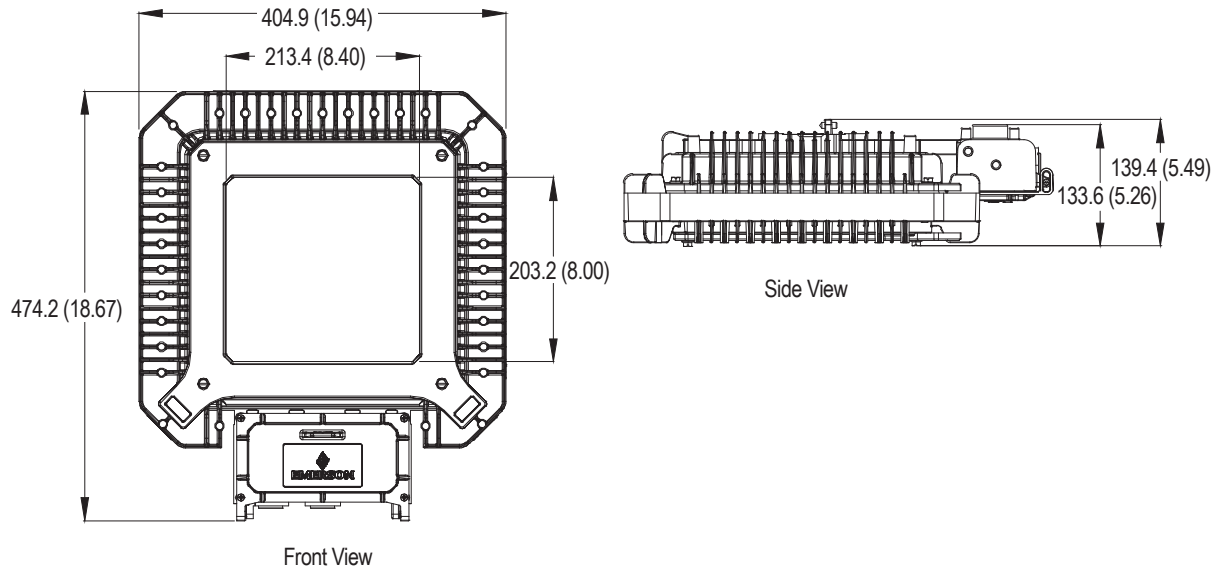
Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 - 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

BHL Dimensions in Millimeters (Inches) — High Bay — No Mount — High Lumen Model



± mb applicable for select Cold Temperature configurations only.

Lighting

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Photometric Data — DATA SHOWN IS ABSOLUTE

Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: **BLLPL6CGANBU**

Luminaire Lumens 9,679

POLAR CANDELA DISTRIBUTION

Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: **BLLPL6WGANBU**

Luminaire Lumens 8,432

POLAR CANDELA DISTRIBUTION

Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: **BLLPL7CGANBU**

Luminaire Lumens 15,234

POLAR CANDELA DISTRIBUTION

Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: **BLLPL7WGANBU**

Luminaire Lumens 12,579

POLAR CANDELA DISTRIBUTION

Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: **BLLPL8CGANBU**

Luminaire Lumens 19,774

POLAR CANDELA DISTRIBUTION

Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: **BLLPL8WGANBU**

Luminaire Lumens 16,350

POLAR CANDELA DISTRIBUTION

‡ mb applicable for select Cold Temperature configurations only.

A254 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

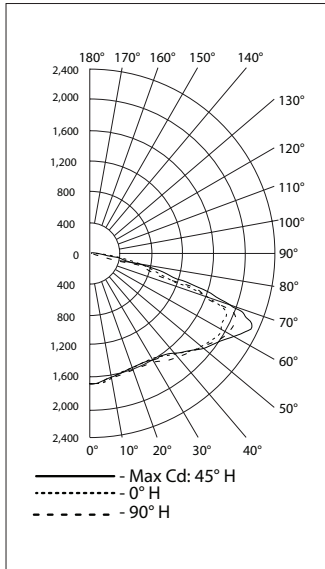
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL6CGWNBU

Luminaire Lumens 8,682

POLAR CANDELA DISTRIBUTION

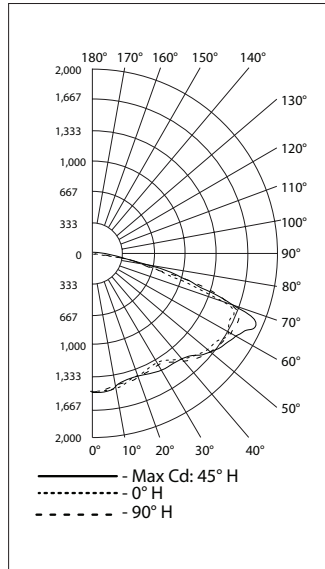


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BLLPI6GWNBU

Luminaire Lumens 7,506

POLAR CANDELA DISTRIBUTION

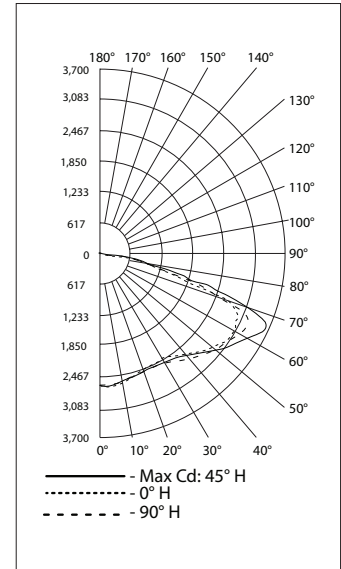


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL7CGWNBU

Luminaire Lumens 13,608

POLAR CANDELA DISTRIBUTION

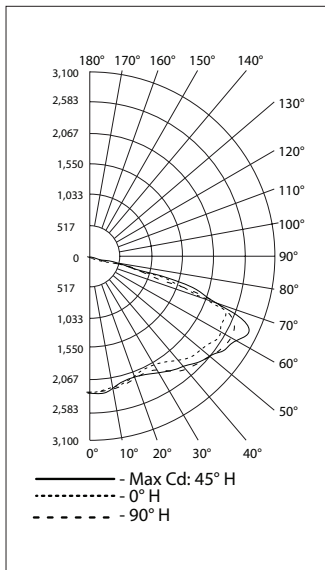


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BLLPI7GWNBU

Luminaire Lumens 11,351

POLAR CANDELA DISTRIBUTION

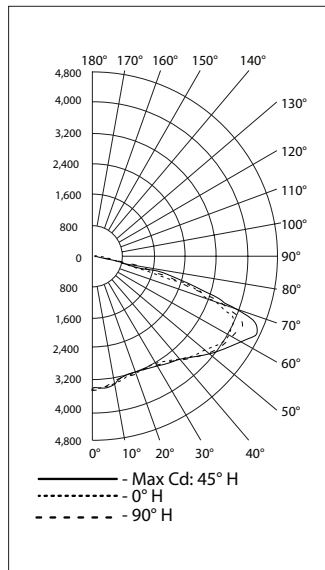


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL8CGWNBU

Luminaire Lumens 17,710

POLAR CANDELA DISTRIBUTION

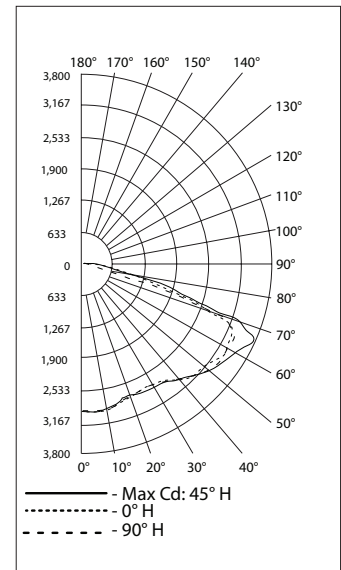


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BLLPL8GWNBU

Luminaire Lumens 14,676

POLAR CANDELA DISTRIBUTION



± mb applicable for select Cold Temperature configurations only.

Lighting

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass, 3000K CCT

REPORT NUMBER: BLLPL6CGMNB

Luminaire Lumens 9,758

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL7CGMNB

Luminaire Lumens 15,392

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL8CGMNB

Luminaire Lumens 20,097

POLAR CANDELA DISTRIBUTION

Type V, Frosted Glass, 5000K CCT

REPORT NUMBER: BLLPL6CFMNB

Luminaire Lumens 8,209

POLAR CANDELA DISTRIBUTION

Type V, Frosted Glass, 5000K CCT

REPORT NUMBER: BLLPL7CFMNB

Luminaire Lumens 12,955

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT

REPORT NUMBER: BLLPL8CFMNB

Luminaire Lumens 16,711

POLAR CANDELA DISTRIBUTION

± mb applicable for select Cold Temperature configurations only.

A256 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

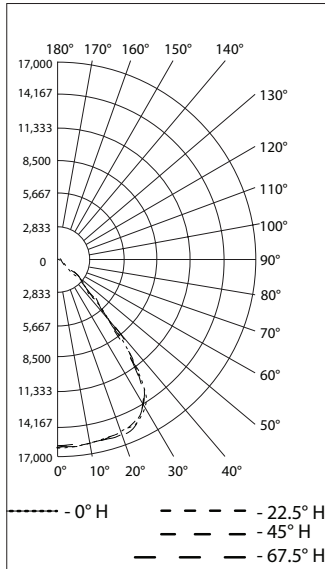
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL1CGNNBU

Luminaire Lumens 24,459

POLAR CANDELA DISTRIBUTION

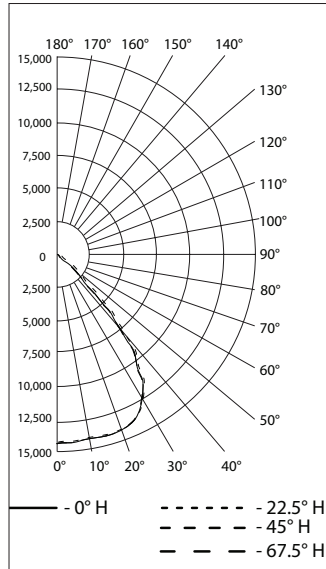


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL1WGNNBU

Luminaire Lumens 21,648

POLAR CANDELA DISTRIBUTION

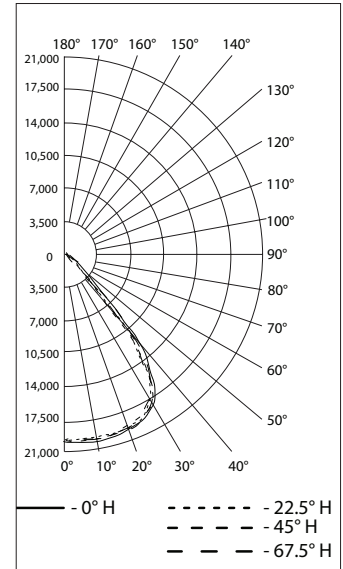


Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL2CGNNBU

Luminaire Lumens 30,396

POLAR CANDELA DISTRIBUTION

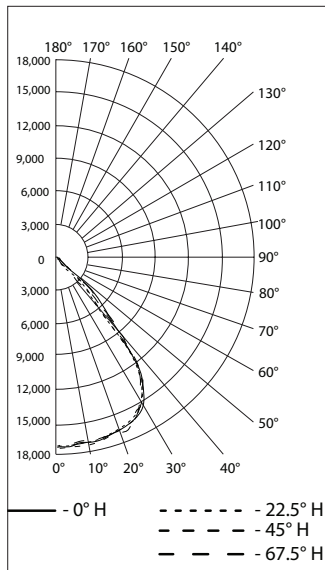


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL2WGNNBU

Luminaire Lumens 25,785

POLAR CANDELA DISTRIBUTION

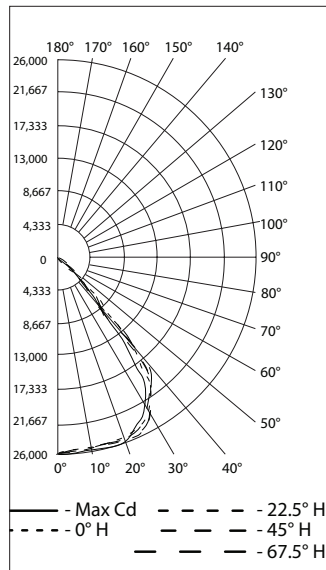


Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL3CGNNBU

Luminaire Lumens 39,041

POLAR CANDELA DISTRIBUTION

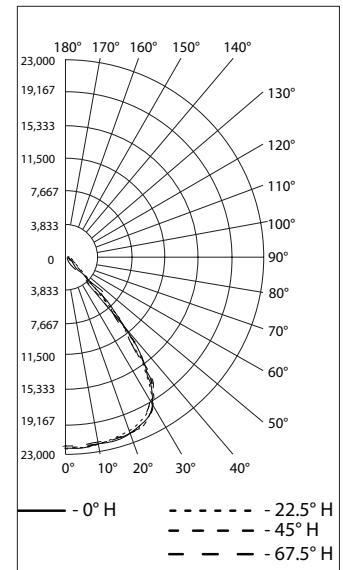


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL3WGNNBU

Luminaire Lumens 33,341

POLAR CANDELA DISTRIBUTION



± mb applicable for select Cold Temperature configurations only.

Lighting

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL1CGWNB

Luminaire Lumens 20,665

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL1WGWB

Luminaire Lumens 18,689

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL2CGWNB

Luminaire Lumens 25,896

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL2WGWB

Luminaire Lumens 22,278

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL3CGWNB

Luminaire Lumens 33,374

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: BHLPL3WGWB

Luminaire Lumens 28,864

POLAR CANDELA DISTRIBUTION

— 0° H - - - - - 22.5° H
 - - - - - 45° H
 - - - - - 67.5° H

± mb applicable for select Cold Temperature configurations only.

A258 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Baymaster™ and High Lumen LED Series Luminaires

High Bay

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (BLLL and BHLL models only)

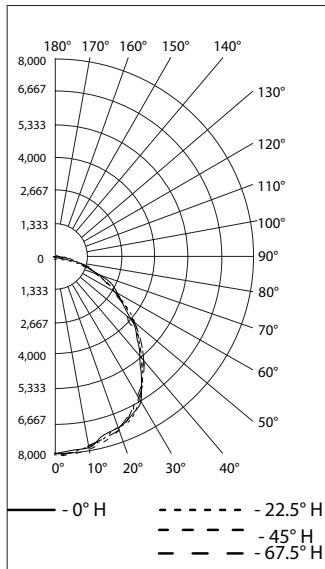
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Medium, Frosted Glass, 5000K CCT

REPORT NUMBER: BHLPL1CFMNBU

Luminaire Lumens 20,801

POLAR CANDELA DISTRIBUTION

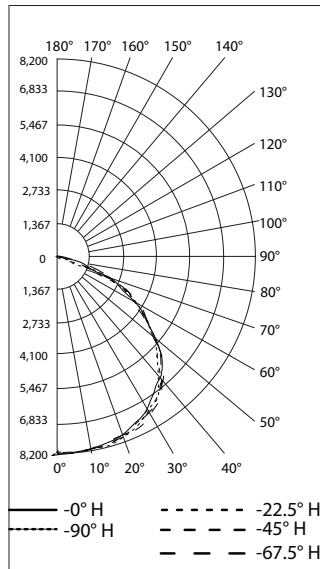


Type V Medium, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL1CGMNBU

Luminaire Lumens 24,352

POLAR CANDELA DISTRIBUTION

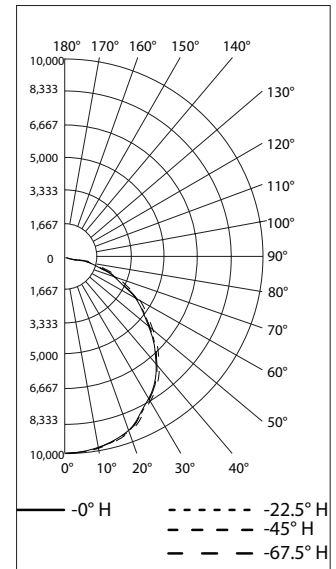


Type V Medium, Frosted Glass, 5000K CCT

REPORT NUMBER: BHLPL2CFMNBU

Luminaire Lumens 25,979

POLAR CANDELA DISTRIBUTION

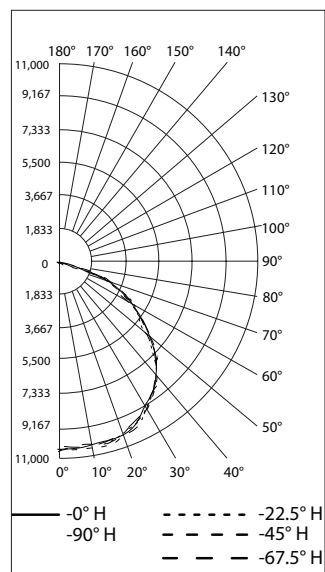


Type V Medium, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL2CGMNBU

Luminaire Lumens 30,375

POLAR CANDELA DISTRIBUTION

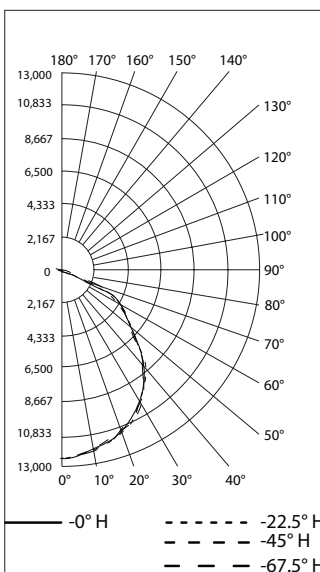


Type V, Frosted Glass, 5000K CCT

REPORT NUMBER: BHLPL3CFMNBU

Luminaire Lumens 32,107

POLAR CANDELA DISTRIBUTION

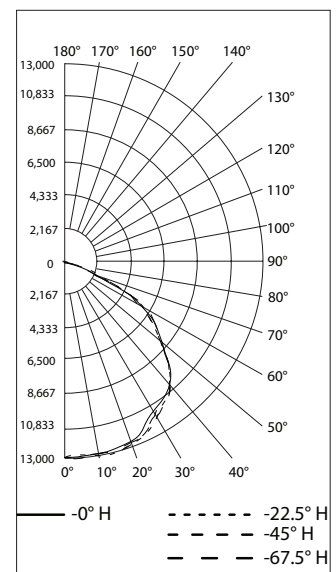


Type V, Clear Glass, 5000K CCT

REPORT NUMBER: BHLPL3CGMNBU

Luminaire Lumens 37,574

POLAR CANDELA DISTRIBUTION



± mb applicable for select Cold Temperature configurations only.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Applications

- Powerful, efficient, weatherproof lighting fixtures suitable for use in a wide range of industrial areas, for example:
 - Steel Production Plants
 - Power Generation Facilities
 - Foundries
 - Cement, Stone and Sand Plants
 - Pulp and Paper Mills
 - Ship Building and Shipping Ports
 - Storage Areas
 - Security Lighting
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem.
 - IP66/IP67, Type 4X, marine and wet locations.
 - Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
 - 40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range.
 - 40 °C to +55 °C (-40 °F to +131 °F) for high lumen IBHL(P)L3 output.
 - 55 °C (-67 °F) Cold Start option available for BU voltages only.
- See Catalog Numbering Guide for more details.

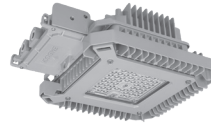
Features

- Six lumen outputs provide up to 38,000 lumens.

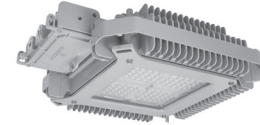
Nominal Lumens ①	HID Equivalent	Model Number
9,500	175-250W	IBLL6/IBLLPL6
15,000	250-400W	IBLL7/IBLLPL7
19,500	400-750W	IBLL8/IBLLPL8
24,000	1000W	IBHL1/IBHLPL1
30,000	1000-1500W	IBHL2/IBHLPL2
38,000	1500W	IBHL3/IBHLPL3

- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire (Non Quick Mount version only).
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapter available. (Three close-up plugs provided when quick mount pendant system is ordered).
- Unique quick mount pendant system allows for easy prewiring without supporting the High Bay in place. Quick mount adapter hood includes one 3/4" NPT entry.
- Alternate mounting system allows for "Y" cable mount and easy wiring via a separate field wiring compartment with a screw terminal block.
- Floodlight mounting achieved by using Areamaster Generation 2 LED yoke bracket.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, 3000K (80 CRI) warm white, 1800K (70 CRI), or Amber (56 CRI).
- L70 Ratings:

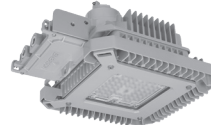
+25 °C (+77 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 135,000 hours



IBLL — Clear Lens



IBHL — Frosted Lens



IBLLP — Frosted Lens



IBHLP — Clear Lens

- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- 0-10 Vdc Dimming standard for all Non-Quick Mount versions.
- Captive fasteners secure one-piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.

Warranty ②

- 10 year standard warranty.

Options

- Improved safety cable design with multiple retention points, purchase separately.
- Guard and visor available, *purchase separately*.
- Y mount cable assembly, *purchase separately*.
- Drain assembly, *purchase separately*.
- 10 kV/5 kA Surge Protection
- For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies.

Controls

- Dimming:
 - Luminaire has a two-wire, 0-10V variable dimming input port for controlling the light output - for BU voltages only.
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

① Nominal lumen value for 5000K, Medium Beam, with clear glass. Detailed lumen information provided in tables.

② For warranty details go to www.appleton.emerson.com.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Standard Materials

- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided (Non Quick Mount version)
- Guard and safety cable: stainless steel

Standard Finishes

- Housing, lens cover, quick mount body and hood; baked gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standards: UL1598; UL1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0
- cETLus 104364566CHI-001, 104364566CHI-002
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency (IBLL and IBHLL models only)

NOM: Norma Oficial Mexicana

- NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
- NOM Certificate: ULM-NOM-15621

IECEE CB Certificates and Compliances

- IEC 60598-1, IEC 60598-2-1
- IECEE CB Certificates: CB 164460-80075818
- Index of Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

CE and UKCA Marking

- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

ABS Certifications

- IBLL and IBHL: 23-2443580-PDA

DesignLights™ Consortium

- Improved safety cable design with multiple retention points, purchase separately.

Related Products

- Baymaster and High Lumen LED Luminaires

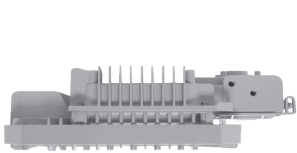
① Nominal lumen value for 5000K, Medium Beam, with clear glass. Detailed lumen information provided in tables.

Industrial Baymaster™ and High Lumen LED Series Luminaires

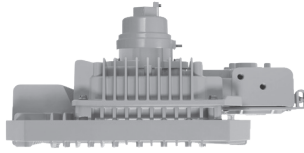
High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

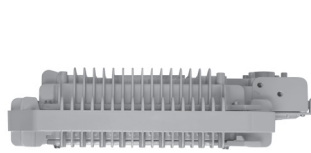
Illustrated Features



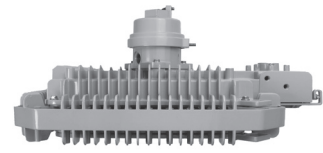
IBLL
9K, 15K, 19K Lumens with standard mounting



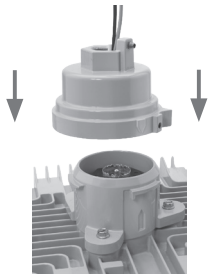
IBLLP
9K, 15K, 19K Lumens with quick mount pendant option



IBHL
24K, 30K, 38K Lumens with standard mounting



IBHLP
24K, 30K, 38K Lumens with quick mount pendant option



Quick Mount Pendant System

The Appleton patented quick mount pendant system allows for easy prewiring of a hood for quick, one person fixture installation. Simply align the arrows, push up, and rotate the luminaire a quarter turn until it locks into place. Specify quick mount pendant with a "P" in the fifth digit of the part number.



Cable Mount Option

The Baymaster High Bay can also be mounted with two Y style aircraft cables with spring clips, secured to eye bolts on the luminaire housing. Non quick mount models can be cable mounted and are wired through the 3/4" NPT entries in the wire box.



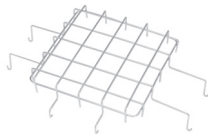
Driver Assembly

Replaceable drivers are waterproof (IP67) and offer standard 6 kV surge protection and over temperature protection.



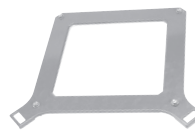
Optional Fusing *

Luminaire can be ordered with optional fusing. Fusing is not field installable.



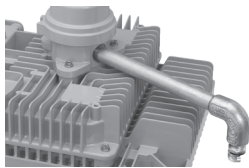
Optional Wire Guard

Stainless steel wire guard can be used for additional protection.



Replaceable Cover Assembly

The replaceable cover assembly is available with clear or frosted glass.



Optional Drain Assembly

Includes 228.6 mm (9" long), 1/2" trade size conduit nipple, elbow and drain.

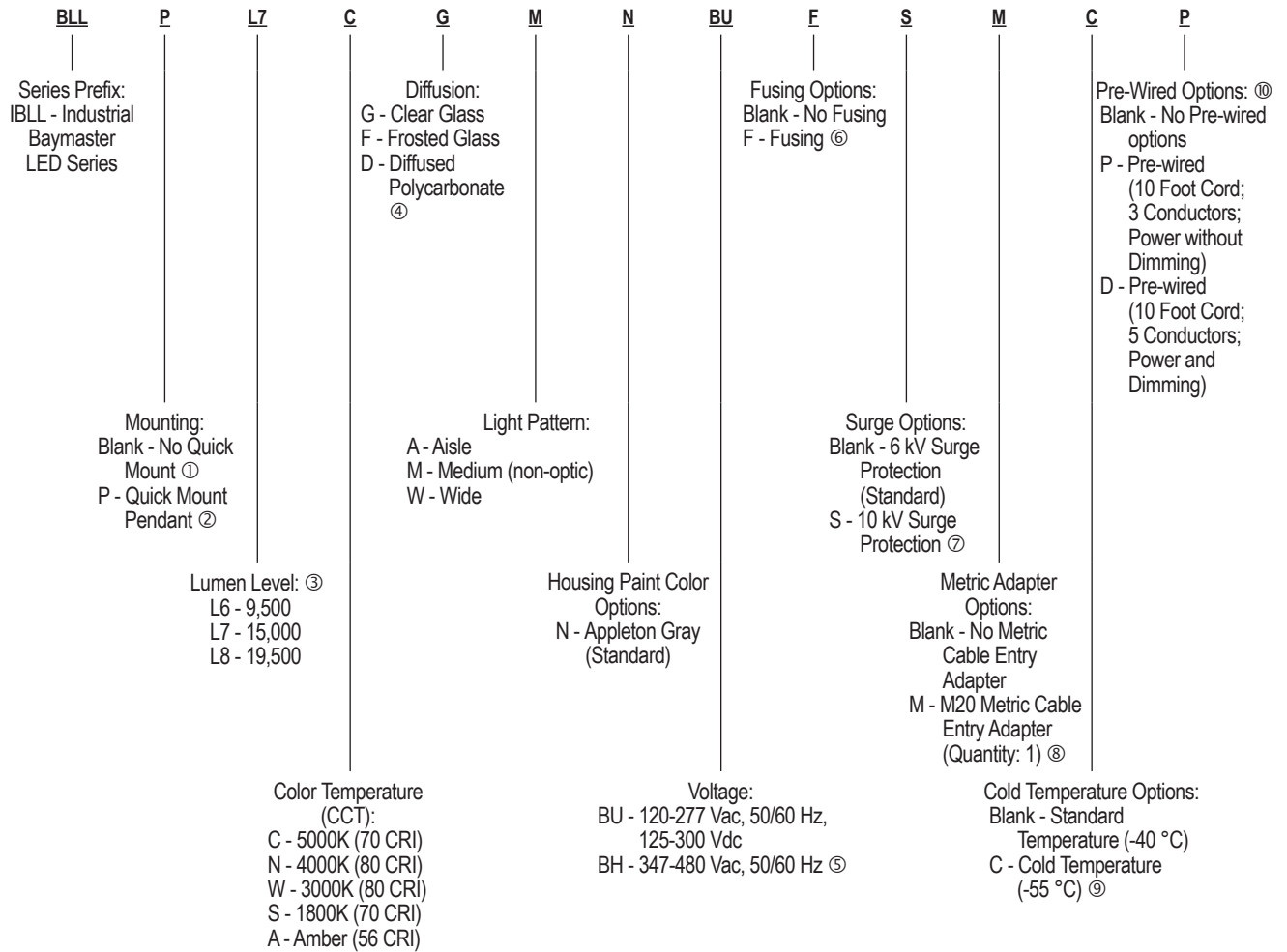
* Use of fuse voids marine rating.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Order Using Catalog Numbering Guide — Industrial Baymaster™ LED Series Luminaires — Low Lumen Model



① Dimming terminals in wiring compartment are standard for Non-Quick Mount configuration - for BU voltage only. Field wiring achieved through 3/4" NPT entries in front facing wiring compartment.
② Quick Mount Pendant includes pre-wired, factory installed, Quick Mount Pendant body and hood. Field wiring achieved through single 3/4" entry in mounting hood. Dimming and Pre-Wired options are not available for Quick Mount Pendant configuration.
③ All lumen values are typical (tolerance +/- 10%).
④ Diffused polycarbonate lens available for NEC/CEC only. Diffused Polycarbonate lens not available with Cold Start option.
⑤ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.
⑥ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.
⑦ 10kV Surge Protection not available with Cold Start option.
⑧ M20 Metric Cable Entry Adapter not available with Quick Mount Pendant or Pre-Wired options.
⑨ Cold Start option available for NEC/CEC only. Cold Start option not available with Diffused Polycarbonate lens, BH voltage, Fusing or 10kV Surge Protection.
⑩ Pre-Wiring available for NEC/CEC only. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option. Pre-Wired option only available with Non-Quick Mount version. Pre-Wiring not available with Metric Adapter option.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Order Using Catalog Numbering Guide — Industrial Baymaster™ LED Series Luminaires — High Lumen Model

IBHL	P	L2	C	G	M	N	BU	F	S	M	C	P
Series Prefix: IBHL - Industrial Baymaster HL LED Series	Mounting: Blank - No Quick Mount ① P - Quick Mount Pendant ②	Lumen Level: ③ L1 - 24,000 L2 - 30,000 L3 - 38,000	Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)	Diffusion: G - Clear Glass F - Frosted Glass	Light Pattern: V - Very Narrow N - Narrow M - Medium (non-optic) W - Wide	Housing Paint Color Options: N - Appleton Gray (Standard)	Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ④	Fusing Options: Blank - No Fusing F - Fusing ⑤	Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ⑥	Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑦	Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑧	Pre-Wired Options: ⑨ Blank - No Pre-wired options P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)

① Dimming terminals in wiring compartment are standard for Non-Quick Mount configuration - for BU voltage only. Field wiring achieved through 3/4" NPT entries in front facing wiring compartment.

② Quick Mount Pendant includes pre-wired, factory installed, Quick Mount Pendant body and hood. Field wiring achieved through single 3/4" entry in mounting hood. Dimming and Pre-Wired options are not available for Quick Mount Pendant configuration.

③ All lumen values are typical (tolerance +/- 10%).

④ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

⑤ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

⑥ 10kV Surge Protection not available with Cold Start option.

⑦ M20 Metric Cable Entry Adapter not available with Quick Mount Pendant or Pre-Wired options.

⑧ Cold Start option available for NEC/CEC only. Cold Start option not available with BH voltage, Fusing or 10kV Surge Protection.

⑨ Pre-Wiring available for NEC/CEC only. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option. Pre-Wired option only available with Non-Quick Mount version. Pre-Wiring not available with Metric Adapter option.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Lumen Output (Efficacy) — Low Lumen Model 3000K, 4000K, 5000K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
IBLL6	175-250W	Type I Aisle	3000K	80	7,250	104	4000K	80	8,500	121	5000K	70	9,350	134
		Type V	3000K	80	7,650	109	4000K	80	9,000	129	5000K	70	9,900	141
		Type V Wide	3000K	80	6,700	96	4000K	80	7,850	112	5000K	70	8,650	124
IBLL7	250-400W	Type I Aisle	3000K	80	11,050	100	4000K	80	12,900	116	5000K	70	14,250	128
		Type V	3000K	80	11,500	104	4000K	80	13,650	123	5000K	70	15,000	135
		Type V Wide	3000K	80	10,200	92	4000K	80	11,900	107	5000K	70	13,150	118
IBLL8	400-750W	Type I Aisle	3000K	80	14,250	94	4000K	80	16,650	110	5000K	70	18,350	121
		Type V	3000K	80	15,000	99	4000K	80	17,550	115	5000K	70	19,500	128
		Type V Wide	3000K	80	13,150	87	4000K	80	15,350	101	5000K	70	16,900	111
Frosted Glass														
IBLL6	175-250W	Type I Aisle	3000K	80	5,950	85	4000K	80	6,950	99	5000K	70	7,700	110
		Type V	3000K	80	6,400	91	4000K	80	7,500	107	5000K	70	8,300	119
		Type V Wide	3000K	80	5,250	75	4000K	80	6,150	88	5000K	70	6,800	97
IBLL7	250-400W	Type I Aisle	3000K	80	9,100	82	4000K	80	10,600	95	5000K	70	11,700	105
		Type V	3000K	80	9,700	87	4000K	80	11,350	102	5000K	70	12,500	113
		Type V Wide	3000K	80	8,000	72	4000K	80	9,350	84	5000K	70	10,350	93
IBLL8	400-750W	Type I Aisle	3000K	80	11,700	77	4000K	80	13,650	90	5000K	70	15,000	99
		Type V	3000K	80	12,500	82	4000K	80	14,500	95	5000K	70	16,550	109
		Type V Wide	3000K	80	10,300	68	4000K	80	12,000	79	5000K	70	13,250	87
Diffused Polycarbonate														
IBLL6	175-250W	Type I Aisle	3000K	80	5,750	82	4000K	80	6,750	96	5000K	70	7,450	106
		Type V	3000K	80	6,250	89	4000K	80	7,300	104	5000K	70	8,050	115
		Type V Wide	3000K	80	5,150	74	4000K	80	6,000	86	5000K	70	6,650	95
IBLL7	250-400W	Type I Aisle	3000K	80	8,800	79	4000K	80	10,250	92	5000K	70	11,350	102
		Type V	3000K	80	9,450	85	4000K	80	11,000	99	5000K	70	12,200	110
		Type V Wide	3000K	80	7,850	71	4000K	80	9,160	83	5000K	70	10,150	91
IBLL8	400-750W	Type I Aisle	3000K	80	11,350	75	4000K	80	13,250	87	5000K	70	14,650	96
		Type V	3000K	80	12,100	80	4000K	80	14,150	93	5000K	70	15,650	103
		Type V Wide	3000K	80	10,100	66	4000K	80	11,800	78	5000K	70	13,000	86

① All lumen values are typical (tolerance +/-10%).

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Lumen Output (Efficacy) — Low Lumen Model Amber, 1800K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
IBLL6	175-250W	Type I Aisle	Amber	56	4,900	68	1800K	70	5,550	77
		Type V	Amber	56	5,900	82	1800K	70	6,700	94
		Type V Wide	Amber	56	5,400	78	1800K	70	6,150	89
IBLL7	250-400W	Type I Aisle	Amber	56	7,250	62	1800K	70	8,300	71
		Type V	Amber	56	8,550	78	1800K	70	9,800	89
		Type V Wide	Amber	56	8,150	73	1800K	70	9,300	84
IBLL8	400-750W	Type I Aisle	Amber	56	10,000	65	1800K	70	11,700	76
		Type V	Amber	56	10,450	69	1800K	70	12,250	81
		Type V Wide	Amber	56	10,150	67	1800K	70	11,650	77
Frosted Glass										
IBLL6	175-250W	Type I Aisle	Amber	56	4,150	58	1800K	70	4,700	65
		Type V	Amber	56	4,950	69	1800K	70	5,600	79
		Type V Wide	Amber	56	4,550	66	1800K	70	5,250	76
IBLL7	250-400W	Type I Aisle	Amber	56	6,100	52	1800K	70	6,950	59
		Type V	Amber	56	7,150	65	1800K	70	8,250	75
		Type V Wide	Amber	56	6,900	63	1800K	70	7,900	71
IBLL8	400-750W	Type I Aisle	Amber	56	8,450	55	1800K	70	9,850	64
		Type V	Amber	56	8,800	58	1800K	70	10,300	68
		Type V Wide	Amber	56	8,500	56	1800K	70	9,950	66
Diffused Polycarbonate										
IBLL6	175-250W	Type I Aisle	Amber	56	3,950	55	1800K	70	4,450	62
		Type V	Amber	56	4,700	66	1800K	70	5,350	75
		Type V Wide	Amber	56	4,300	62	1800K	70	4,950	72
IBLL7	250-400W	Type I Aisle	Amber	56	5,750	49	1800K	70	6,600	56
		Type V	Amber	56	6,850	62	1800K	70	7,850	71
		Type V Wide	Amber	56	6,600	60	1800K	70	7,500	67
IBLL8	400-750W	Type I Aisle	Amber	56	8,000	52	1800K	70	9,350	61
		Type V	Amber	56	8,350	55	1800K	70	9,850	65
		Type V Wide	Amber	56	8,050	53	1800K	70	9,450	62

① All lumen values are typical (tolerance +/-10%).

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Lumen Output (Efficacy) — High Lumen Model 3000K, 4000K, 5000K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
IBHLL1	1000W	Type V Very Narrow	3000K	80	19,350	109	4000K	80	20,250	114	5000K	70	22,750	128
		Type V Narrow	3000K	80	20,850	117	4000K	80	21,900	123	5000K	70	25,000	140
		Type V	3000K	80	20,100	113	4000K	80	21,300	120	5000K	70	24,250	136
		Type V Wide	3000K	80	17,900	101	4000K	80	18,800	106	5000K	70	21,000	118
IBHLL2	1000-1500W	Type V Very Narrow	3000K	80	23,450	106	4000K	80	24,600	111	5000K	70	27,500	124
		Type V Narrow	3000K	80	25,500	115	4000K	80	26,700	120	5000K	70	30,000	135
		Type V	3000K	80	24,650	111	4000K	80	26,100	118	5000K	70	29,750	134
		Type V Wide	3000K	80	21,800	98	4000K	80	22,850	103	5000K	70	25,650	116
IBHLL3	1500W	Type V Very Narrow	3000K	80	29,500	99	4000K	80	30,950	104	5000K	70	34,750	117
		Type V Narrow	3000K	80	32,000	107	4000K	80	33,600	113	5000K	70	37,500	126
		Type V	3000K	80	31,000	104	4000K	80	32,800	110	5000K	70	37,400	126
		Type V Wide	3000K	80	27,550	92	4000K	80	28,850	97	5000K	70	32,400	109
Frosted Glass														
IBHLL1	1000W	Type V Very Narrow	3000K	80	17,200	97	4000K	80	17,950	101	5000K	70	20,000	112
		Type V Narrow	3000K	80	18,600	104	4000K	80	19,350	109	5000K	70	21,550	121
		Type V	3000K	80	16,850	95	4000K	80	18,000	101	5000K	70	20,500	115
		Type V Wide	3000K	80	14,250	80	4000K	80	14,850	83	5000K	70	16,700	94
IBHLL2	1000-1500W	Type V Very Narrow	3000K	80	21,000	95	4000K	80	21,950	99	5000K	70	24,750	111
		Type V Narrow	3000K	80	22,650	102	4000K	80	23,600	106	5000K	70	26,000	117
		Type V	3000K	80	20,550	93	4000K	80	18,000	81	5000K	70	25,000	113
		Type V Wide	3000K	80	17,350	78	4000K	80	23,600	106	5000K	70	20,350	92
IBHLL3	1500W	Type V Very Narrow	3000K	80	26,400	89	4000K	80	27,500	92	5000K	70	31,000	104
		Type V Narrow	3000K	80	28,600	96	4000K	80	29,750	100	5000K	70	33,500	112
		Type V	3000K	80	26,000	87	4000K	80	27,700	93	5000K	70	31,500	106
		Type V Wide	3000K	80	21,900	73	4000K	80	22,800	77	5000K	70	25,700	86

① All lumen values are typical (tolerance +/-10%).

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

Lumen Output (Efficacy) — High Lumen Model Amber, 1800K ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
IBHLL1	1000W	Type V Very Narrow	Amber	56	14,050	76	1800K	70	14,450	78
		Type V Narrow	Amber	56	14,350	78	1800K	70	15,900	86
		Type V	Amber	56	14,150	77	1800K	70	15,850	86
		Type V Wide	Amber	56	13,350	73	1800K	70	15,050	82
IBHLL2	1000-1500W	Type V Very Narrow	Amber	56	16,200	73	1800K	70	16,850	76
		Type V Narrow	Amber	56	16,700	75	1800K	70	18,600	83
		Type V	Amber	56	16,550	75	1800K	70	18,500	83
		Type V Wide	Amber	56	15,600	71	1800K	70	17,550	79
IBHLL3	1500W	Type V Very Narrow	Amber	56	18,750	63	1800K	70	19,850	67
		Type V Narrow	Amber	56	19,850	67	1800K	70	21,850	73
		Type V	Amber	56	19,500	66	1800K	70	21,800	73
		Type V Wide	Amber	56	18,450	62	1800K	70	20,700	69
Frosted Glass										
IBHLL1	1000W	Type V Very Narrow	Amber	56	12,500	68	1800K	70	12,850	70
		Type V Narrow	Amber	56	12,650	69	1800K	70	14,200	77
		Type V	Amber	56	12,000	66	1800K	70	13,500	73
		Type V Wide	Amber	56	11,350	62	1800K	70	13,000	71
IBHLL2	1000-1500W	Type V Very Narrow	Amber	56	14,250	64	1800K	70	15,000	67
		Type V Narrow	Amber	56	14,850	67	1800K	70	16,500	74
		Type V	Amber	56	14,050	63	1800K	70	15,800	71
		Type V Wide	Amber	56	13,250	60	1800K	70	15,200	68
IBHLL3	1500W	Type V Very Narrow	Amber	56	16,950	57	1800K	70	17,650	59
		Type V Narrow	Amber	56	17,400	59	1800K	70	19,500	65
		Type V	Amber	56	16,450	55	1800K	70	18,600	62
		Type V Wide	Amber	56	15,800	53	1800K	70	17,900	60

① All lumen values are typical (tolerance +/-10%).

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLLL and IBHLL models only)

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
IBLLL6 IBLLPL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
IBLLL7 IBLLPL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
IBLLL8 IBLLPL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
IBHLL1 IBHLPL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
IBHLL2 IBHLPL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
IBHLL3 IBHLPL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations









NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Accessories and Replacement Parts

	Description	Weight in kg (lb)	Catalog Number
Quick-Connect Pendant Hood Replacement			
	Baymaster Quick-Connect Pendant Hood Replacement	0.4 (0.9)	BMQCPH
Guard			
	IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	0.2 (0.4)	LGGUARD
	IBHLL1/IBHLPL1, IBHLL2/IBHLPL2, IBHLL3/IBHLPL3		LHGUARD
Safety Cable			
	Stainless steel - 1.22 m (4 ft)	0.2 (0.4)	LEDSC
	Stainless steel - 2.44 m (8 ft)	0.4 (0.8)	LEDSC8
Drain			
	228.6 mm (9" long), 1/2" trade size drain assembly for use with quick mount pendant hood	0.5 (1.2)	LEDDR9
Y Mounting Cable			
	1.5 m (5 ft.) cable mount — stainless steel Includes two (5 ft.) Y cables with spring clips and four eye bolts	0.5 (1.2)	LEDC5
Safety Support Hooks			
	3/4 inch Male Hanger Loop 5/8 inch diameter wireway 75.4 kg (166 lbs.) weight rating	0.2 (0.5)	FHLM-75
Replacement Covers/Lenses			
	Clear Glass — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	2.2 (4.8)	BLLCLEAR
	Frosted Glass — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	2.0 (4.5)	BLLFROST
	Diffused Polycarbonate — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8	1.6 (3.5)	BLLDIFFP
	Clear Glass — IBHLL1/IBHLPL1, IBHLL2/IBHLPL2, IBHLL3/IBHLPL3	2.4 (5.3)	BHLCLEAR
	Frosted Glass — IBHLL1/IBHLPL1, IBHLL2/IBHLPL2, IBHLL3/IBHLPL3	2.4 (5.3)	BHLFROST
Yoke Mount Bracket			
	Stainless Steel Yoke Mount Bracket. For installations requiring a higher degree of corrosion protection. Made with all stainless steel components, no painted finish.	1.8 (4.0)	AMLYMSS
	Architectural Bronze Replacement Yoke Bracket - Matches mounting hole pattern of Crouse-Hinds™ ± Champ FMVA and Champ Pro PFMA LED series floodlights	1.41 (3.1)	AMLYMCH

± Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number	
Low Lumen Model	Standard Temperature (-40 °C)					
	IBLL6C/ IBLLPL6C, IBLL6N/ IBLLPL6N, IBLL6W/ IBLLPL6W, IBLL6S/ IBLLPL6S, IBLL6A/ IBLLPL6A	BU	100 Watt	410mA		APMS100C105UD41
		BH				APMS100C105HD41
	IBLL7W/ IBLLPL7W	BU	150 Watt	650mA		APMS150C105UD65
		BH				APMS150C105HD65
	IBLL7C/ IBLLPL7C, IBLL7N/ IBLLPL7N, IBLL7S/ IBLLPL7S, IBLL7A/ IBLLPL7A	BU	150 Watt	680mA		APMS150C105UD68
		BH				APMS150C105HD68
	IBLL8W/ IBLLPL8W	BU	150 Watt	890mA		APMS150C105UD89
		BH				APMS150C105HD89
	IBLL8C/ IBLLPL8C, IBLL8N/ IBLLPL8N, IBLL8S/ IBLLPL8S, IBLL8A/ IBLLPL8A	BU	150 Watt	930mA		APMS150C105UD93
		BH				APMS150C105HD93
	Cold Temperature (-55 °C)					
	IBLL6/ IBLLPL6 - all CCTs	BU	100 Watt	410mA		APMZ100C090UD41
	IBLL7/ IBLLPL7 - all CCTs	BU	150 Watt	680mA		APMZ150C135UD68
IBLL8/ IBLLPL8 - all CCTs	BU	150 Watt	930mA		APMZ150C135UD93	
High Lumen Model	Standard Temperature (-40 °C)					
	IBHLL1C/ IBHLPL1C, IBHLL1N/ IBHLPL1N, IBHLL1W/ IBHLPL1W, IBHLL1S/ IBHLPL1S, IBHLL1A/ IBHLPL1A	BU	100 Watt	530mA		APMS100C105UD53
		BH				APMS100C105HD53
	IBHLL2W/ IBHLPL2W	BU	150 Watt	650mA		APMS150C105UD65
		BH				APMS150C105HD65
	IBHLL2C/ IBHLPL2C, IBHLL2N/ IBHLPL2N, IBHLL2S/ IBHLPL2S, IBHLL2A/ IBHLPL2A	BU	150 Watt	680mA		APMS150C105UD68
		BH				APMS150C105HD68
	IBHLL3W/ IBHLPL3W	BU	150 Watt	890mA		APMS150C105UD89
		BH				APMS150C105HD89
	IBHLL3C/ IBHLPL3C, IBHLL3N/ IBHLPL3N, IBHLL3S/ IBHLPL3S, IBHLL3A/ IBHLPL3A	BU	150 Watt	915mA		APMS150C105UD91
		BH				APMS150C105HD91
	Cold Temperature (-55 °C)					
	IBHLL1/ IBHLPL1 - all CCTs	BU	100 Watt	530mA		APMZ100C090UD53
	IBHLL2/ IBHLPL2 - all CCTs	BU	150 Watt	680mA		APMZ150C135UD68
IBHLL3/ IBHLPL3 - all CCTs	BU	150 Watt	915mA		APMZ150C135UD93	
Luminaire Weights						
Description				Weight in kg (lbs)		
Low Lumen Model — IBLL6/IBLLPL6, IBLL7/IBLLPL7, IBLL8/IBLLPL8 Luminaires				9.8 (21.6)		
High Lumen Model — IBHLL1/IBHLPL1, IBHLL2/IBHLPL2, IBHLL3/IBHLPL3 Luminaires				16.1 (35.4)		

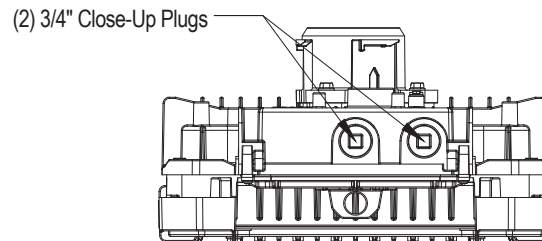
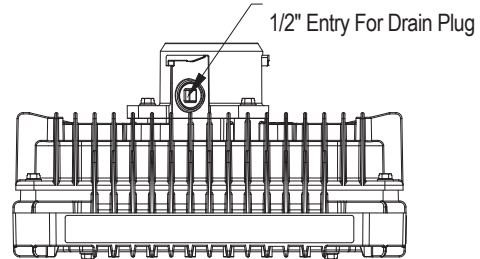
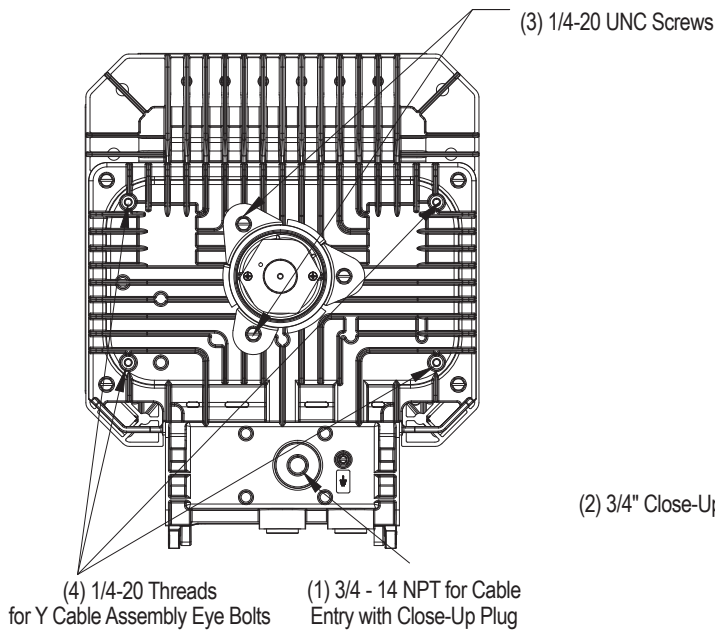
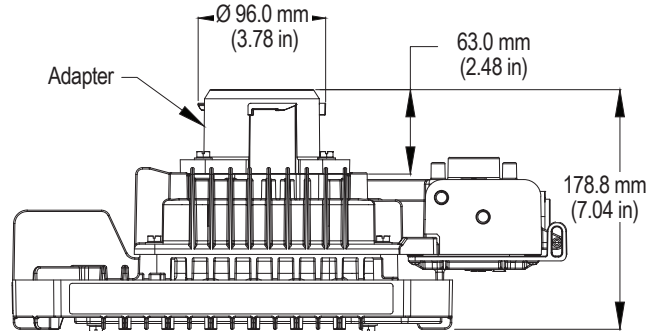
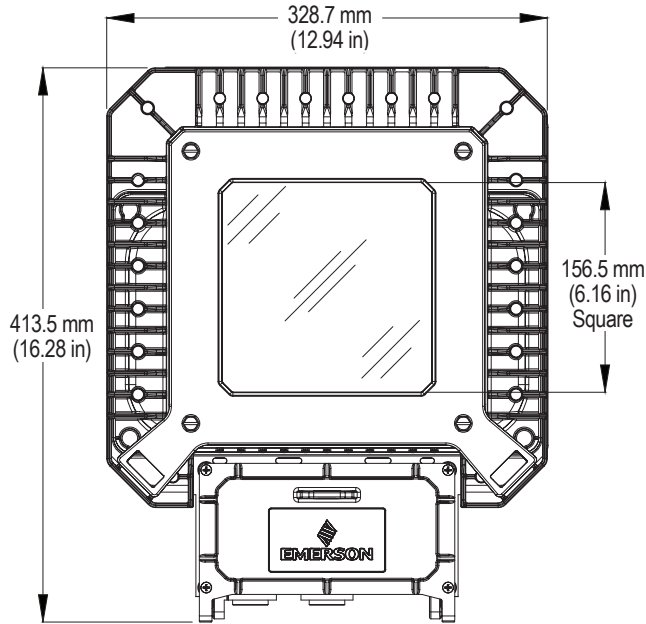


Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

IBLLP Dimensions in Millimeters (Inches) — High Bay — With Quick Mount Pendant System — Low Lumen Model



Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

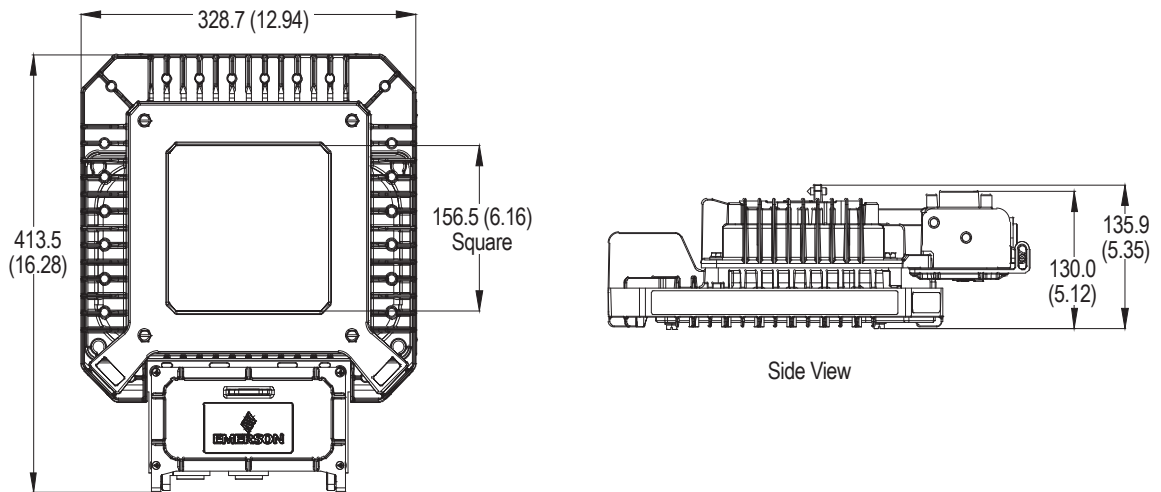
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

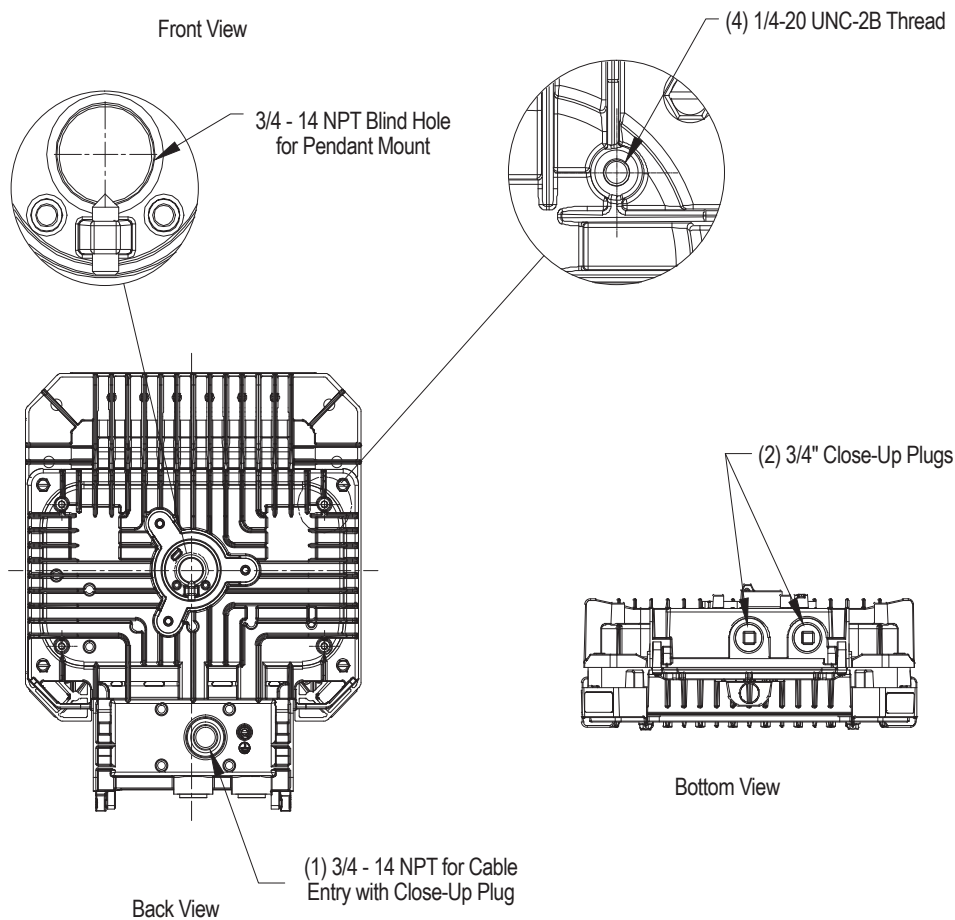
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

IBLL Dimensions in Millimeters (Inches) — High Bay — No Mount — Low Lumen Model



Front View

Side View



Back View

Bottom View

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay

Ordinary Locations

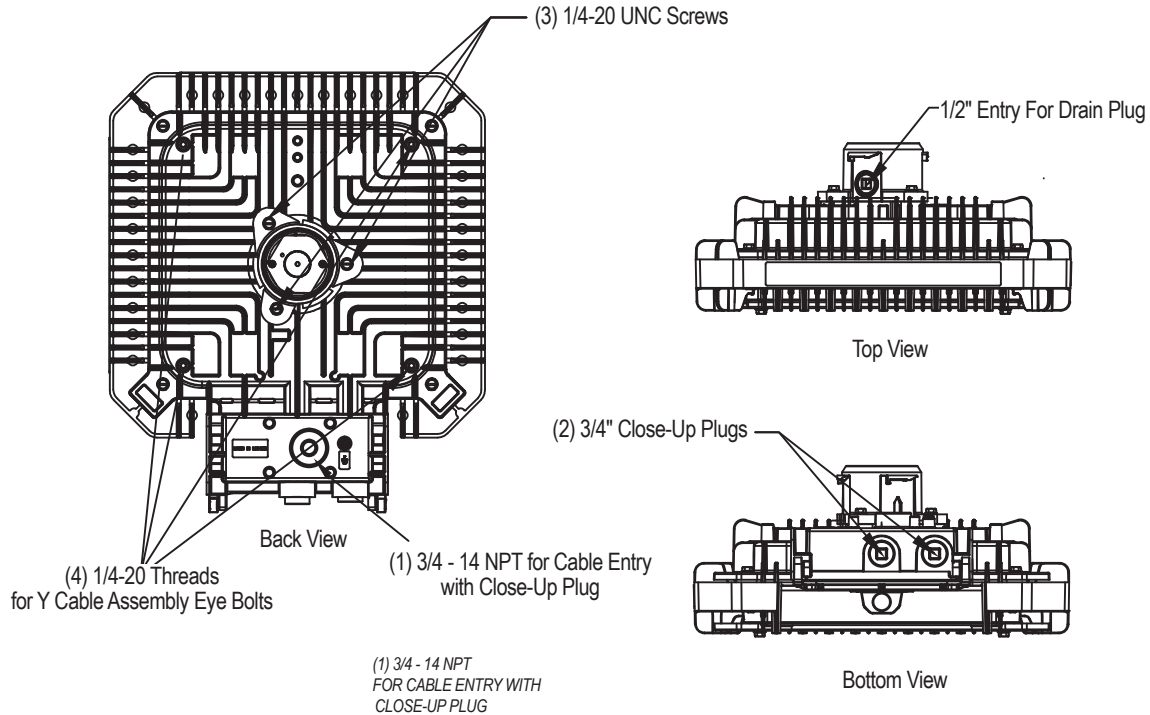
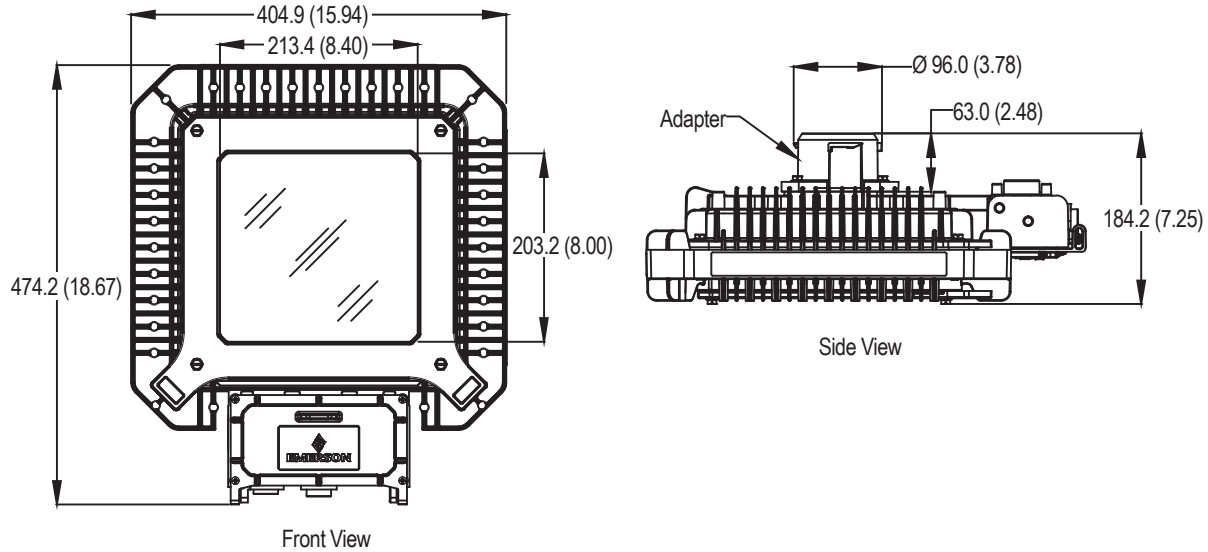
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

IBHLP Dimensions in Millimeters (Inches) — High Bay — With Quick Mount Pendant System — High Lumen Model

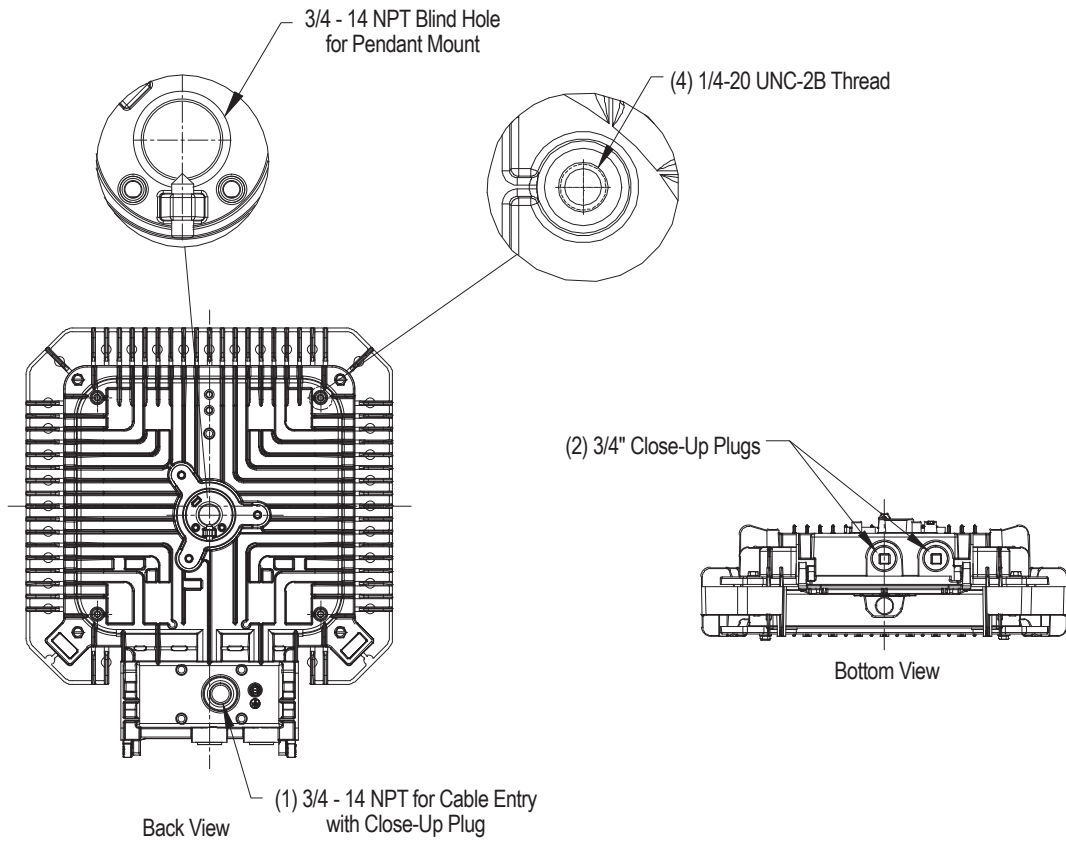
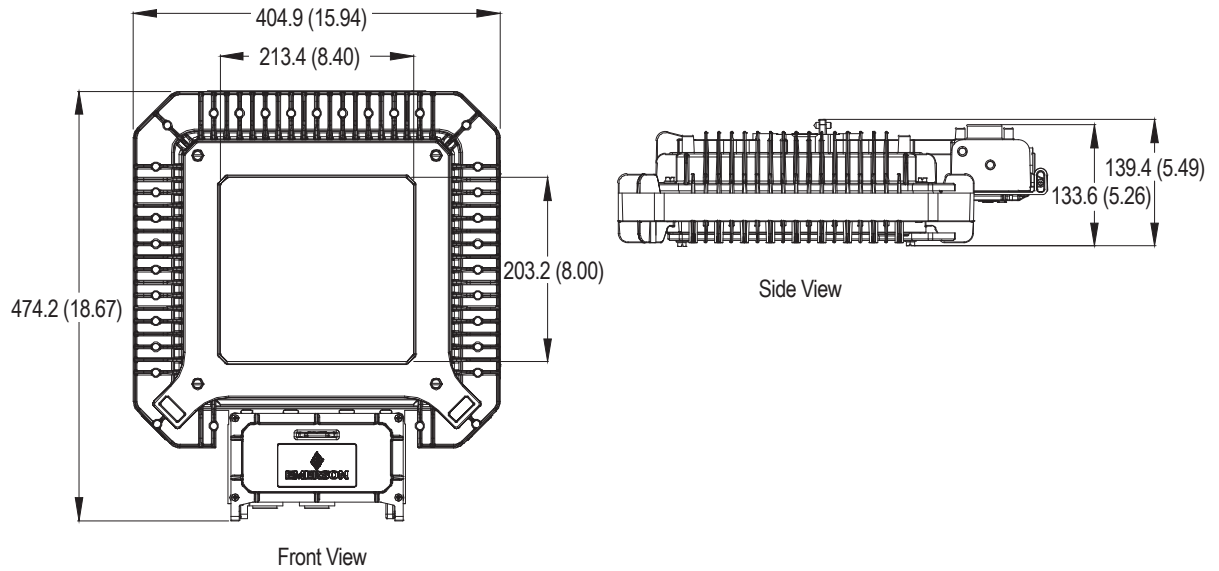


Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLLL and IBHLL models only)

IBHL Dimensions in Millimeters (Inches) — High Bay — No Mount — High Lumen Model



Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

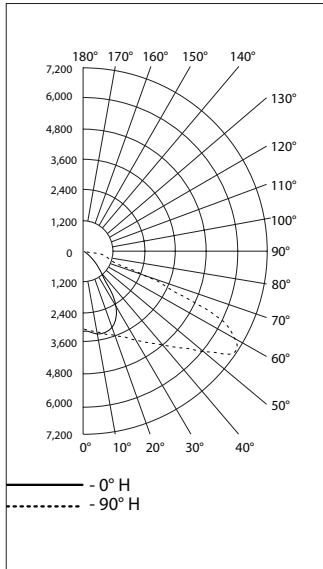
Photometric Data — DATA SHOWN IS ABSOLUTE

Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL6CGANBU

Luminaire Lumens 9,679

POLAR CANDELA DISTRIBUTION

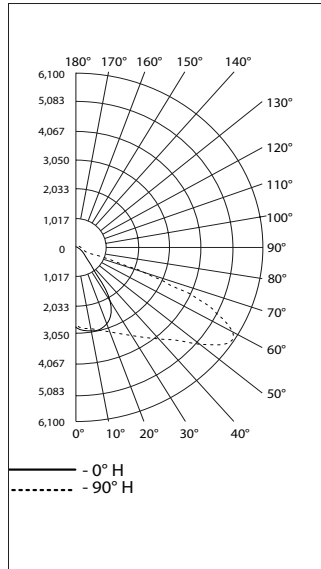


Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPL6WGANBU

Luminaire Lumens 8,432

POLAR CANDELA DISTRIBUTION

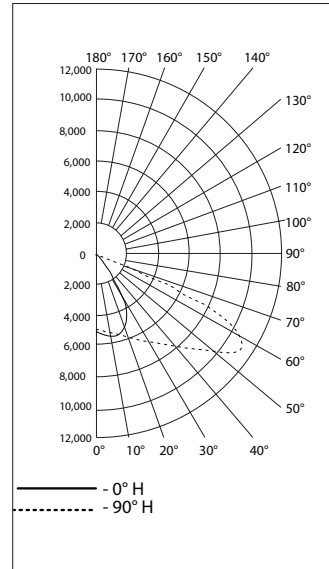


Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL7CGANBU

Luminaire Lumens 15,234

POLAR CANDELA DISTRIBUTION

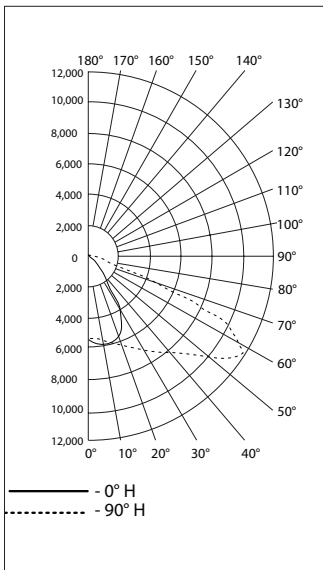


Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPL7WGANBU

Luminaire Lumens 12,579

POLAR CANDELA DISTRIBUTION

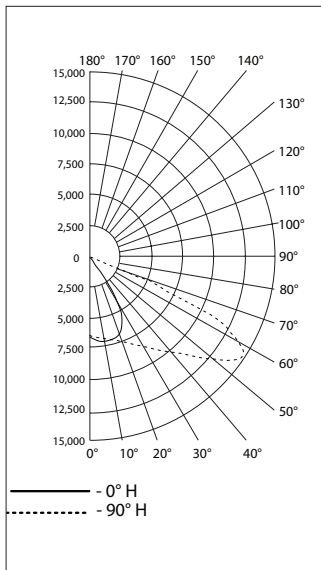


Aisle, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL8CGANBU

Luminaire Lumens 19,774

POLAR CANDELA DISTRIBUTION

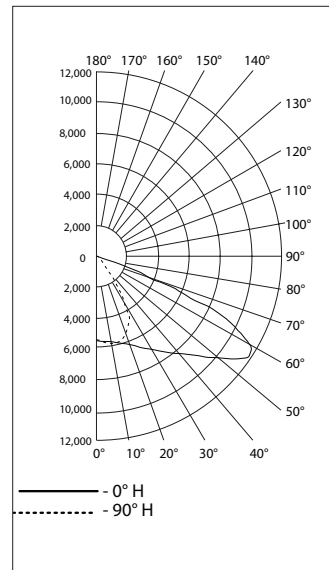


Aisle, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPL8WGANBU

Luminaire Lumens 16,350

POLAR CANDELA DISTRIBUTION



Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

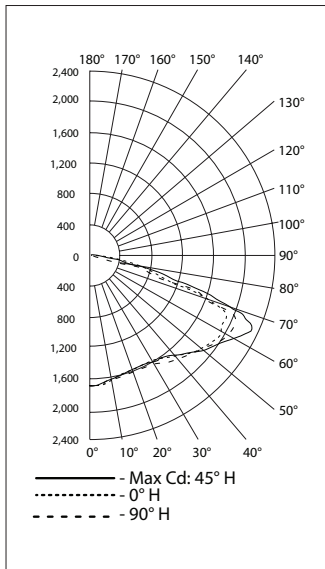
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL6CGWNB

Luminaire Lumens 8,682

POLAR CANDELA DISTRIBUTION

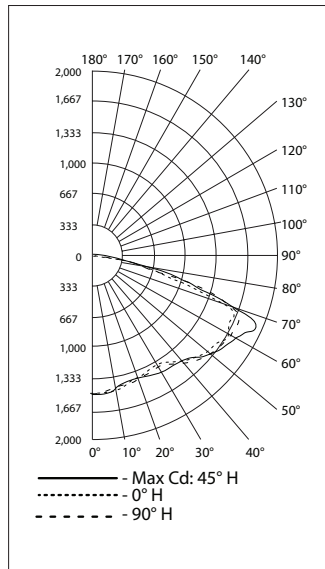


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPI6WGWNBU

Luminaire Lumens 7,506

POLAR CANDELA DISTRIBUTION

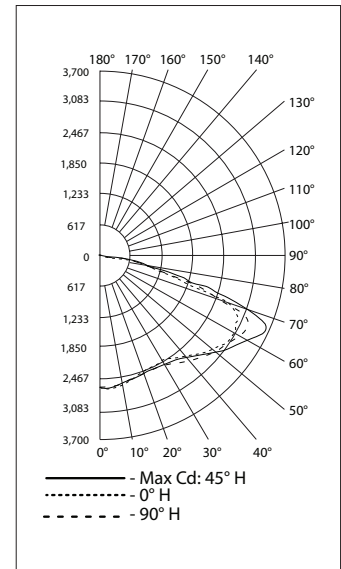


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL7CGWNB

Luminaire Lumens 13,608

POLAR CANDELA DISTRIBUTION

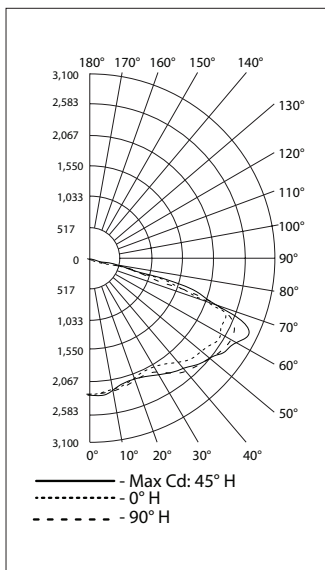


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPI7WGWNBU

Luminaire Lumens 11,351

POLAR CANDELA DISTRIBUTION

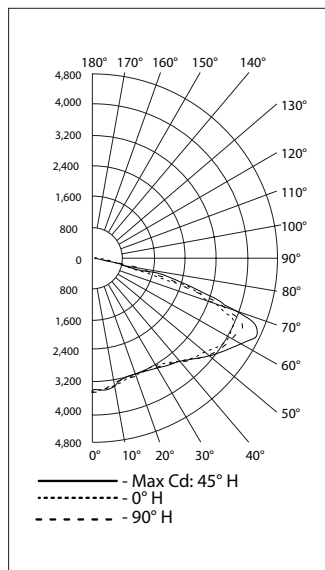


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBLLPL8CGWNB

Luminaire Lumens 17,710

POLAR CANDELA DISTRIBUTION

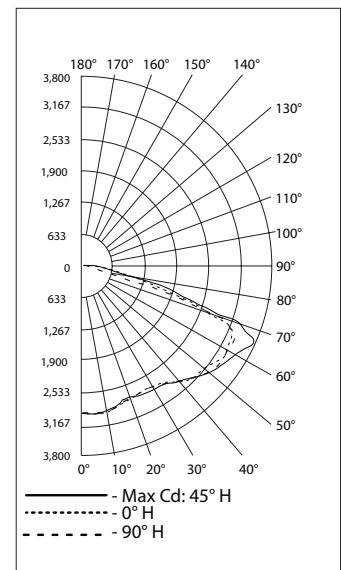


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBLLPL8WGWNBU

Luminaire Lumens 14,676

POLAR CANDELA DISTRIBUTION



Lighting

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
 IEC/CEB: IK08 | IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

Photometric Data — DATA SHOWN IS ABSOLUTE

Type V, Clear Glass, 3000K CCT
 REPORT NUMBER: IBLLPL6CGMNBU
 Luminaire Lumens 9,758

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: IBLLPL7CGMNBU
 Luminaire Lumens 15,392

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: IBLLPL8CGMNBU
 Luminaire Lumens 20,097

POLAR CANDELA DISTRIBUTION

Type V, Frosted Glass, 5000K CCT
 REPORT NUMBER: IBLLPL6CFMNBU
 Luminaire Lumens 8,209

POLAR CANDELA DISTRIBUTION

Type V, Frosted Glass, 5000K CCT
 REPORT NUMBER: IBLLPL7CFMNBU
 Luminaire Lumens 12,955

POLAR CANDELA DISTRIBUTION

Type V, Clear Glass, 5000K CCT
 REPORT NUMBER: IBLLPL8CFMNBU
 Luminaire Lumens 16,711

POLAR CANDELA DISTRIBUTION

A278 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

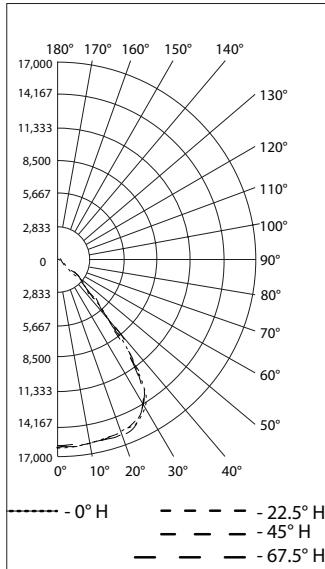
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL1CGNNBU

Luminaire Lumens 24,459

POLAR CANDELA DISTRIBUTION

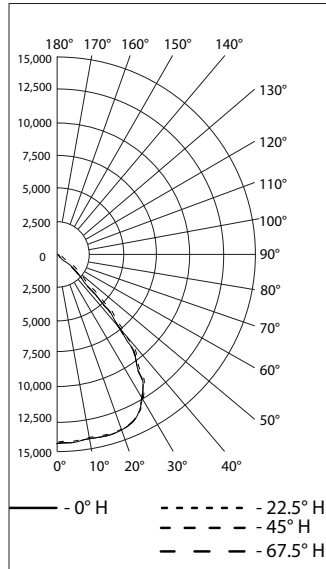


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL1WGNNBU

Luminaire Lumens 21,648

POLAR CANDELA DISTRIBUTION

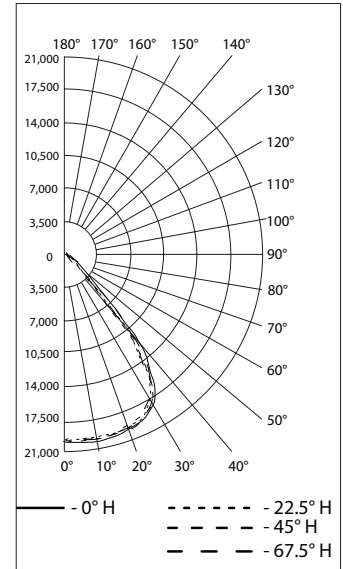


Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL2CGNNBU

Luminaire Lumens 30,396

POLAR CANDELA DISTRIBUTION

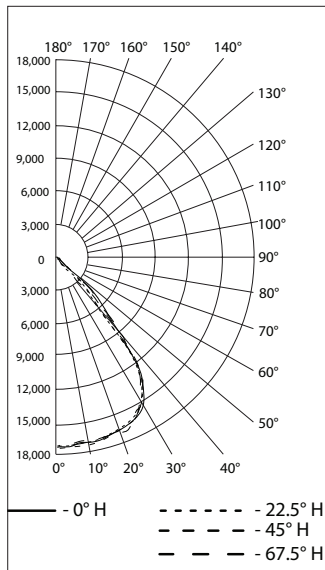


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL2WGNNBU

Luminaire Lumens 25,785

POLAR CANDELA DISTRIBUTION

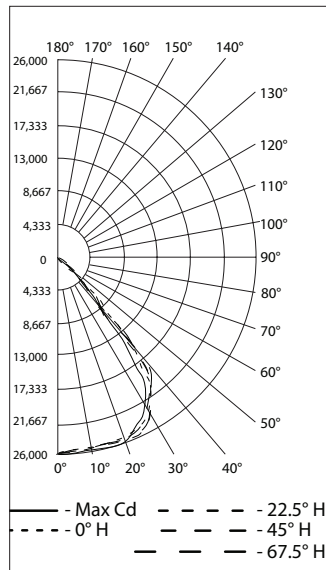


Type V Narrow, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL3CGNNBU

Luminaire Lumens 39,041

POLAR CANDELA DISTRIBUTION

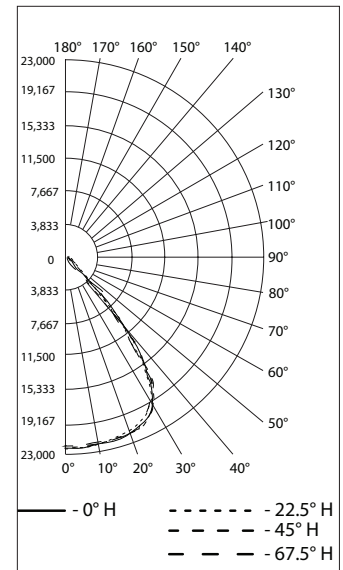


Type V Narrow, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL3WGNNBU

Luminaire Lumens 33,341

POLAR CANDELA DISTRIBUTION



Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHLL models only)

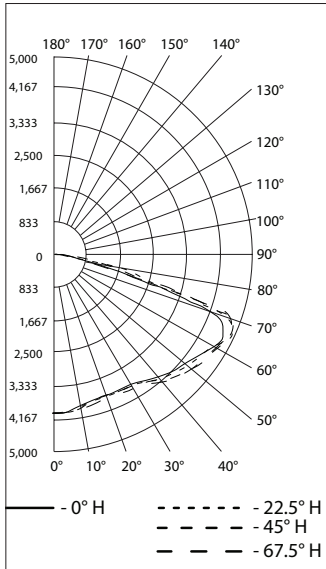
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL1CGWNBU

Luminaire Lumens 20,665

POLAR CANDELA DISTRIBUTION

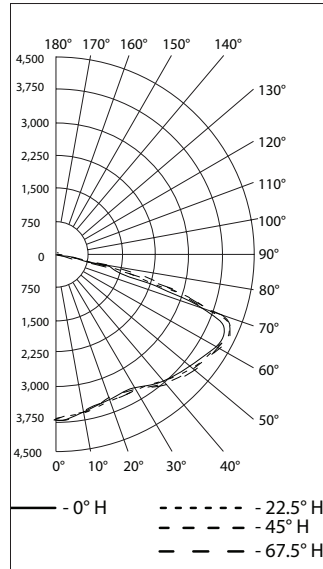


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL1WGWNU

Luminaire Lumens 18,689

POLAR CANDELA DISTRIBUTION

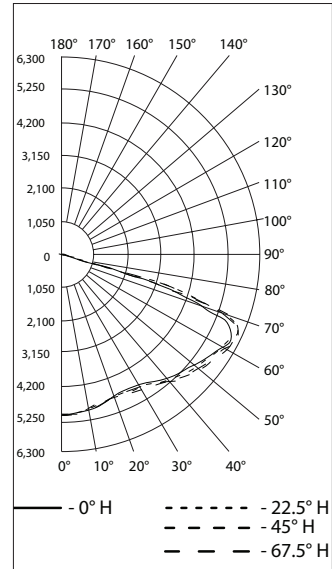


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL2CGWNBU

Luminaire Lumens 25,896

POLAR CANDELA DISTRIBUTION

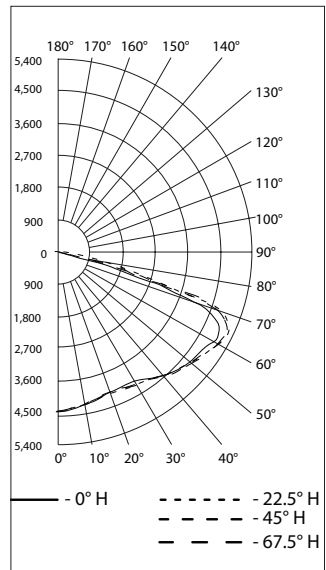


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL2WGWNU

Luminaire Lumens 22,278

POLAR CANDELA DISTRIBUTION

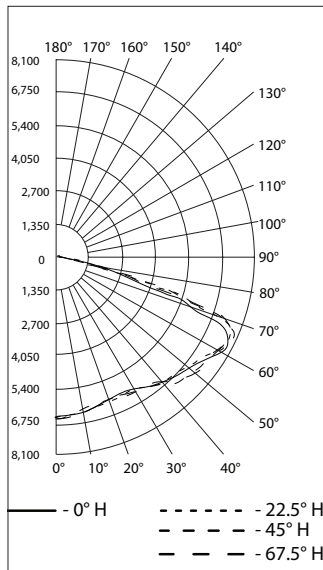


Type V Wide, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL3CGWNBU

Luminaire Lumens 33,374

POLAR CANDELA DISTRIBUTION

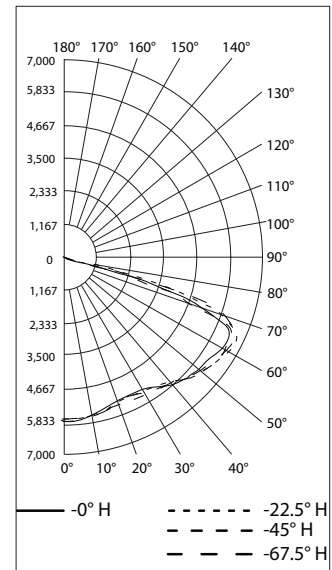


Type V Wide, Clear Glass, 3000K CCT

REPORT NUMBER: IBHLPL3WGWNU

Luminaire Lumens 28,864

POLAR CANDELA DISTRIBUTION



Industrial Baymaster™ and High Lumen LED Series Luminaires

High Bay
Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration (IBLL and IBHL models only)

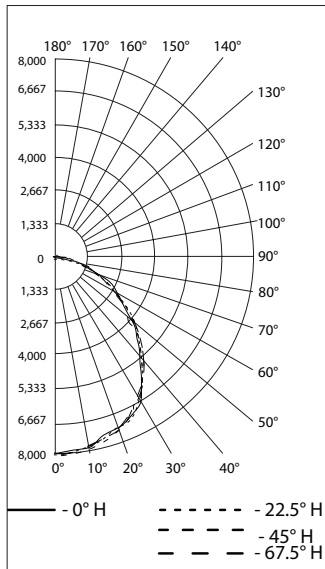
Photometric Data — DATA SHOWN IS ABSOLUTE

Type V Medium, Frosted Glass, 5000K CCT

REPORT NUMBER: IBHLPL1CFMNBU

Luminaire Lumens 20,801

POLAR CANDELA DISTRIBUTION

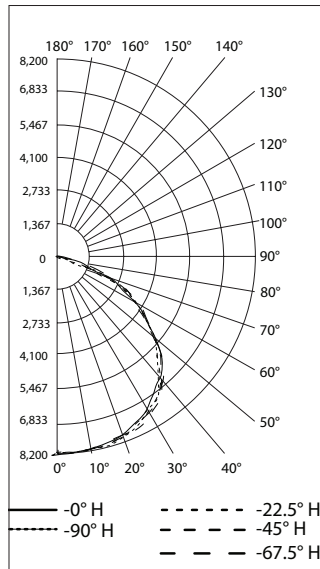


Type V Medium, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL1CGMNBU

Luminaire Lumens 24,352

POLAR CANDELA DISTRIBUTION

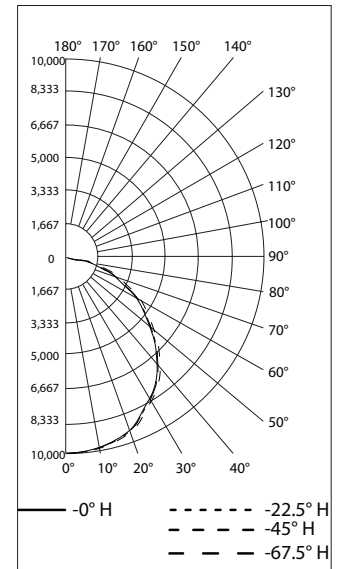


Type V Medium, Frosted Glass, 5000K CCT

REPORT NUMBER: IBHLPL2CFMNBU

Luminaire Lumens 25,979

POLAR CANDELA DISTRIBUTION

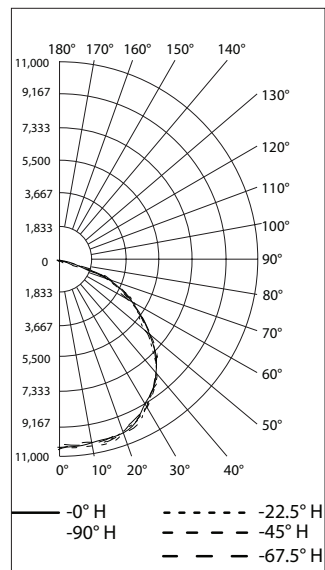


Type V Medium, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL2CGMNBU

Luminaire Lumens 30,375

POLAR CANDELA DISTRIBUTION

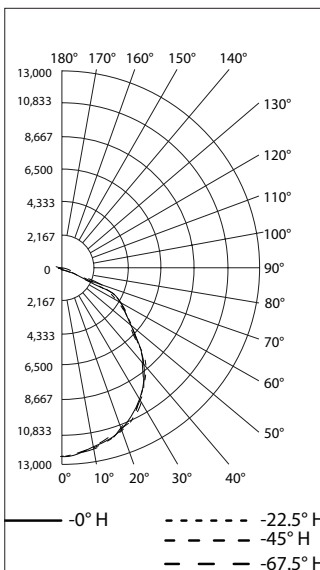


Type V, Frosted Glass, 5000K CCT

REPORT NUMBER: IBHLPL3CFMNBU

Luminaire Lumens 32,107

POLAR CANDELA DISTRIBUTION

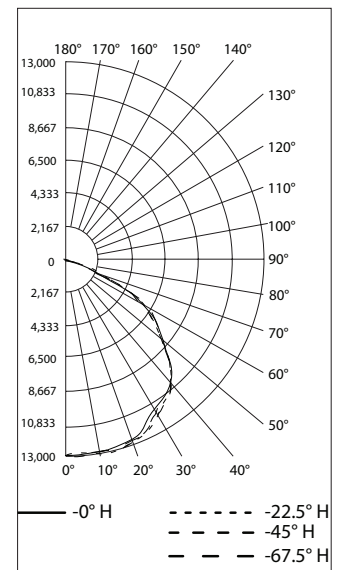


Type V, Clear Glass, 5000K CCT

REPORT NUMBER: IBHLPL3CGMNBU

Luminaire Lumens 37,574

POLAR CANDELA DISTRIBUTION



IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Applications

- Powerful, efficient weatherproof lighting for applications such as:
 - Steel Production Plants
 - Power Generation Facilities
 - Foundries
 - Cement, Stone and Sand Plants
 - Pulp and Paper Mills
 - Ship Building and Shipping Ports
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem
- High ceilings of 15 meters (50 feet) to greater than 30 meters (100 feet).
- IP66, Type 4X, marine and wet locations.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
- 40 °C to +75 °C (-40 °F to +167 °F) ambient temperature range
- Globally rated luminaires with all applicable certification labels for NEC, CEC, IECEE CB, CE and UKCA environments. See Certifications and Compliances for details.

Features

- Four lumen outputs provide up to 90,000 lumens.

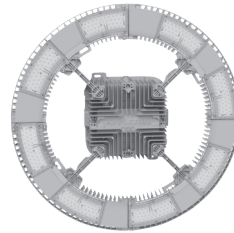
Nominal Lumens ①	Model
50,000	IHC*5
60,000	IHC*6
75,000	IHC*7
90,000	IHC*9

- Choice of four optics (Very Narrow, Narrow, Medium and Very Wide) for optimal light distribution in a variety of applications.
- Luminaire can be ordered with Cable or Bracket mounting accessories.
- Separate field wiring compartment with screw terminal block for easy and secure connection (can accept 0.14 - 6 mm² (26 - 10 AWG) wire).
- Four 3/4 in. NPT side entries provided with three close-up plugs. Optional M20 metric adapters available.
- Choice of color temperature (CCT): 5000K cool white, 4000K neutral white, or 3000K warm white.
- L70 Ratings:

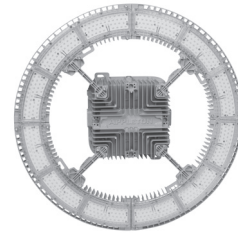
+25 °C (+77 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 173,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 163,000 hours
- Rugged housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- Thermal shock and impact resistant clear polycarbonate lens.
- Standard 8 kV/4 kA surge protection. Optional 10 kV/5 kA and 20 kV/10 kA additional surge protection available.
- Captive fasteners secure driver compartment cover.
- 0-10 Vdc Dimming capable.
- Field replaceable LED drivers.
- Photometric data and electronic drawings available upon request.

Warranty ②

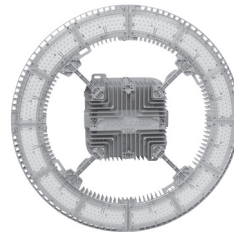
- 10 year standard warranty.



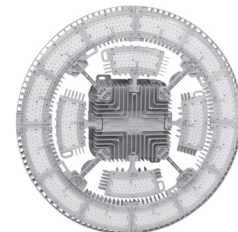
IHC*5 - 50,000 Lumens



IHC*6 - 60,000 Lumens



IHC*7 - 75,000 Lumens



IHC*9 - 90,000 Lumens

Controls

- Dimming:
 - Luminaire has a two-wire, 0-10Vdc variable dimming input port for controlling the output from 10% to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- Pre-wired version with 3 meter (10 foot) cord available.
- 10 kV/5 kA and 20 kV/10 kA Surge Protection.
- Photocontrol socket available for outdoor installations.
- 2.4 meter (8 foot) safety cable, purchase separately.

Standard Materials

- Housing, LED heatsink, and driver compartment cover: copperfree (4/10 of 1% max.) aluminum
- Bracket: zinc plated steel
- Gaskets: silicone rubber
- Exterior hardware: stainless steel
- Close up plugs: aluminum
- Cable mount components: stainless steel
- Safety cable: stainless steel

① Nominal lumen value for 5000K, Medium Beam, with clear polycarbonate lens. Refer to Lumen Output Table for details.

② For warranty details go to www.appleton.emerson.com.

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight

Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Standard Finishes

- Housing, LED heatsink, driver compartment cover and bracket: baked gray epoxy powder coat finish, electrostatically applied for complete uniform protection

NEC/CEC Certifications and Compliances

- UL Standards: UL 1598; UL 1598A; UL 8750; UL 50; UL 50E
- CSA Standards: CSA C22.2 No. 250.0; CSA C22.2 No. 250.13; CSA C22.2 No. 94.1; CSA C22.2 No. 94.2
- cULus Certificate: E479986
- Vibration Rating: 3G, 2 hours, 3 axis at first mode resonant frequency

IECEE CB Certificates and Compliances

- IEC 60529, IEC 60598-1, IEC 60598-2-1, and IEC 60598-2-5
- IECEE CB Certificates: JPTUV-129388, JPTUV-129481, JPTUV-131820, JPTUV-131824
- Photobiological Safety, IEC 62778 and IEC 62471: RG01 for all models when positioned at a distance of more than 6.67 m (21.88 ft) so that prolonged staring into the luminaire is not expected

CE and UKCA Marking

- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

ABS Certifications:

- IHC: 21-2175976-PDA

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Patents

- United States Patent No. : US 11,940,122 B2
- Filed March 21, 2022 and Issued March 26, 2024

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

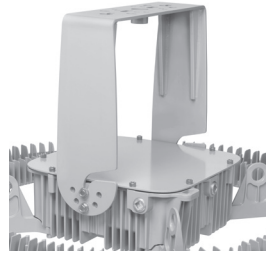
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Illustrated Features



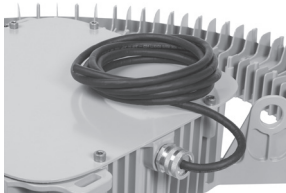
Cable Mounting

Labor saving mounting means allows for safe and secure attachment to ceiling structure for typical high bay installations. Simply clip stainless steel locking carabiner and cable assembly to four fixture connection points. Then combine four opposite looped ends of stainless steel cable within additional corrosion resistant locking carabiner to create a single attachment point above fixture.



Bracket Mounting

Sturdy bracket mounting is the best option for flush mounting the fixture to a ceiling or underneath a crane. The bracket can also be mounted to a wall, column or floor for floodlighting applications. Fixture can be adjusted to 0°, 15°, 30° and 45° set points and secured in place with bolt and lock washer combination. The bracket and fixture stand up to heavy vibrations with a 3G rating. The top of the bracket has multiple hole patterns to retrofit to competitor's mounting hardware. Bracket cannot be attached to a poletop slip-fitter.



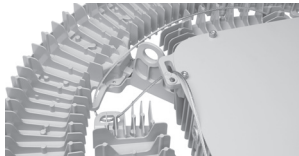
Pre-Wired Option

10-foot-long, 600V rated, Type SOOW listed cord and weather resistant cord grip allow for quick electrical connections. There is no need to open the wiring compartment in the field. Terminate cable into electrical box and hardwire fixture or field install a plug end. Standard 3-conductor version available for power connections. 5-conductor version available for power plus dimming wiring.



3/4 Inch NPT Hub with Set-screw

Easily attach an Appleton FHLM-75 Hanger Loop or rigid conduit pendant stem and secure in place with set-screw.



Safety Cable

2.44 meter (8 foot) stainless steel safety cable is threaded through the cast secondary retention points in the housing and LED heatsinks for additional safety.



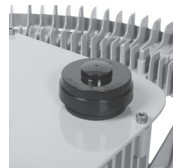
U-bolt Attachment to 2" Rigid Conduit

Secure bracket to conduit with properly sized u-bolts, purchased separately.



Driver Assembly

Replaceable drivers are suitable for use in wet locations and offer standard 8 kV surge and over temperature protection.



5 Pin NEMA Socket

Receptacle allows for easy attachment of photocontrol (purchase separately) or other smart lighting device. Dimming capable at 120-480 Vac. Ships with shorting cap.



M20 Metric Adapter

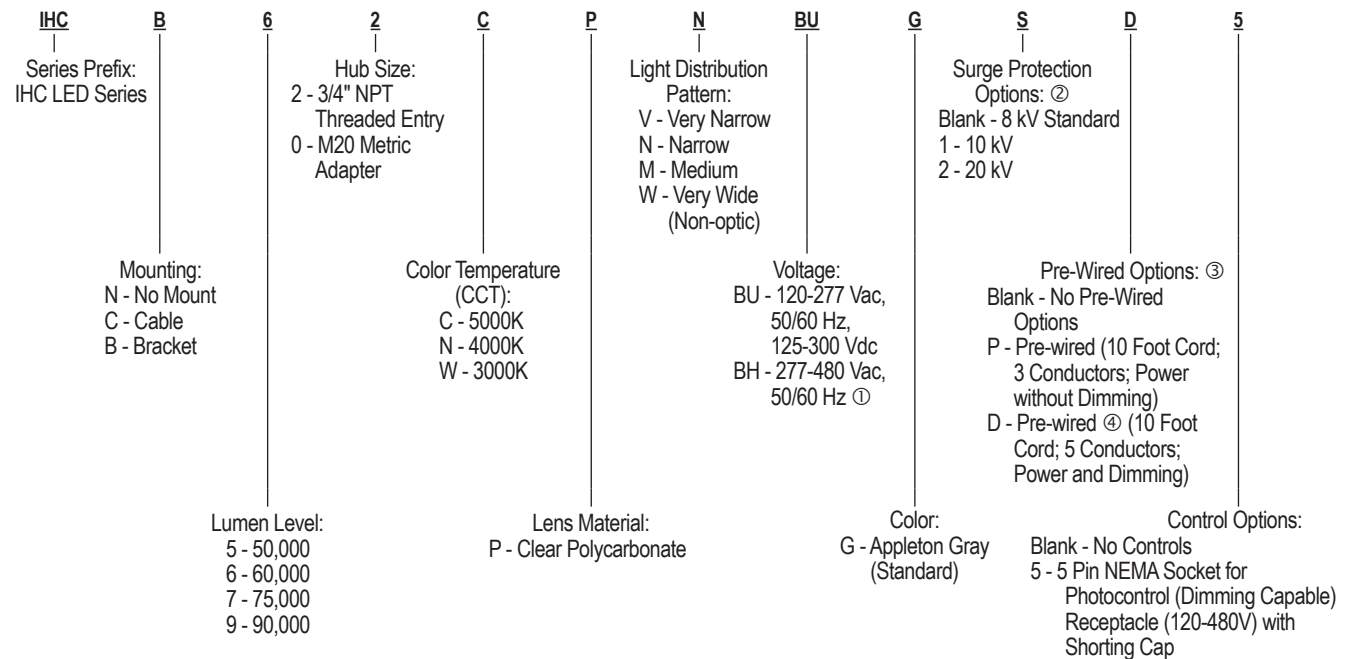
Optional adapter may be ordered. Ships with one adapter. Three remaining 3/4" NPT entries have aluminum close up plugs installed.

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
 IECCE CB: IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Order Using Catalog Numbering Guide — Industrial IHC LED Series Luminaires



Lumen Output (Efficacy) ⑤

Model	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Polycarbonate													
IHC*5	Very Narrow	3000K	80	47,100	129	4000K	80	48,300	133	5000K	70	50,900	140
	Narrow			46,900	129			48,100	132			50,800	140
	Medium			47,100	129			48,300	133			50,900	140
	Very Wide (Non-optic)			43,700	120			44,700	123			45,900	126
IHC*6	Very Narrow	3000K	80	56,500	135	4000K	80	57,900	139	5000K	70	61,000	146
	Narrow			56,200	135			57,600	138			60,800	146
	Medium			56,500	135			57,900	139			61,000	146
	Very Wide (Non-optic)			52,600	126			54,000	129			55,400	133
IHC*7	Very Narrow	3000K	80	70,000	128	4000K	80	71,800	132	5000K	70	75,700	139
	Narrow			69,800	128			71,500	131			75,500	139
	Medium			70,000	128			71,800	132			75,500	139
	Very Wide (Non-optic)			65,500	120			67,100	123			68,800	126
IHC*9	Very Narrow	3000K	80	84,000	133	4000K	80	86,100	136	5000K	70	91,100	144
	Narrow			83,700	133			85,800	136			91,000	144
	Medium			84,000	133			86,100	136			90,800	144
	Very Wide (Non-optic)			78,900	125			81,000	128			82,900	131

① Select BH for 277 Vac installations in facilities with power quality concerns. BH option designed with high ground fault protection and protects against dropped neutral occurrences.
 ② Additional Surge Protection Certifications:
 10kV BU: NEC, CEC, CE/UKCA
 10kV BH: NEC, CEC
 20kV BU: NEC, CEC, CE/UKCA
 20kV BH: NEC, CEC
 ③ Pre-Wired Options only available per cULus Certification. Options not available per IECCE Certification.
 ④ Pre-Wired Option "D" cannot be selected with Control Option "5".
 ⑤ All lumen values are typical (tolerance +/-10%).

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
IHC*5	120 Vac	360	3.00	> 0.9	< 20%
	277 Vac	350	1.36		
	125 Vdc	360	2.86	N/A	N/A
	300 Vdc	350	1.16		
	277 Vac	360	1.32	> 0.9	< 20%
	347 Vac	360	1.06		
	480 Vac	360	0.82		
IHC*6	120 Vac	420	3.61	> 0.9	< 20%
	277 Vac	400	1.54		
	125 Vdc	420	3.32	N/A	N/A
	300 Vdc	400	1.34		
	277 Vac	410	1.50	> 0.9	< 20%
	347 Vac	410	1.20		
	480 Vac	410	0.91		
IHC*7	120 Vac	550	4.71	> 0.9	< 20%
	277 Vac	530	2.03		
	125 Vdc	540	4.29	N/A	N/A
	300 Vdc	520	1.74		
	277 Vac	540	1.98	> 0.9	< 20%
	347 Vac	540	1.35		
	480 Vac	530	1.22		
IHC*9	120 Vac	640	5.36	> 0.9	< 20%
	277 Vac	620	2.23		
	125 Vdc	640	5.11	N/A	N/A
	300 Vdc	620	2.07		
	277 Vac	630	2.30	> 0.9	< 20%
	347 Vac	620	0.98		
	480 Vac	620	1.36		

Maximum Ambient Temperature Rating per Driver and Voltage Range

Model	Lumen Level	BU Driver		
		120 to 208 Vac — 125 to 300 Vdc	220 to 277 Vac	BH Driver 277 to 480 Vac
IHC*5	50,000	75 °C (167 °F)	75 °C (167 °F)	75 °C (167 °F)
IHC*6	60,000	70 °C (158 °F)	75 °C (167 °F)	70 °C (158 °F)
IHC*7	75,000	70 °C (158 °F)	75 °C (167 °F)	70 °C (158 °F)
IHC*9	90,000	65 °C (149 °F)	70 °C (158 °F)	65 °C (149 °F)

Note: Surge Protection: Integral 8 kV surge protection. Option for up to 10 kV and 20 kV surge protection. See Catalog Numbering Guide for certification restrictions.

① All values are typical (tolerance +/-10%).

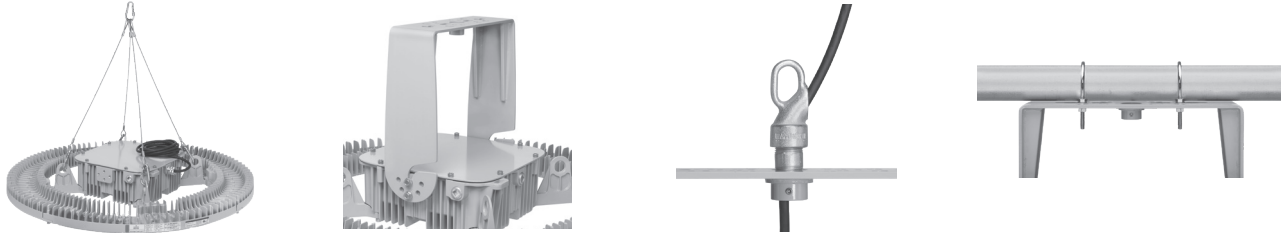
IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight Ordinary Locations

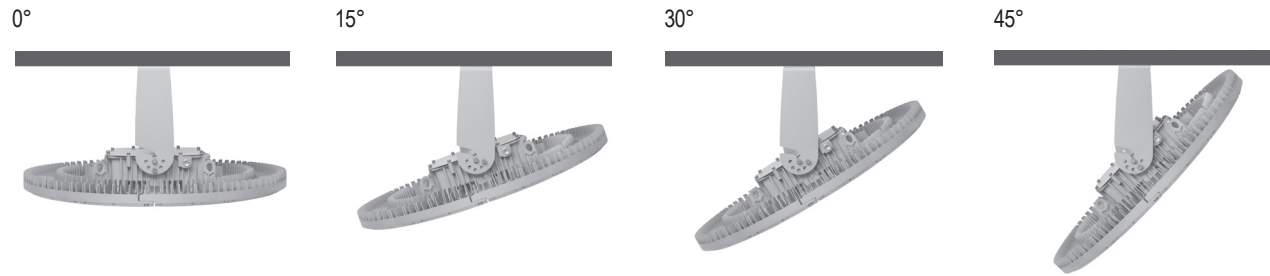
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
 IECEE CB: IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Mounting Options

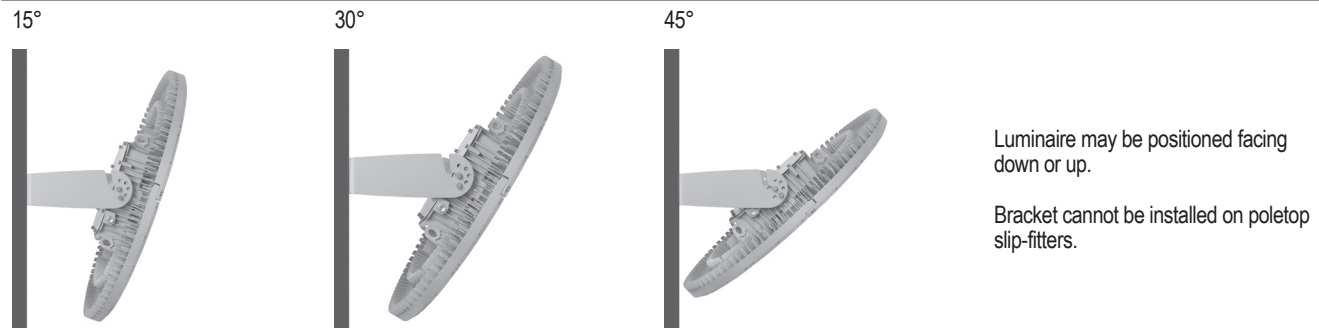
Cable — Length: 550 mm (21.65 in.) Bracket — Length: 335 mm (13.2 in.) Threaded hook (3/4 in.) and cord Pipe (2 in. Rigid Metal Conduit)



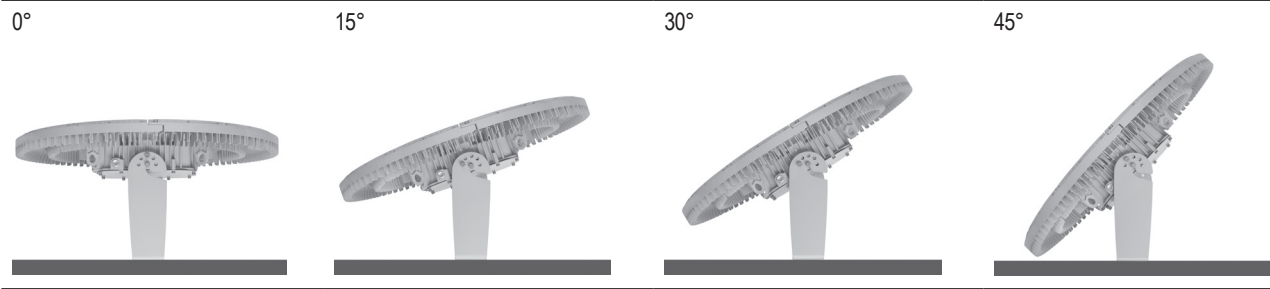
Bracket Mounting Angles — Ceiling Mounted



Bracket Mounting Angles — Wall Mounted



Bracket Mounting Angles — Floor Mounted



IHC LED Series Luminaires

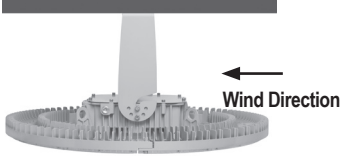
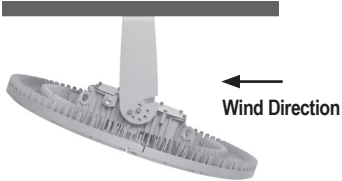
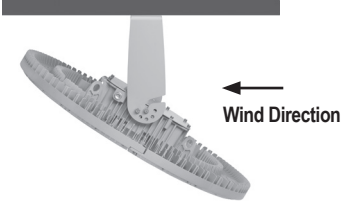
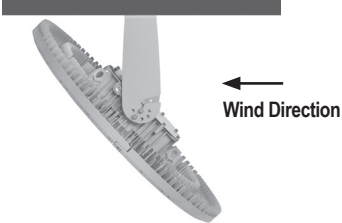
High Lumen Output High Bay and Floodlight
Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

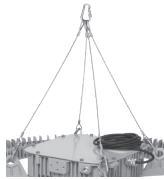




Luminaire Angle		Frontal Projected Area (FPA) ft ²	Drag Coefficient (DC)	Effective Projected Area (EPA) = FPA*DC ft ²
0°		1.73	1.2	2.08
15°		2.67	1.2	3.21
30°		4.57	1.2	5.48
45°		5.40	1.2	6.48

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Accessories and Replacement Parts

Description	Weight in kg (lb)	Catalog Number																																																						
IHC LED Cable Mounting Assembly																																																								
 <p>Assembly consists of: - (4) 550 mm (21.65 in.) stainless steel cable and locking carabiner combinations - (1) stainless steel locking carabiner Cable and carabiner combo secure to four luminaire attachment points. Opposite crimped looped ends of cables combine within remaining carabiner for attachment to ceiling structure</p>	0.5 (1.1)	IHCABLE																																																						
IHC LED Bracket Mounting Kit (Hardware Included)																																																								
 <p>Kit includes: - (1) 335 mm (13.2 in.) long bracket - (4) 3/8-16 X 7/8 hex head stainless steel bolt and lock washer combos</p>	7.0 (15.6)	IHCBRKTL																																																						
Safety Cable																																																								
 <p>Stainless steel - 1.22 m (4 ft)</p>	0.2 (0.4)	LEDSC																																																						
<p>Stainless steel - 2.44 m (8 ft)</p>	0.4 (0.8)	LEDSC8																																																						
Safety Support Hooks																																																								
 <p>3/4 inch Male Hanger Loop 5/8 inch diameter wireway 75.4 kg (166 lbs.) weight rating</p>	0.2 (0.5)	FHLM-75																																																						
Replacement Drivers																																																								
	<table border="1"> <thead> <tr> <th>Model</th> <th>Voltage</th> <th>Driver Wattage</th> <th>Constant Current Setting</th> <th>Number of Drivers per Luminaire</th> <th>Catalog Number</th> </tr> </thead> <tbody> <tr> <td>IHC*5</td> <td>BU</td> <td>240 Watt</td> <td>976mA</td> <td>2</td> <td>APMS240UD976</td> </tr> <tr> <td>IHC*5</td> <td>BH</td> <td>240 Watt</td> <td>976mA</td> <td>2</td> <td>APMS240HD976</td> </tr> <tr> <td>IHC*6</td> <td>BU</td> <td>240 Watt</td> <td>1152mA</td> <td>2</td> <td>APMS240UD1152</td> </tr> <tr> <td>IHC*6</td> <td>BH</td> <td>240 Watt</td> <td>1152mA</td> <td>2</td> <td>APMS240HD1152</td> </tr> <tr> <td>IHC*7</td> <td>BU</td> <td>240 Watt</td> <td>976mA</td> <td>3</td> <td>APMS240UD976</td> </tr> <tr> <td>IHC*7</td> <td>BH</td> <td>240 Watt</td> <td>976mA</td> <td>3</td> <td>APMS240HD976</td> </tr> <tr> <td>IHC*9</td> <td>BU</td> <td>240 Watt</td> <td>1152mA</td> <td>3</td> <td>APMS240UD1152</td> </tr> <tr> <td>IHC*9</td> <td>BH</td> <td>240 Watt</td> <td>1152mA</td> <td>3</td> <td>APMS240HD1152</td> </tr> </tbody> </table>	Model	Voltage	Driver Wattage	Constant Current Setting	Number of Drivers per Luminaire	Catalog Number	IHC*5	BU	240 Watt	976mA	2	APMS240UD976	IHC*5	BH	240 Watt	976mA	2	APMS240HD976	IHC*6	BU	240 Watt	1152mA	2	APMS240UD1152	IHC*6	BH	240 Watt	1152mA	2	APMS240HD1152	IHC*7	BU	240 Watt	976mA	3	APMS240UD976	IHC*7	BH	240 Watt	976mA	3	APMS240HD976	IHC*9	BU	240 Watt	1152mA	3	APMS240UD1152	IHC*9	BH	240 Watt	1152mA	3	APMS240HD1152	
Model	Voltage	Driver Wattage	Constant Current Setting	Number of Drivers per Luminaire	Catalog Number																																																			
IHC*5	BU	240 Watt	976mA	2	APMS240UD976																																																			
IHC*5	BH	240 Watt	976mA	2	APMS240HD976																																																			
IHC*6	BU	240 Watt	1152mA	2	APMS240UD1152																																																			
IHC*6	BH	240 Watt	1152mA	2	APMS240HD1152																																																			
IHC*7	BU	240 Watt	976mA	3	APMS240UD976																																																			
IHC*7	BH	240 Watt	976mA	3	APMS240HD976																																																			
IHC*9	BU	240 Watt	1152mA	3	APMS240UD1152																																																			
IHC*9	BH	240 Watt	1152mA	3	APMS240HD1152																																																			

IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

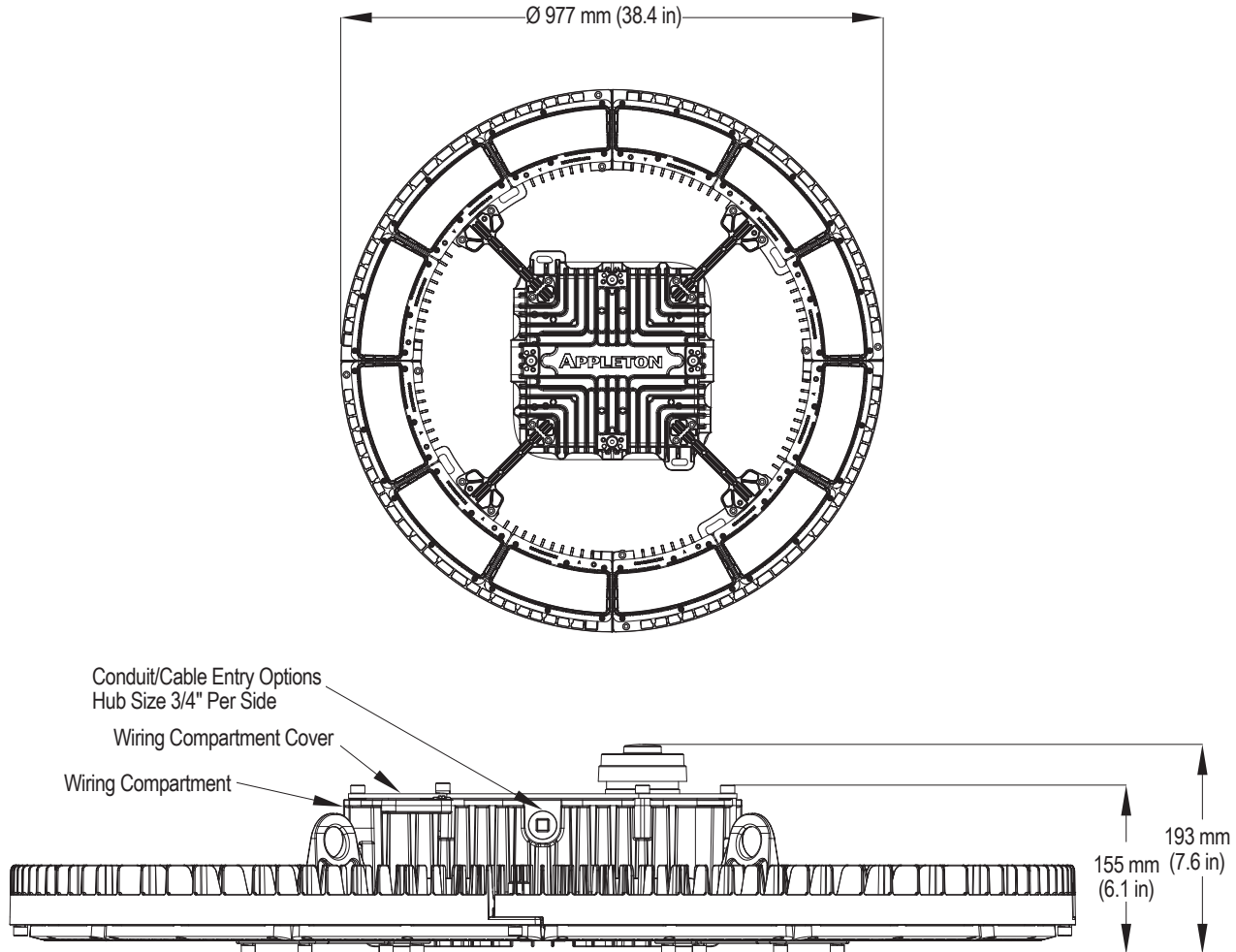
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations

IECEE CB: IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Dimensions in Millimeters (Inches)



Luminaire Specifications ①

Model	LED Arrays	Drivers	Dimensions Without Bracket or NEMA Socket	Weight Without Bracket ①
IHC*5	8	2	977 x 155 mm (38.4 in. x 6.1 in.)	26.0 kg (57.4 lbs)
IHC*6	12	2	977 x 155 mm (38.4 in. x 6.1 in.)	26.9 kg (59.3 lbs)
IHC*7	12	3	977 x 155 mm (38.4 in. x 6.1 in.)	28.2 kg (62.2 lbs)
IHC*9	16	3	977 x 155 mm (38.4 in. x 6.1 in.)	32.7 kg (72 lbs)

① Fixture weight is for No Mount option, Very Wide (Non-optic) light distribution, BU driver, and no pre-wired, surge and NEMA socket options.

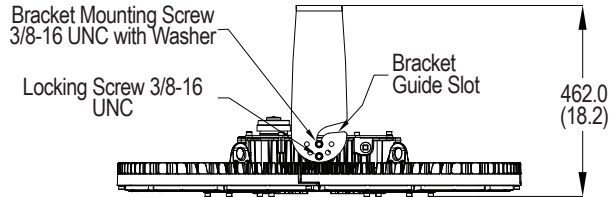
IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight Ordinary Locations

NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
 IEC/CEB: IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

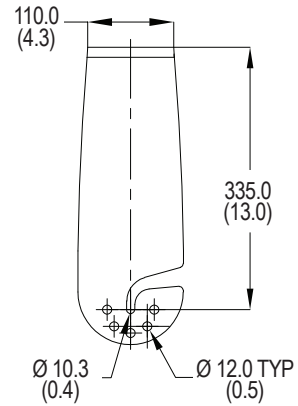
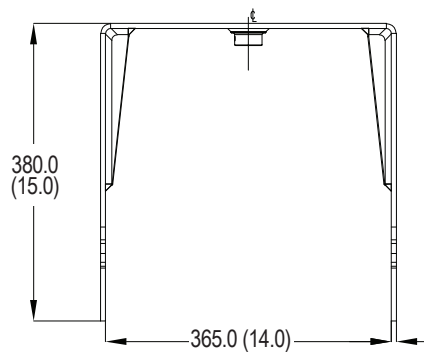
Mounting Bracket — Dimensions in Millimeters (Inches)

Bracket for 0°, 15°, 30°, and 45° Orientation with Respect to Bracket Mounting Screw

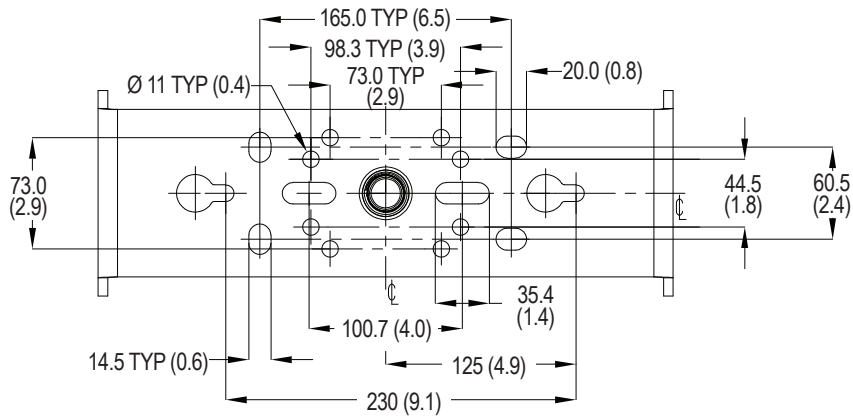


Bracket Front

Bracket Side



Bracket Top



IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

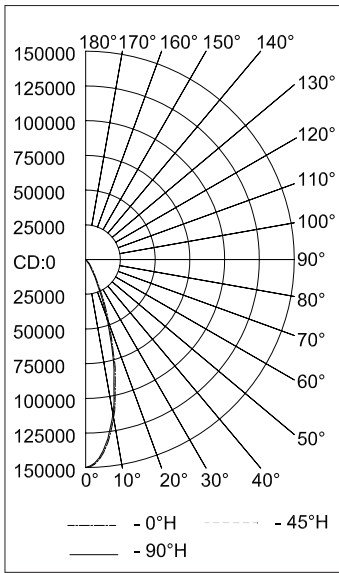
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Very Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC5CPVBH
Luminaire Lumens 50,852

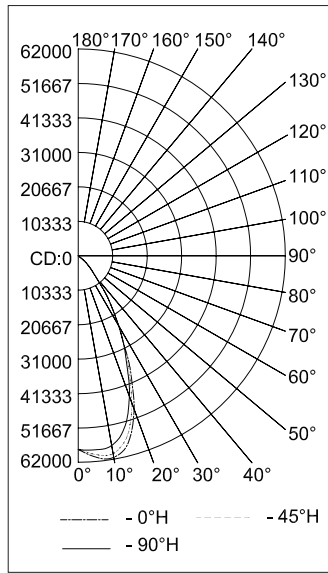
POLAR CANDELA DISTRIBUTION



Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC5CPNBH
Luminaire Lumens 50,748

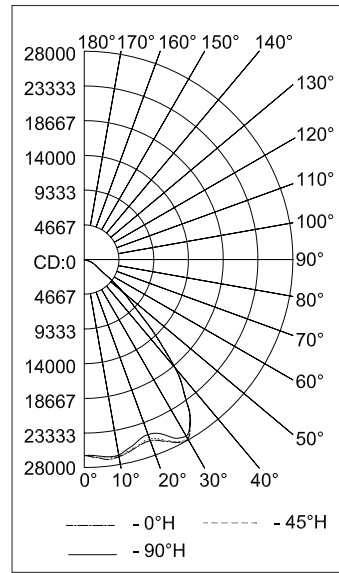
POLAR CANDELA DISTRIBUTION



Medium Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC5CPMBH
Luminaire Lumens 50,905

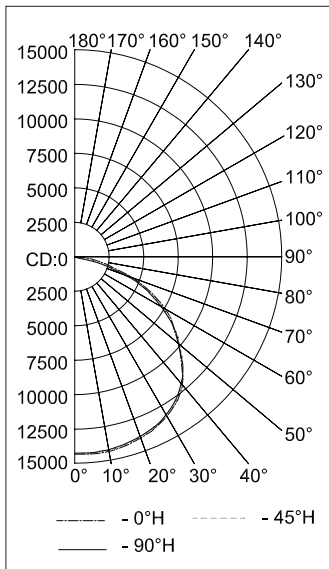
POLAR CANDELA DISTRIBUTION



Very Wide (Non-Optic) Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC5CPWBH
Luminaire Lumens 45,853

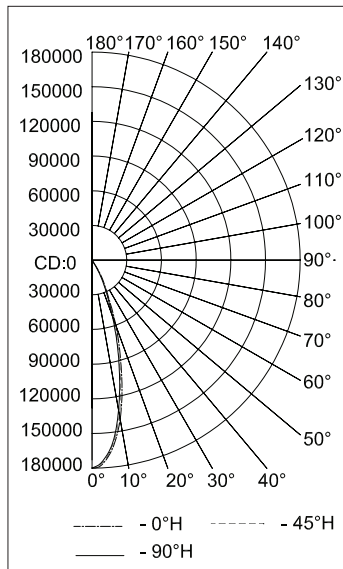
POLAR CANDELA DISTRIBUTION



Very Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC6CPVBH
Luminaire Lumens 60,937

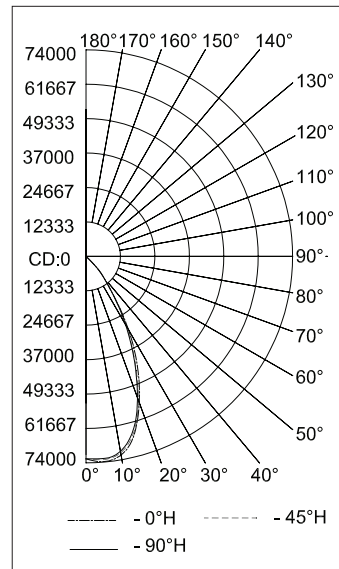
POLAR CANDELA DISTRIBUTION



Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC6CPNBH
Luminaire Lumens 60,812

POLAR CANDELA DISTRIBUTION



IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight Ordinary Locations

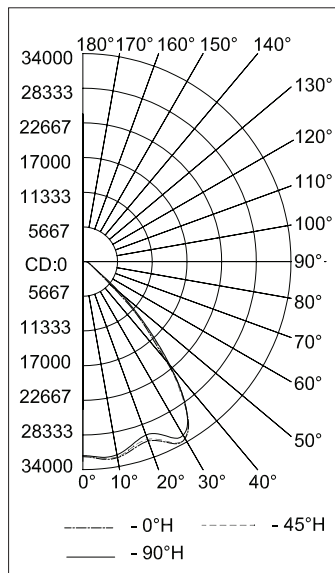
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
 IEC/CEB: IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Medium Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC6CPMBH
 Luminaire Lumens 61,001

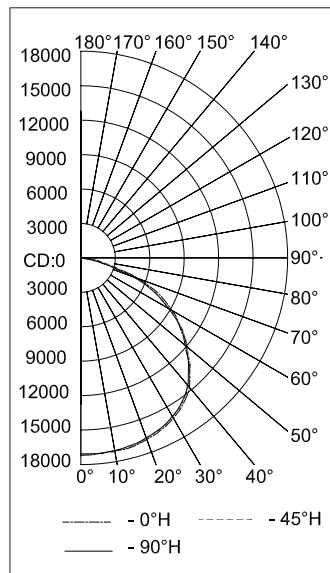
POLAR CANDELA DISTRIBUTION



Very Wide (Non-Optic) Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC6CPWBH
 Luminaire Lumens 55,373

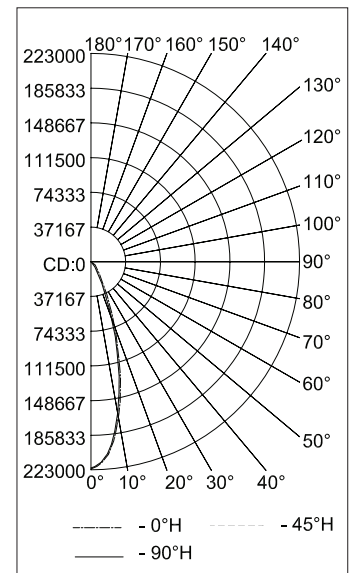
POLAR CANDELA DISTRIBUTION



Very Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC7CPVBH
 Luminaire Lumens 75,593

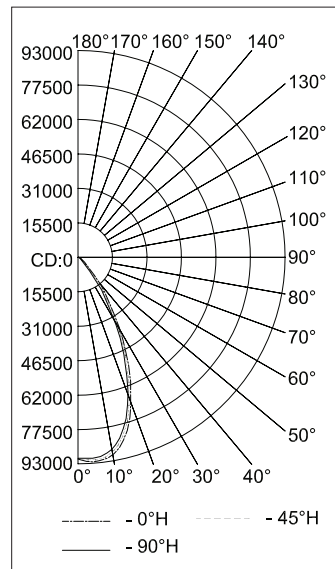
POLAR CANDELA DISTRIBUTION



Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC7CPNBH
 Luminaire Lumens 75,436

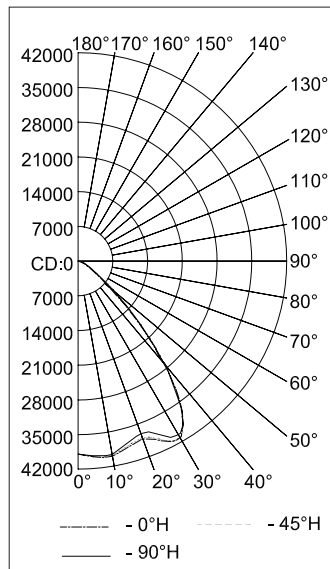
POLAR CANDELA DISTRIBUTION



Medium Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC7CPMBH
 Luminaire Lumens 75,469

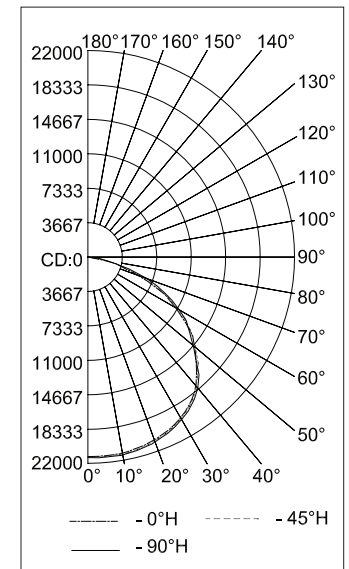
POLAR CANDELA DISTRIBUTION



Very Wide (Non-Optic) Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC7CPWBH
 Luminaire Lumens 68,781

POLAR CANDELA DISTRIBUTION



IHC LED Series Luminaires

High Lumen Output High Bay and Floodlight
Ordinary Locations

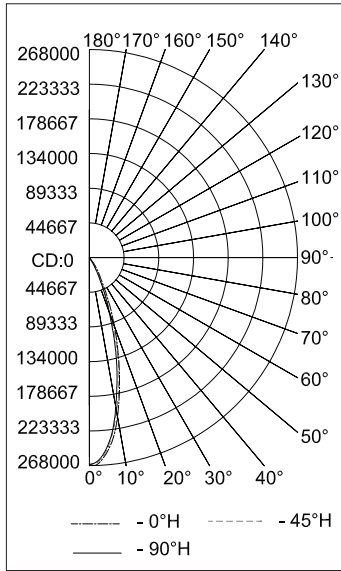
NEC/CEC: Type 3R, 4, 4X | IP66 | Marine Outside Type (Salt Water) for USA ONLY | Wet Locations
IECEE CB: IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 3G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

Very Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC9CPVBH
Luminaire Lumens 90,939

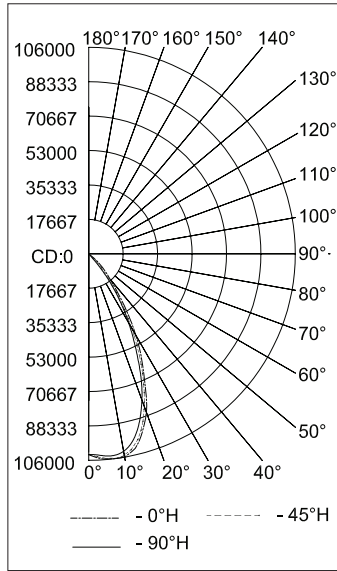
POLAR CANDELA DISTRIBUTION



Narrow Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC9CPNBH
Luminaire Lumens 90,510

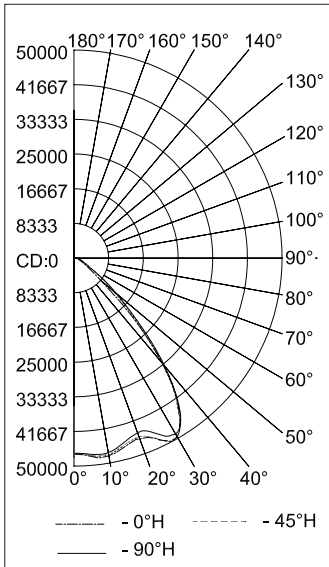
POLAR CANDELA DISTRIBUTION



Medium Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC9CPMBH
Luminaire Lumens 90,817

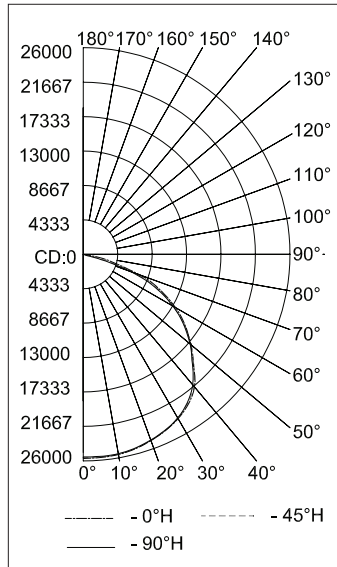
POLAR CANDELA DISTRIBUTION



Very Wide (Non-Optic) Distribution, Clear Polycarbonate, 5000K CCT

REPORT NUMBER : IHC9CPWBH
Luminaire Lumens 82,853

POLAR CANDELA DISTRIBUTION



Areamaster™ Generation 2 and High Lumen LED Series Luminaires

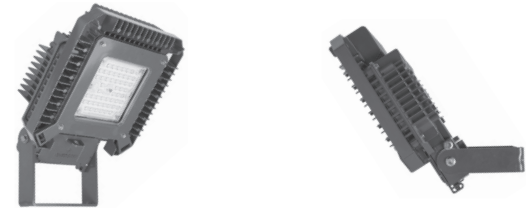
Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Applications

- Enclosed and gasketed fixtures suitable for use in a wide range of industrial, chemical processing and other areas where flammable gases and vapors are present, for example:
 - Oil and Gas Refineries
 - Petrochemical Plants
 - Foundries
 - Drilling Rigs
 - Pulp and Paper Mills
 - Food and Beverage Processing Facilities
 - Loading Docks
 - Power Plants
 - Water and Wastewater Treatment Facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem
- IP66/IP67, Type 4X, marine and wet locations. IP66 for IECEx/ATEX.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
 - 40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range.
 - 40 °C to +55 °C (-40 °F to +131 °F) for high lumen AMLHL3 output.
 - 55 °C (-67 °F) Cold Start option available for BU voltages only.
 See Catalog Numbering Guide for more details.
- Globally rated luminaires with all applicable certification labels for NEC/CEC and ATEX/IECEX environments. See Certifications and Compliances for details.



AMLG



AMLH

Features

- Six lumen outputs provide up to 38,000 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
9,500	175W-250W	AMLGL6
15,000	250W-400W	AMLGL7
19,500	400W-750W	AMLGL8
24,000	1000W	AMLHL1
30,000	1000-1500W	AMLHL2
38,000	1500W	AMLHL3

① Nominal lumen value for 5000K, NEMA 7x7, with clear glass. Detailed lumen information provided in tables.

- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapter available.
- High Bay mounting achieved by using 3/4" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.
- Yoke bracket is designed to accommodate traditional Areamaster brackets and slipfitters for easy retrofit. Optional stainless steel yoke bracket is available.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, 3000K (80 CRI) warm white, 1800K (70 CRI), or Amber (56 CRI).

L70 Ratings:

+25 °C (+77 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 135,000 hours

- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- 0-10 Vdc Dimming standard for all configurations.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- Captive fasteners secure one piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.

Warranty

- 10 year standard warranty.

Controls

- Dimming:
 - Luminaire has a two-wire, 0-10Vdc variable dimming input port for controlling the light output - for BU voltages only.
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.

‡ mb applicable for select Cold Temperature configurations only.
 ☞ For warranty details go to www.appleton.emerson.com.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.
- Dust: Zone 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 3D
 - Type of Protection: Ex tc IIIC Dc
 - Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)
- Ambient Temperature: -40 °C up to +65 °C (-40 °F up to +149 °F).
 -40 °C to +55 °C (-40 °F to +131 °F) for high lumen AMLHL3 output.
- ATEX Certificates: ITS18ATEX104171, ITS-I 23 ATEX 29460
- IECEx Certificate: IECEx ITS 18.0049
- Index of Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

Options

- Improved safety cable design with multiple retention points, *purchase separately*.
- Guard and visor available, *purchase separately*.
- Slip-fitters and mounting brackets available for easy pole or wall mounting.
- Stainless steel yoke bracket.
- 10 kV/5 kA Surge Protection, for NEC/CEC only.
- For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies

Standard Materials

- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Yoke: zinc plated steel
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided
- Guard and safety cable: stainless steel
- Visor: Aluminum

Standard Finishes

- Housing, lens cover, visor and yoke mount: architectural bronze polyester

NEC/CEC Certifications and Compliances

- UL Standards: UL 844; UL 1598; UL 1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0; CSA C22.2 No. 137
- cETLus: 104364566CHI-001, 104364566CHI-002, 104364582DAL-001
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency

ATEX/IECEx Certifications and Compliances

- Certification Type: Areamaster Generation 2 and High Lumen LED
 - Gas: Zone 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 3G
 - Type of Protection: Ex ec mb[‡] IIC Gc
 - Temperature Class: AMLG – T5 to T3; AMLH – T4 to T3
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +85 °C to +100 °C (+185 °F to +212 °F)

UKEX Certifications

- ITS22UKEX0683
- ITS22UKEX0684

CE and UKCA Marking

- ATEX: EN 60079-0, EN 60079-7, EN 60079-31
- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2, CISPR 15

ABS Certifications

- AMLG: 23-2372521-PDA
- AMLH: 23-2372520-PDA

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

- Industrial Areamaster Generation 2 and High Lumen LED Series Luminaires
- Round Tapered Steel Poles
- Hinged Steel Poles
- Square Tapered Steel Poles
- Square Steel Poles
- Floodlight Mounting Brackets

[‡] mb applicable for select Cold Temperature configurations only.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

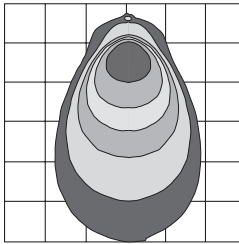
NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
ATEX/IECEX: Zones 2 – 21 and 22
Markings: CE | UKCA | UKEX
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Illustrated Features

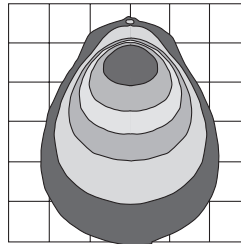
Light Where You Need It

Choose from **3 color temperatures** and a **variety of secondary optics** to put light where your application needs it most. Unsure of which optic is best for your job? Contact your sales representative to get a free 3D Dialux simulation.

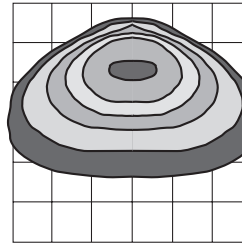
The Right Beam Pattern for Your Application



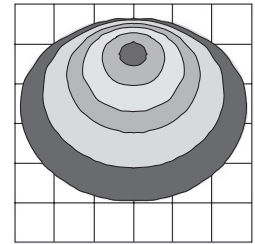
NEMA 3x3 – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).



NEMA 5x5 – Narrow, spot type forward intensity focus. Enables higher mounting heights (15 m / 50 ft +) while maintaining delivered light on surface (footcandles/lux).

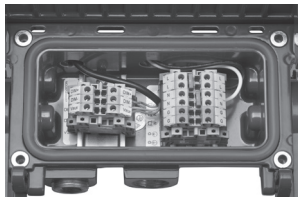


NEMA 7x6 – Mimics traditional HID light distribution. Light intensity is directed forward and side-to-side to maximize spacing between luminaires.

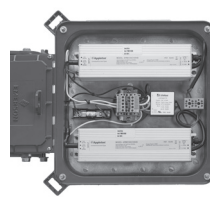


NEMA 7x7 – Uniform light spread, perfect for most typical flood lighting applications.

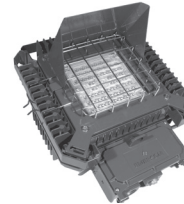
Robust Design



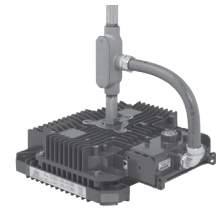
Front-Facing Wiring Compartment: Gasketed front wiring compartment with screw terminal block, and captive screws offers unmatched installation ease and convenience.



Replaceable Drivers: Easy to access, field replaceable drivers extend the useful life of your luminaire up to 200,000 hours or more.



Visor and Guard: Comply with light pollution regulations or control light spread with a visor. Protect the lens with a guard.



High Bay Mount: Use 3/4" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.

[‡] mb applicable for select Cold Temperature configurations only.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[±] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Areamaster™ LED Series Luminaires — Low Lumen Model

<p>AMLG</p> <p>Series Prefix: AMLG - Areamaster Generation 2 LED</p>	<p>L7</p> <p>Lumen Level: ① L6 - 9,500 L7 - 15,000 L8 - 19,500</p>	<p>C</p> <p>Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)</p>	<p>G</p> <p>Diffusion: G - Clear Glass F - Frosted Glass D - Diffused Polycarbonate ②</p>	<p>Z</p> <p>Beam Spread: 6 - NEMA 7x7 (non-optic) 7 - NEMA 7x6</p>	<p>BU</p> <p>Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ③</p>	<p>F</p> <p>Fusing Options: Blank - No Fusing F - Fusing ④</p>	<p>S</p> <p>Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ⑤</p>	<p>M</p> <p>Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑥</p>	<p>C</p> <p>Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑦</p>	<p>P</p> <p>Pre-Wired Options: ⑧ Blank - No Pre-wired options P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)</p>
---	---	--	--	---	---	---	---	---	--	--

[±] mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/- 10%).

② Diffused Polycarbonate lens available for NEC/CEC only. Diffused Polycarbonate lens not available with Cold Start option.

③ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

④ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

⑤ 10kV Surge Protection available for NEC/CEC only. 10kV Surge Protection not available with Cold Start option.

⑥ M20 Metric Cable Entry Adapter not available with Pre-Wired options.

⑦ Cold Start option available for NEC/CEC only. Cold Start option not available with Diffused Polycarbonate lens, BH voltage, Fusing or 10kV Surge Protection.

⑧ Pre-Wiring available for NEC/CEC only. Pre-Wiring not available with Metric Adapter option. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option.

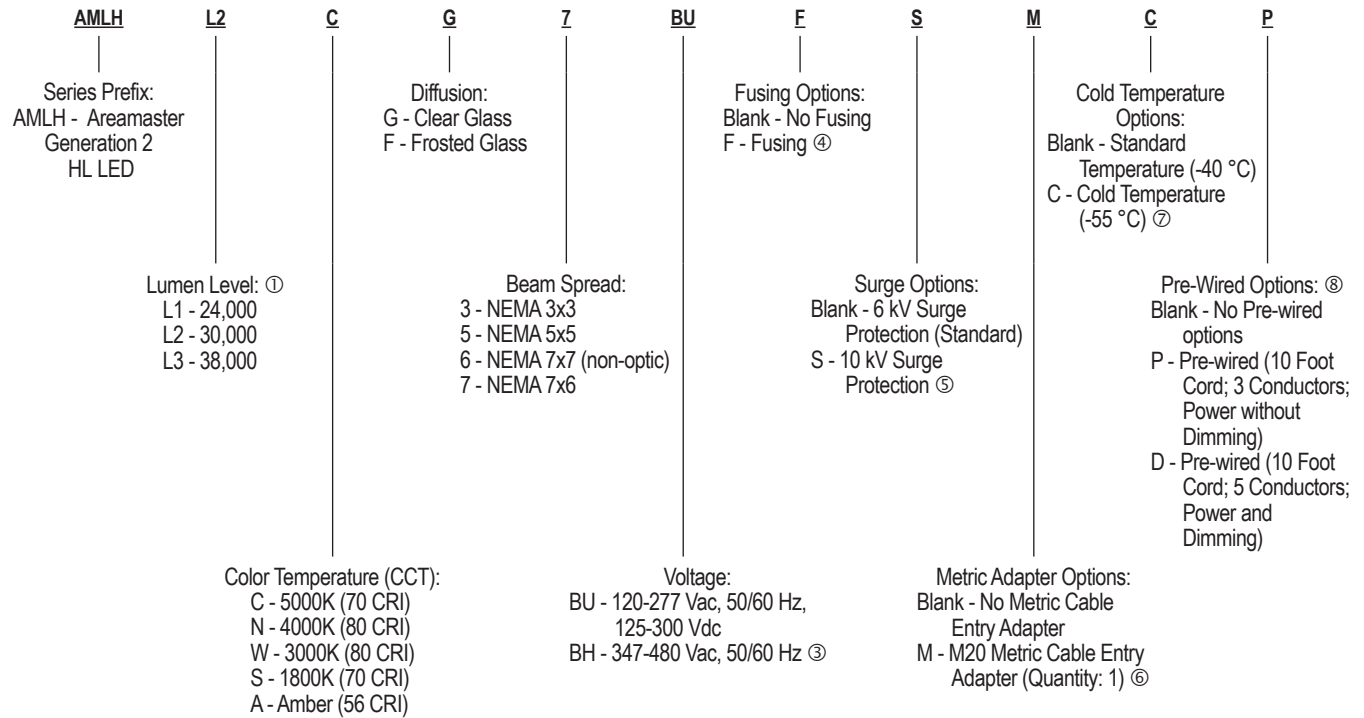
Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Areamaster™ LED Series Luminaires — High Lumen Model



[‡] mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/- 10%).

② BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

③ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

④ 10kV Surge Protection available for NEC/CEC only. 10kV Surge Protection not available with Cold Start option.

⑤ M20 Metric Cable Entry Adapter not available with Pre-Wired options.

⑥ Cold Start option available for NEC/CEC only. Cold Start option not available with BH voltage, Fusing or 10kV Surge Protection.

⑦ Pre-Wiring available for NEC/CEC only. Pre-Wiring not available with Metric Adapter option. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Low Lumen Model ① 3000K, 4000K, 5000K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
AMLGL6	175-250W	NEMA 7x6	3000K	80	7,350	105	4000K	80	8,500	121	5000K	70	9,500	136
		NEMA 7x7	3000K	80	7,650	109	4000K	80	9,000	129	5000K	70	9,900	141
AMLGL7	250-400W	NEMA 7x6	3000K	80	11,000	99	4000K	80	12,950	117	5000K	70	14,500	131
		NEMA 7x7	3000K	80	11,500	104	4000K	80	13,650	123	5000K	70	15,000	135
AMLGL8	400-750W	NEMA 7x6	3000K	80	14,500	95	4000K	80	16,550	109	5000K	70	18,500	122
		NEMA 7x7	3000K	80	15,000	99	4000K	80	17,550	115	5000K	70	19,500	128
Frosted Glass														
AMLGL6	175-250W	NEMA 7x6	3000K	80	6,200	89	4000K	80	7,200	103	5000K	70	7,900	113
		NEMA 7x7	3000K	80	6,400	91	4000K	80	7,500	107	5000K	70	8,300	119
AMLGL7	250-400W	NEMA 7x6	3000K	80	9,400	85	4000K	80	10,950	99	5000K	70	12,000	108
		NEMA 7x7	3000K	80	9,700	87	4000K	80	11,350	102	5000K	70	12,500	113
AMLGL8	400-750W	NEMA 7x6	3000K	80	12,000	79	4000K	80	14,000	92	5000K	70	15,550	102
		NEMA 7x7	3000K	80	12,500	82	4000K	80	14,500	95	5000K	70	16,550	109
Diffused Polycarbonate														
AMLGL6	175-250W	NEMA 7x6	3000K	80	5,950	85	4000K	80	6,950	99	5000K	70	7,700	110
		NEMA 7x7	3000K	80	6,250	89	4000K	80	7,300	104	5000K	70	8,050	115
AMLGL7	250-400W	NEMA 7x6	3000K	80	9,000	81	4000K	80	10,550	95	5000K	70	11,700	105
		NEMA 7x7	3000K	80	9,450	85	4000K	80	11,000	99	5000K	70	12,200	110
AMLGL8	400-750W	NEMA 7x6	3000K	80	11,500	76	4000K	80	13,500	89	5000K	70	15,000	99
		NEMA 7x7	3000K	80	12,100	80	4000K	80	14,150	93	5000K	70	15,650	103

‡ mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Low Lumen Model ① Amber, 1800K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
AMLGL6	175-250W	NEMA 7x6	Amber	56	5,400	78	1800K	70	6,150	89
		NEMA 7x7	Amber	56	5,900	82	1800K	70	6,700	94
AMLGL7	250-400W	NEMA 7x6	Amber	56	8,150	73	1800K	70	9,300	84
		NEMA 7x7	Amber	56	8,550	78	1800K	70	9,800	89
AMLGL8	400-750W	NEMA 7x6	Amber	56	10,150	67	1800K	70	11,650	77
		NEMA 7x7	Amber	56	10,450	69	1800K	70	12,250	81
Frosted Glass										
AMLGL6	175-250W	NEMA 7x6	Amber	56	4,550	66	1800K	70	5,250	76
		NEMA 7x7	Amber	56	4,950	69	1800K	70	5,600	79
AMLGL7	250-400W	NEMA 7x6	Amber	56	6,900	63	1800K	70	7,900	71
		NEMA 7x7	Amber	56	7,150	65	1800K	70	8,250	75
AMLGL8	400-750W	NEMA 7x6	Amber	56	8,500	56	1800K	70	9,950	66
		NEMA 7x7	Amber	56	8,800	58	1800K	70	10,300	68
Diffused Polycarbonate										
AMLGL6	175-250W	NEMA 7x6	Amber	56	4,300	62	1800K	70	4,950	72
		NEMA 7x7	Amber	56	4,700	66	1800K	70	5,350	75
AMLGL7	250-400W	NEMA 7x6	Amber	56	6,600	60	1800K	70	7,500	67
		NEMA 7x7	Amber	56	6,850	62	1800K	70	7,850	71
AMLGL8	400-750W	NEMA 7x6	Amber	56	8,050	53	1800K	70	9,450	62
		NEMA 7x7	Amber	56	8,350	55	1800K	70	9,850	65

[‡] mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — High Lumen Model ① 3000K, 4000K, 5000K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	
Clear Glass															
AMLHL1	1000W	NEMA 3x3	3000K	80	19,350	109	4000K	80	20,250	114	5000K	70	22,750	128	
		NEMA 5x5	3000K	80	20,850	117	4000K	80	21,900	123	5000K	70	25,000	140	
		NEMA 7x6	3000K	80	19,000	107	4000K	80	20,500	115	5000K	70	23,000	129	
		NEMA 7x7	3000K	80	20,100	113	4000K	80	21,300	120	5000K	70	24,250	136	
AMLHL2	1000-1500W	NEMA 3x3	3000K	80	23,450	106	4000K	80	24,600	111	5000K	70	27,500	124	
		NEMA 5x5	3000K	80	25,500	115	4000K	80	26,700	120	5000K	70	30,000	135	
		NEMA 7x6	3000K	80	23,200	105	4000K	80	25,000	113	5000K	70	27,950	126	
AMLHL3	1500W	NEMA 7x7	3000K	80	24,650	111	4000K	80	26,100	118	5000K	70	29,750	134	
		NEMA 3x3	3000K	80	29,500	99	4000K	80	30,950	104	5000K	70	34,750	117	
		NEMA 5x5	3000K	80	32,000	107	4000K	80	33,600	113	5000K	70	37,500	126	
		NEMA 7x6	3000K	80	29,300	98	4000K	80	31,500	106	5000K	70	35,350	119	
AMLHL1	1000W	NEMA 7x7	3000K	80	31,000	104	4000K	80	32,800	110	5000K	70	37,400	126	
		Frosted Glass													
		NEMA 3x3	3000K	80	17,200	97	4000K	80	17,950	101	5000K	70	20,000	112	
		NEMA 5x5	3000K	80	18,600	104	4000K	80	19,350	109	5000K	70	21,550	121	
AMLHL2	1000-1500W	NEMA 7x6	3000K	80	16,150	91	4000K	80	17,300	97	5000K	70	19,500	110	
		NEMA 7x7	3000K	80	16,850	95	4000K	80	18,000	101	5000K	70	20,500	115	
		NEMA 3x3	3000K	80	21,000	95	4000K	80	21,950	99	5000K	70	24,750	111	
		NEMA 5x5	3000K	80	22,650	102	4000K	80	23,600	106	5000K	70	26,000	117	
AMLHL3	1500W	NEMA 7x6	3000K	80	19,600	88	4000K	80	21,000	95	5000K	70	23,700	107	
		NEMA 7x7	3000K	80	20,550	93	4000K	80	21,950	99	5000K	70	25,000	113	
		NEMA 3x3	3000K	80	26,400	89	4000K	80	27,500	92	5000K	70	31,000	104	
		NEMA 5x5	3000K	80	28,600	96	4000K	80	29,750	100	5000K	70	33,500	112	
AMLHL1	1000W	NEMA 7x6	3000K	80	24,750	83	4000K	80	26,550	89	5000K	70	29,950	101	
		NEMA 7x7	3000K	80	26,000	87	4000K	80	27,700	93	5000K	70	31,500	106	

± mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — High Lumen Model ① Amber, 1800K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
AMLHL1	1000W	NEMA 3x3	Amber	56	14,050	76	1800K	70	14,450	78
		NEMA 5x5	Amber	56	14,350	78	1800K	70	15,900	86
		NEMA 7x6	Amber	56	13,350	73	1800K	70	15,050	82
		NEMA 7x7	Amber	56	14,150	77	1800K	70	15,850	86
AMLHL2	1000-1500W	NEMA 3x3	Amber	56	16,200	73	1800K	70	16,850	76
		NEMA 5x5	Amber	56	16,700	75	1800K	70	18,600	83
		NEMA 7x6	Amber	56	15,600	71	1800K	70	17,550	79
		NEMA 7x7	Amber	56	16,550	75	1800K	70	18,500	83
AMLHL3	1500W	NEMA 3x3	Amber	56	18,750	63	1800K	70	19,850	67
		NEMA 5x5	Amber	56	19,850	67	1800K	70	21,850	73
		NEMA 7x6	Amber	56	18,450	62	1800K	70	20,700	69
		NEMA 7x7	Amber	56	19,500	66	1800K	70	21,800	73
Frosted Glass										
AMLHL1	1000W	NEMA 3x3	Amber	56	12,500	68	1800K	70	12,850	70
		NEMA 5x5	Amber	56	12,650	69	1800K	70	14,200	77
		NEMA 7x6	Amber	56	11,350	62	1800K	70	13,000	71
		NEMA 7x7	Amber	56	12,000	66	1800K	70	13,500	73
AMLHL2	1000-1500W	NEMA 3x3	Amber	56	14,250	64	1800K	70	15,000	67
		NEMA 5x5	Amber	56	14,850	67	1800K	70	16,500	74
		NEMA 7x6	Amber	56	13,250	60	1800K	70	15,200	68
		NEMA 7x7	Amber	56	14,050	63	1800K	70	15,800	71
AMLHL3	1500W	NEMA 3x3	Amber	56	16,950	57	1800K	70	17,650	59
		NEMA 5x5	Amber	56	17,400	59	1800K	70	19,500	65
		NEMA 7x6	Amber	56	15,800	53	1800K	70	17,900	60
		NEMA 7x7	Amber	56	16,450	55	1800K	70	18,600	62

‡ mb applicable for select Cold Temperature configurations only.

① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
AMLGL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
AMLGL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
AMLGL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
AMLHL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
AMLHL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
AMLHL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

[‡] mb applicable for select Cold Temperature configurations only.

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

Areaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

NEC/CEC Temperature Codes

Model	Max Driver Current (mA)	Max Ambient C° (F°)	Gas		Dust		Combined Class I, Division 2 and Class II, Division 1	Gas Ex ec IIC, Class I, Zone 2, AEx ec IIC	Dust Ex tb IIC, Zone 21, AEx tb IIC
			Class I, Division 2 Groups A, B, C, D	Class I, Zone 2 Group IIC	Class II, Division 1 Groups E, F, G	Zone 20 Group IIC			
AMLGL6	410	40 (104)	T5	T5	T6	T6	T4A	T5	T85 °C
		55 (131)	T4A	T4	T6	T6	T4A	T4	T85 °C
		65 (149)	T4A	T4	T6	T6	T4	T4	T85 °C
AMLGL7	680	40 (104)	T4	T4	T6	T6	T4	T4	T85 °C
		55 (131)	T3C	T3	T6	T6	T3C	T3	T85 °C
		65 (149)	T3C ①	T3 ①	T5 ①	T5 ①	T3C ①	T3 ②	T100 °C ②
AMLGL8	930	40 (104)	T3C	T3	T6	T6	T3C	T3	T85 °C
		55 (131)	T3B ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
		65 (149)	T3A ①	T3 ①	T5 ①	T5 ①	T3A ①	T3 ①	T100 °C ②
AMLHL1	530	40 (104)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		55 (131)	T4A	T4	T6/T5 ③	T6/T5 ③	T4A	T4	T85°C/T100°C ③
		65 (149)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
AMLHL2	680	40 (104)	T4	T4	T6/T5 ③	T6/T5 ③	T4	T4	T85°C/T100°C ③
		55 (131)	T4	T4	T5 ③	T5 ③	T4	T4	T100°C
		65 (149)	T3C	T3	T5 ③	T5 ③	T4	T3	T100°C
AMLHL3	915	40 (104)	T3C	T3	T6/T5 ③	T6/T5 ③	T3C	T3	T85°C/T100°C ③
		55 (131)	T3C	T3	T5 ③	T5 ③	T3C	T3	T100°C
		65 (149)	—	—	—	—	—	—	—

NEC/CEC — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature ④ ⑤

“T” #	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range °C (°F)	+351 to +450 (+664 to +842)	+326 to +350 (+619 to +662)	+301 to +325 (+574 to +617)	+281 to +300 (+538 to +572)	+261 to +280 (+502 to +536)	+231 to +260 (+448 to +500)	+216 to +230 (+421 to +446)	+201 to +215 (+394 to +419)	+181 to +200 (+358 to +392)	+166 to +180 (+331 to +356)	+161 to +165 (+322 to +329)	+136 to +160 (+277 to +320)	+121 to +135 (+250 to +275)	+101 to +120 (+214 to +248)	+86 to +100 (+187 to +212)	+85 (+185)

‡ mb applicable for select Cold Temperature configurations only.

Notes: Supply Wire Temperature for all: +90 °C (+194 °F).

For input voltages of 125-169 Vdc, an ambient temperature exceeding +55 °C (+131 °F) is not permitted.

① Diffused polycarbonate lens option is not certified for these ambient temperature and lumen output combinations. Diffused polycarbonate not available for AMLH high lumen series

② Diffused polycarbonate lens is certified for NEC/CEC only. No face up orientation for installation.

③ T5 is maximum allowed temperature code, and T100°C is maximum allowed temperature, when model number includes 3x3 secondary optic.

④ T numbers represent the maximum internal temperature for Class I, Division 2 and Class I, Zone 2 locations designated by the NEC.

⑤ T numbers represent the maximum surface temperature under a dust blanket for Class II, Division 1 and Class I, Zone 2 as designated by the NEC or Zone 2 (Gas) and 22 (Dust) locations as designated by the IEC.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

ATEX/IECEx Temperature Codes

Model	Max Driver Current (mA)	Gas — T Rating			Dust — Surface Temperature		
		+40°C (+104°F)	+55°C (+131°F)	+65°C (+149°F)	+40°C (+104°F)	+55°C (+131°F)	+65°C (+149°F)
AMLGL6	410	T5	T4	T4	T85°C	T85°C	T85°C
AMLGL7	680	T4	T3	T3	T85°C	T85°C	T100°C
AMLGL8	930	T3	T3	T3	T85°C	T100°C	T100°C
AMLHL1	530	T4	T4	T4	T85°C ①	T85°C ①	T100°C
AMLHL2	680	T4	T4	T3	T85°C ①	T100°C	T100°C
AMLHL3	915	T3	T3	—	T85°C ①	T100°C	—

ATEX/IECEx — “T” Numbers Represent the Maximum Internal Temperature or Maximum Surface Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

[‡] mb applicable for select Cold Temperature configurations only.


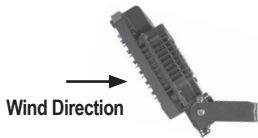

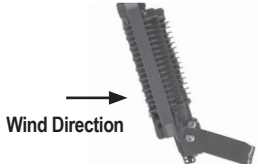
① Areamaster High Lumen with 3x3 secondary optic surface temperature is T100°C for these ranges.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Luminaire Category		Frontal Projected Area (FPA) ft ²	Drag Coefficient (DC)	Effective Projected Area (EPA) = FPA*DC ft ²
Low Lumen Model — AMLG				
90° to Ground-Worst Case Mounting		1.52	1.20	1.82
45° to Ground-Standard Mounting		1.07	1.2	1.28
High Lumen Model — AMLH				
90° to Ground-Worst Case Mounting		2.04	1.20	2.45
45° to Ground-Standard Mounting		1.44	1.20	1.73

[‡] mb applicable for select Cold Temperature configurations only.




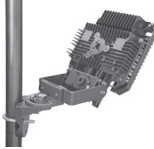



Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Crossarm Mounting Bracket			
	Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to GAM8WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.	1.4 (3.1)	GAM8CA
Pipe or Wall Mount Bracket			
	Used with GAM8CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	2.9 (6.4)	GAM8WB
	<i>Crossarm Mounting Bracket (GAM8CA) used with Pipe or Wall Mount Bracket (GAM8WB).</i>		
Poletop Slip-Fitter			
	Slip-fits 1" or 1-1/2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	2.4 (5.3)	AMLEDSF1
Poletop Slip-Fitter			
	Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.	2.4 (5.3)	GSF20
Poletop Slip-Fitter			
	Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.	2.8 (6.2)	GAM8SF

[‡] mb applicable for select Cold Temperature configurations only.


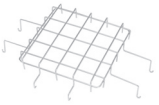





Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Wall Mount Bracket			
	Used with GAM8SF to provide a wall mounting option. Galvanized Steel.	4.8 (10.5)	GPSWB6GAL
Wire Guard - Stainless Steel			
	AMLGL6, AMLGL7, AMLGL8	0.2 (0.4)	LGGUARD
	AMLHL1, AMLHL2, AMLHL3		LHGUARD
Safety Cable			
	Stainless steel - 1.22 m (4 ft)	0.2 (0.4)	LEDSC
	Stainless steel - 2.44 m (8 ft)	0.4 (0.8)	LEDSC8
Visor for Dark Sky Friendly Design - Steel with architectural bronze polyester finish			
	AMLGL6, AMLGL7, AMLGL8	0.2 (0.4)	AMLGV
	AMLHL1, AMLHL2, AMLHL3		AMLHV
Portable Floodlight Base			
	Portable floodlight base for temporary lighting applications. To be used with wire guard. Malleable iron with architectural bronze polyester finish.	2.4 (5.2)	GAMPFB
Replacement Covers/Lenses			
	Clear Glass — AMLGL6, AMLGL7, AMLGL8	2.2 (4.8)	AMLGCLEAR
	Frosted Glass — AMLGL6, AMLGL7, AMLGL8	2.0 (4.5)	AMLG Frost
	Diffused Polycarbonate — AMLGL6, AMLGL7, AMLGL8	1.6 (3.5)	AMLGDIFFP
	Clear Glass — AMLHL1, AMLHL2, AMLHL3	2.4 (5.3)	AMLHCLEAR
	Frosted Glass — AMLHL1, AMLHL2, AMLHL3	2.4 (5.3)	AMLHFROST
Yoke Mount Bracket			
	Stainless Steel Yoke Mount Bracket. For installations requiring a higher degree of corrosion protection. Made with all stainless steel components, no painted finish.	1.8 (4.0)	AMLYMSS
	Architectural Bronze Replacement Yoke Bracket - Matches mounting hole pattern of Crouse-Hinds™ † Champ FMVA and Champ Pro PFMA LED series floodlights	1.41 (3.1)	AMLYMCH

[‡] mb applicable for select Cold Temperature configurations only.

[†] Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires



Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photocontrol Kit — Separate FS Cast Hub Device Box (Step 1) and Photocontrol in FS Cover (Step 2)



	Voltage Range	Max VA	Max VA	Max Current Amps	Photocell Catalog Number	Device Box Catalog Number	
						Iron	Aluminum
Step 1: FS Cast Hub Device Box — single gang 2.00 in. deep FS Box, with one 3/4 in. bottom hub entry — Order separately							
— Connect FS Box to luminaire wiring compartment with 3/4 in. close conduit nipple or 3/4 in. 90° elbow. Purchased separately from other supplier.							
	N/A	N/A	N/A	N/A	—	APP-FS-1-75	APP-FS-1-75-A
Step 2: Photocontrol in FS Cover for installation in FS Cast Hub Device Box — Order separately							
— Supplied with two stainless screws and neoprene gasket, catalog number: FS-GKR-1N							
	120 V, 50/60 Hz	1000	1000	8.3 Amp	FSKA-PC120D2	—	—
	208 V, 50/60 Hz	1000	1000	4.8 Amp			
	240 V, 50/60 Hz	1000	1000	4.2 Amp	FSKA-PC247D2	—	—
	277 V, 50/60 Hz	1000	1000	3.6 Amp			

[‡] mb applicable for select Cold Temperature configurations only.



Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number	
Low Lumen Model - Standard Temperature (-40 °C)						
	AMLGL6C, AMLGL6N, AMLGL6W, AMLGL6S, AMLGL6A	BU BH	100 Watt	410mA	APMS100C105UD41 APMS100C105HD41	
	AMLGL7W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65	
	AMLGL7C, AMLGL7N, AMLGL7S, AMLGL7A	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68	
	AMLGL8W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89	
	AMLGL8C, AMLGL8N, AMLGL8S, AMLGL8A	BU BH	150 Watt	930mA	APMS150C105UD93 APMS150C105HD93	
	Cold Temperature (-55 °C)					
	AMLGL6 - all CCTs	BU	100 Watt	410mA	APMZ100C090UD41	
	AMLGL7 - all CCTs	BU	150 Watt	680mA	APMZ150C135UD68	
	AMLGL8 - all CCTs	BU	150 Watt	930mA	APMZ150C135UD93	
	High Lumen Model - Standard Temperature (-40 °C)					
	AMLHL1C, AMLHL1N, AMLHL1W, AMLHL1S, AMLHL1A	BU BH	100 Watt	530mA	APMS100C105UD53 APMS100C105HD53	
	AMLHL2W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65	
	AMLHL2C, AMLHL2N, AMLHL2S, AMLHL2A	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68	
	AMLHL3W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89	
	AMLHL3C, AMLHL3N, AMLHL3S, AMLHL3A	BU BH	150 Watt	915mA	APMS150C105UD91 APMS150C105HD91	
	Cold Temperature (-55 °C)					
	AMLHL1 - all CCTs	BU	100 Watt	530mA	APMZ100C090UD53	
	AMLHL2 - all CCTs	BU	150 Watt	680mA	APMZ150C135UD68	
	AMLHL3 - all CCTs	BU	150 Watt	915mA	APMZ150C135UD93	

Luminaire Weight

Description	Weight in kg (lbs)
Low Lumen Model — AMLGL6, AMLGL7, AMLGL8 Luminaires	9.8 (21.6)
High Lumen Model — AMLHL1, AMLHL2, AMLHL3 Luminaires	16.1 (35.4)

[‡] mb applicable for select Cold Temperature configurations only.

Lighting

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[‡] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

AMLG Dimensions in Millimeters (Inches) — Floodlight — Low Lumen Model

Top View Dimensions:
 Width: 328.7 (12.94)
 Height: 413.5 (16.28)
 Square Feature: 156.5 (6.16)
 Yoke Bolt Spacing: 57.2 (2.25)
 Mounting Hole Spacing: 88.9 (3.5) and 119.8 (4.72)
 Mounting Hole: (1) Mounting Hole Ø 14 (0.56)

Side View Dimensions:
 Width: 128.3 (5.05)
 Total Height: 351.5 (13.84)
 Turning Radius: 152.4 (6.00) 180° Rotation

Labels:
 (4) Yoke Bolts
 Conduit Entry
 (2) Mounting Holes 14x9 (0.56x0.35)
 Yoke

(4) 1/4-20 UNC-2B Thread

(2) Hubs for 3/4" NPT Conduit or M20 Metric

[‡] mb applicable for select Cold Temperature configurations only.

A312 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

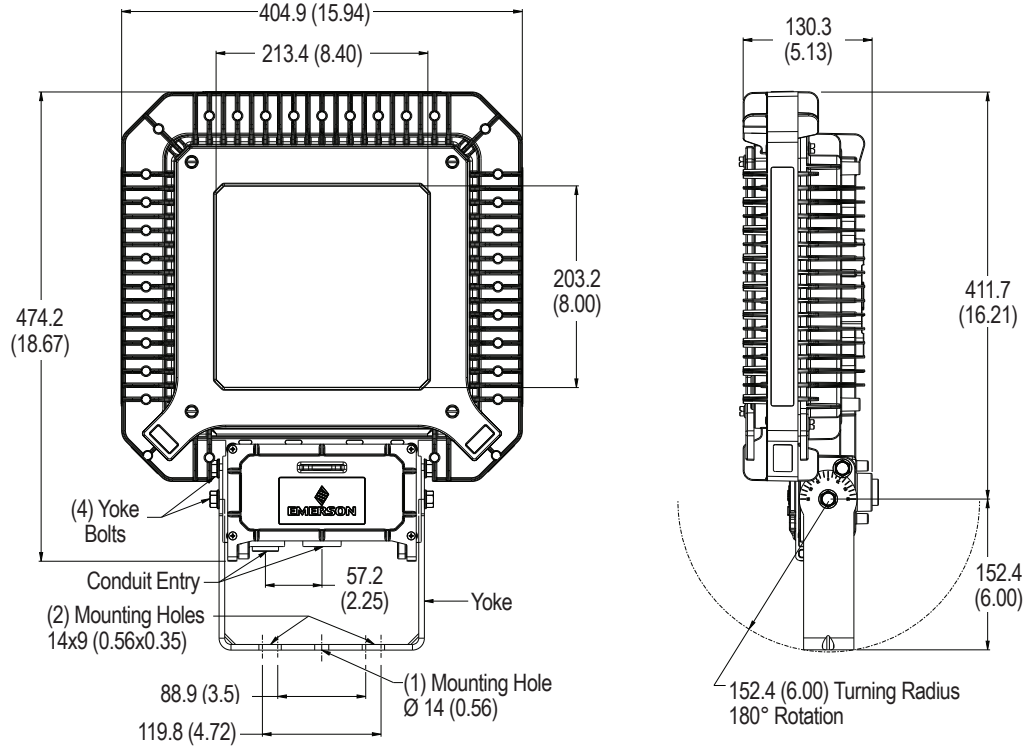
Areaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

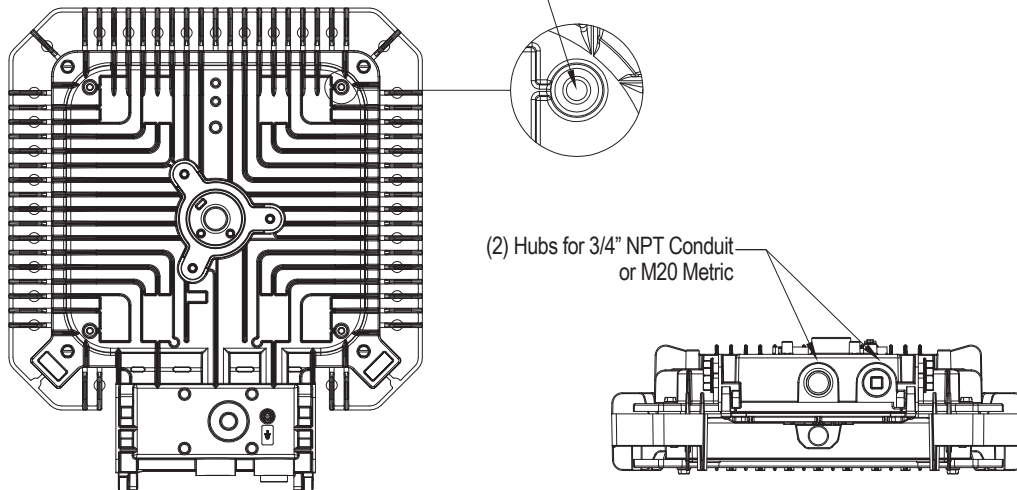
Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

AMLH Dimensions in Millimeters (Inches) — Floodlight — High Lumen Model



(4) 1/4-20 UNC-2B Thread



± mb applicable for select Cold Temperature configurations only.

Lighting

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb⁺ IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLGL6CG6BU**

Luminaire Lumens : 9,964 lumens

POLAR CANDELA DISTRIBUTION

NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLGL6CF6BU**

Luminaire Lumens : 8,115 lumens

POLAR CANDELA DISTRIBUTION

NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLGL7CG6BU**

Luminaire Lumens : 15,320 lumens

POLAR CANDELA DISTRIBUTION

NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLGL7CF6BU**

Luminaire Lumens : 12,782 lumens

POLAR CANDELA DISTRIBUTION

NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLGL8CG6BU**

Luminaire Lumens : 19,895 lumens

POLAR CANDELA DISTRIBUTION

NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLGL8CF6BU**

Luminaire Lumens : 16,503 lumens

POLAR CANDELA DISTRIBUTION

‡ mb applicable for select Cold Temperature configurations only.

A314 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

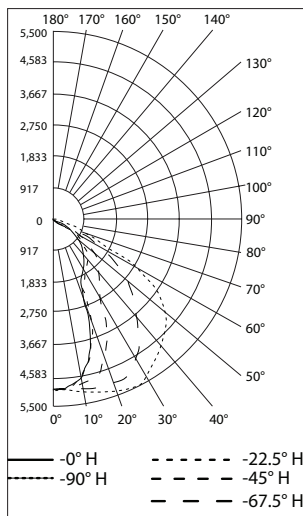
Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

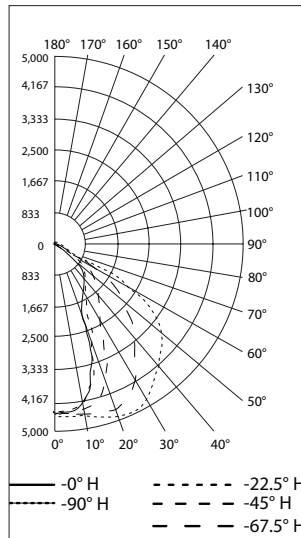
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLGL6CG7BU**
 Luminaire Lumens : 9,086 lumens

POLAR CANDELA DISTRIBUTION



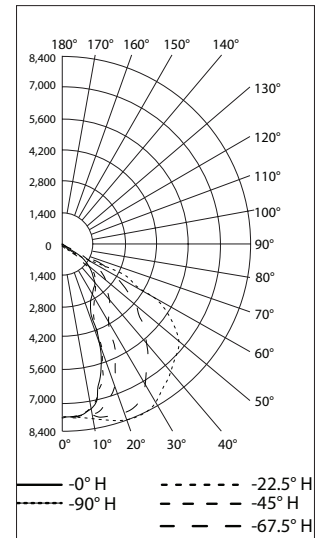
NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLGL6WG7BU**
 Luminaire Lumens : 8,111 lumens

POLAR CANDELA DISTRIBUTION



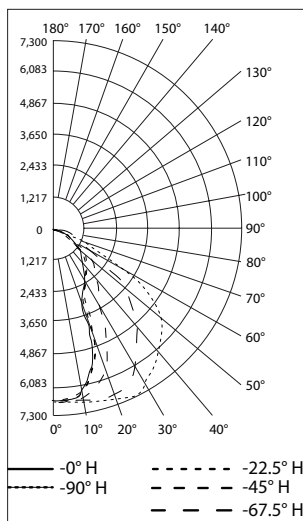
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLGL7CG7BU**
 Luminaire Lumens : 14,205 lumens

POLAR CANDELA DISTRIBUTION



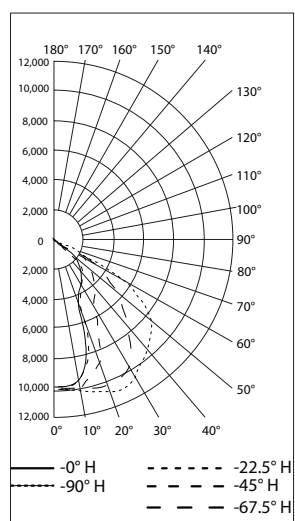
NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLGL7WG7BU**
 Luminaire Lumens : 11,971 lumens

POLAR CANDELA DISTRIBUTION



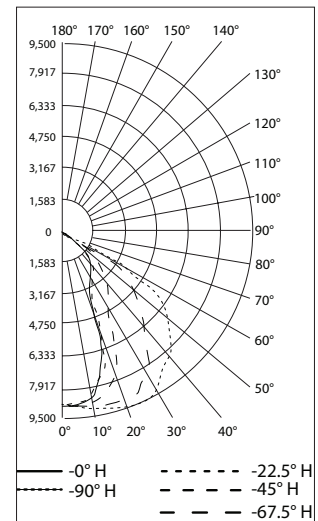
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLGL8CG7BU**
 Luminaire Lumens : 18,467 lumens

POLAR CANDELA DISTRIBUTION



NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLGL8WG7BU**
 Luminaire Lumens : 15,556 lumens

POLAR CANDELA DISTRIBUTION



‡ mb applicable for select Cold Temperature configurations only.

Lighting

Areaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb[†] IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEx: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 5x5, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL1CG5BU**

Luminaire Lumens : 24,140 lumens

POLAR CANDELA DISTRIBUTION

NEMA 5x5, Clear Glass, 3000K CCT

REPORT NUMBER : **AMLHL1WG5BU**

Luminaire Lumens : 21,416 lumens

POLAR CANDELA DISTRIBUTION

NEMA 5x5, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL2CG5BU**

Luminaire Lumens : 30,068 lumens

POLAR CANDELA DISTRIBUTION

NEMA 5x5, Clear Glass, 3000K CCT

REPORT NUMBER : **AMLHL2WG5BU**

Luminaire Lumens : 25,490

POLAR CANDELA DISTRIBUTION

NEMA 5x5, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL3CG5BU**

Luminaire Lumens : 38,350 lumens

POLAR CANDELA DISTRIBUTION

NEMA 5x5, Clear Glass, 3000K CCT

REPORT NUMBER : **AMLHL3WG5BU**

Luminaire Lumens : 32,835 lumens

POLAR CANDELA DISTRIBUTION

† mb applicable for select Cold Temperature configurations only.

A316 **EMERSON**

Visit our website at www.masteringled.com.
 Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

APPLETON

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

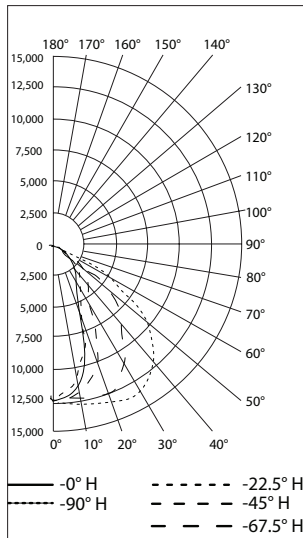
Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

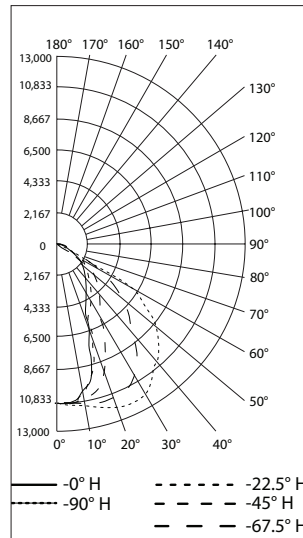
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLHL1CG7BU**
 Luminaire Lumens : 22,661 lumens

POLAR CANDELA DISTRIBUTION



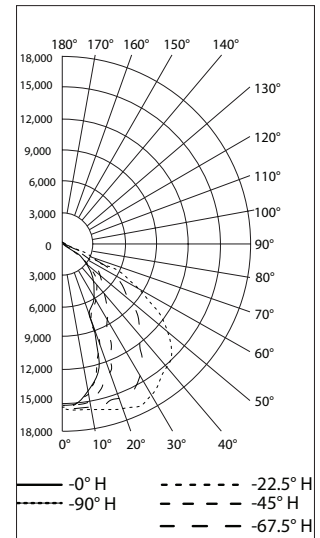
NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLHL1WG7BU**
 Luminaire Lumens : 19,753

POLAR CANDELA DISTRIBUTION



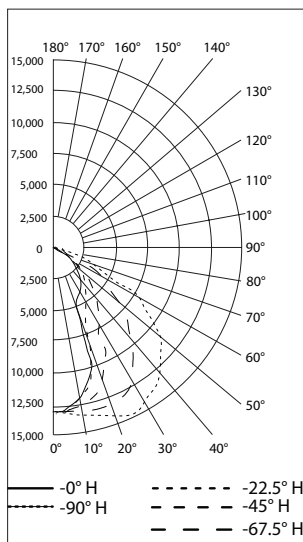
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLHL2CG7BU**
 Luminaire Lumens : 28,063 lumens

POLAR CANDELA DISTRIBUTION



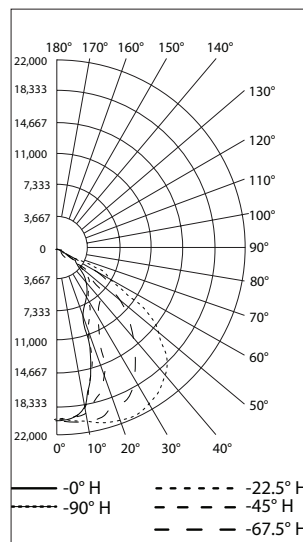
NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLHL2WG7BU**
 Luminaire Lumens : 23,532 lumens

POLAR CANDELA DISTRIBUTION



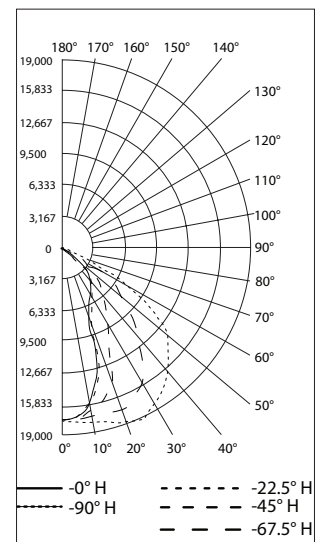
NEMA 7x6, Clear Glass, 5000K CCT
 REPORT NUMBER : **AMLHL3CG7BU**
 Luminaire Lumens : 35,430 lumens

POLAR CANDELA DISTRIBUTION



NEMA 7x6, Clear Glass, 3000K CCT
 REPORT NUMBER : **AMLHL3WG7BU**
 Luminaire Lumens : 30,346 lumens

POLAR CANDELA DISTRIBUTION



‡ mb applicable for select Cold Temperature configurations only.

Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1, Groups E, F, G | Class II, Division 2, Groups F, G | Class III | Zone 20, 21 and 22 | Class I, Zone 2 AEx/Ex ec mb² IIC Gc | Zone 21, AEx/Ex tb IIC Db | Type 3R, 4 and 4X | IP66/67 | Simultaneous Exposure | Marine Outside Type (Salt Water) for USA Only | Wet Locations
 ATEX/IECEX: Zones 2 – 21 and 22
 Markings: CE | UKCA | UKEX
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

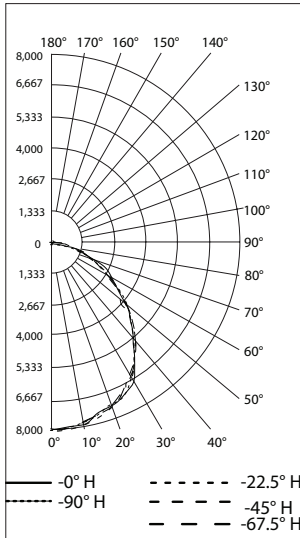
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLHL1CF6BU**

Luminaire Lumens : 20,578 lumens

POLAR CANDELA DISTRIBUTION

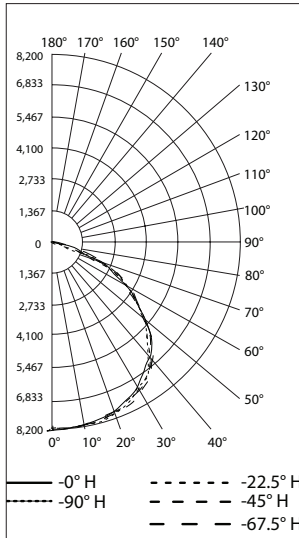


NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL1CG6BU**

Luminaire Lumens : 23,457 lumens

POLAR CANDELA DISTRIBUTION

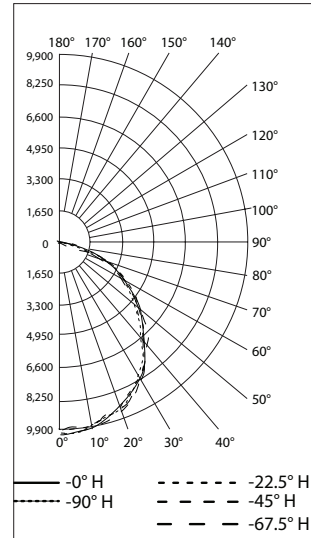


NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLHL2CF6BU**

Luminaire Lumens : 25,616 lumens

POLAR CANDELA DISTRIBUTION

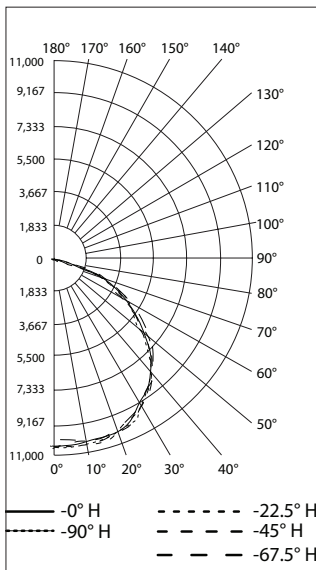


NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL2CG6BU**

Luminaire Lumens : 30,157 lumens

POLAR CANDELA DISTRIBUTION

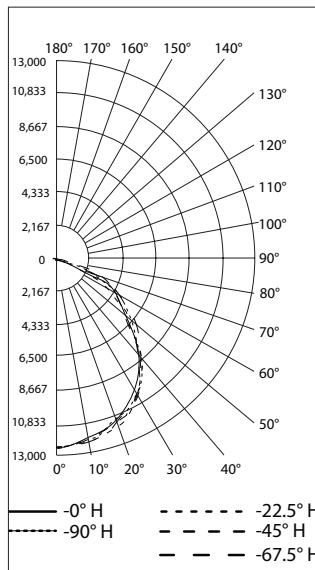


NEMA 7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : **AMLHL3CF6BU**

Luminaire Lumens : 31,600 lumens

POLAR CANDELA DISTRIBUTION

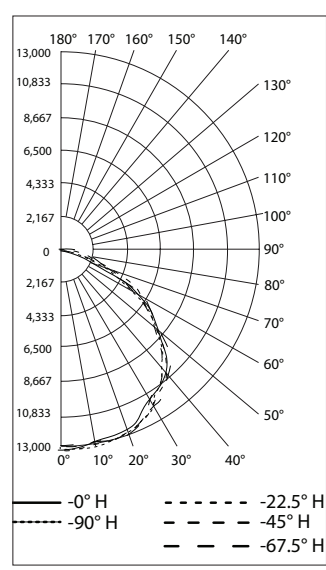


NEMA 7x7, Clear Glass, 5000K CCT

REPORT NUMBER : **AMLHL3CG6BU**

Luminaire Lumens : 37,039 lumens

POLAR CANDELA DISTRIBUTION



± mb applicable for select Cold Temperature configurations only.

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- For use in locations where:
 - Hazardous areas designated as: Zone 1, 2, 21 and 22
 - A high degree of corrosion resistance is required
 - Protection against gas, dust, water and moisture is necessary
- Typical applications include:
 - A wide range of harsh and hazardous areas where flammable gases and vapors are present, for example:
 - Oil and Gas Refineries
 - Petrochemical Plants
 - Foundries
 - Drilling Rigs
 - Pulp and Paper Mills
 - Food and Beverage Processing Facilities
 - Loading Docks
 - Power Plants
 - Water and Wastewater Treatment Facilities
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem
 - IP66/67; marine and wet locations
 - Extreme hot/cold temperature environments: -40 °C to +55/65 °C (-40 °F to +131/149 °F)



AMLZ



AMHZ

Features

- Six lumen outputs provide up to 38,000 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
9,500	175W-250W	AMLZL6
15,000	250W-400W	AMLZL7
19,500	400W-750W	AMLZL8
24,000	1000W	AMHZL1
30,000	1000-1500W	AMHZL2
38,000	1500W	AMHZL3

① Nominal lumen value for 5000K, NEMA 7x7, with clear glass. Detailed lumen information provided in tables.

- Separate field wiring compartment with screw terminal block for easy and secure connection (can accept UL/CSA 26-10 AWG, 4 to 6 mm²).
- Choice of optics for optimal light distribution in a variety of applications.
- Two 3/4" NPT entries provided. Metric M20 adapters available.
- Yoke bracket is designed to accommodate traditional Areamaster brackets and slipfitters for easy retrofit.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, or 3000K (80 CRI) warm white.
- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- Thermal shock and impact resistant clear or frosted glass lens.
- Standard 6 kV surge protection.
- Captive fasteners secure on piece lens.
- Field replaceable LED driver and lens cover.
- Photobiological safety rating: Risk Group Zero (RG0) with frosted glass; Risk Group One (RG1) with clear glass.

Warranty ②

- 10 year standard warranty.

Options

- Improved safety cable design with multiple retention points, *purchase separately*.
- Guard and visor available, *purchase separately*.
- Slip-fitters and mounting brackets available for easy pole or wall mounting.
- For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies

Standard Materials

- Housing and lens door: copperfree aluminum (4/10 of 1% maximum)
- Gaskets: silicone rubber
- Yoke: zinc plated HR steel
- Bolts: stainless steel
- Close up plugs: (1) aluminum provided
- Guard and safety cable: stainless steel
- Visor: aluminum

Standard Finishes

- Housing, lens cover, visor and yoke mount: architectural bronze polyester.

NEC/CEC Certifications and Compliances

- UL Standards: UL 1598; UL 60079-0; UL 60079-7; UL 60079-18; UL 60079-31
- CSA Standards: CSA C22.2 No. 250.0; CAN/CSA C22.2 No. 60079-0; CAN/CSA C22.2 No. 60079-7; CAN/CSA C22.2 No. 60079-18; CAN/CSA C22.2 No. 60079-31
- ETL Report Number: 103761505DAL-001

② For warranty details go to www.appleton.emerson.com.

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

ATEX/IECEx Certifications and Compliances

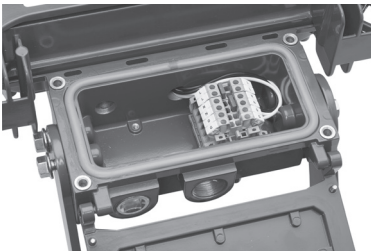
- Certification Type: Areamaster Gen 2
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2G
 - Type of Protection: Ex eb mb op is IIC Gb
 - Temperature Class: T6 to T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2D
 - Type of Protection: Ex op is tb IIC Db
 - Surface Temperature: +85 °C to +100 °C (-185 °F to +212 °F)
- Ambient Temperature: -40 °C to +65 °C (-40 °F to +149 °F)
- ATEX Certificate: ITS18ATEX303521
- IECEx Certificate: IECEx ITS 18.0031
- Index of Protection according to EN/IEC 60529: IP66/67
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: RG0 with frosted glass, RG1 with clear glass

Illustrated Features

Light Where You Need It

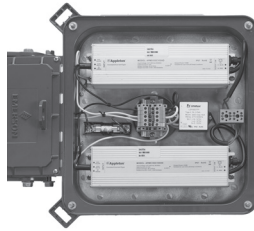
Choose from **3 color temperatures** and a **variety of secondary optics** to put light where your application needs it most. Unsure of which optic is best for your job? Contact your sales representative to get a free 3D Dialux simulation.

Robust Design



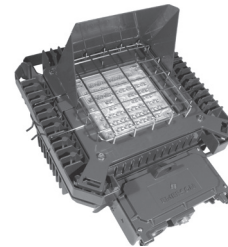
Front-Facing Wiring Compartment:

The Areamaster gasketed front wiring compartment with screw terminal block, and captive screws offers unmatched installation ease and convenience.



Replaceable Drivers:

Easy to access, field replaceable drivers extend the useful life of your luminaire up to 200,000 hours or more. Shown above, the Areamaster High Lumen which demands two LED drivers for the very bright outputs up to 38,000 lumens.



Visor and Guard:

Whether using to comply with light pollution regulations, or simply controlling your light more and protection your lens, our optional visor and guards are readily available for your applications.

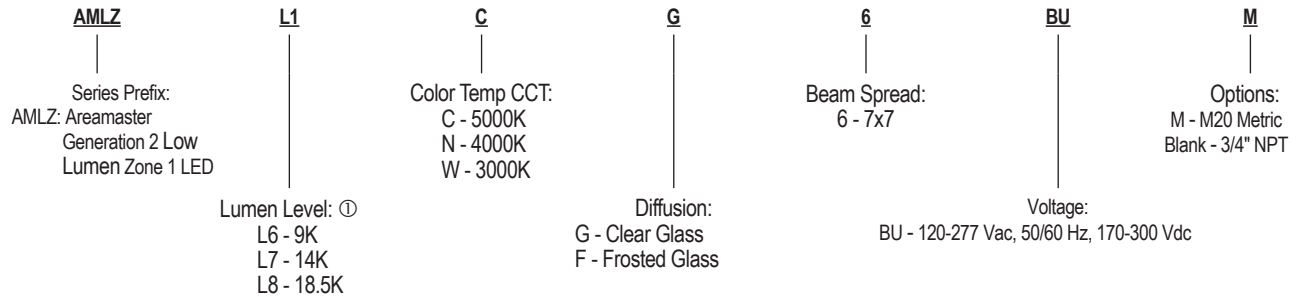
Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

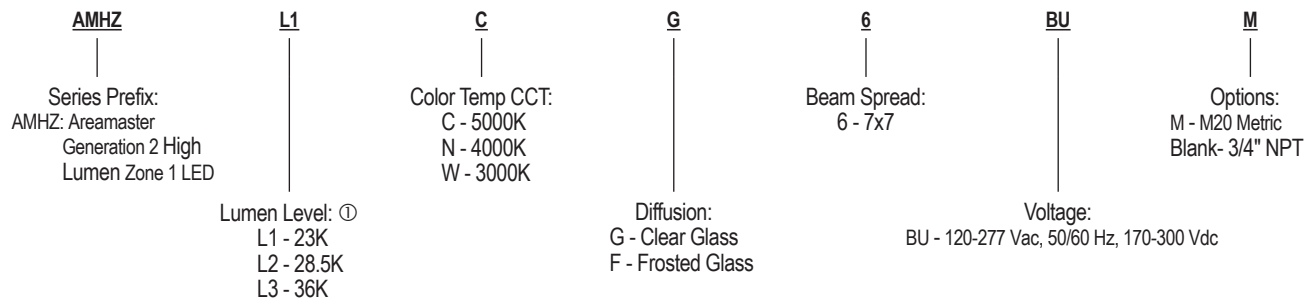
Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — Areamaster™ Generation 2 Series Luminaires — Low Lumen Model



Order Using Catalog Numbering Guide — Areamaster™ Generation 2 HL Series Luminaires — High Lumen Model



① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Lumen Output (Efficacy) — Low Lumen Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
AMLZL6	175-250W	7x7	3000K	80	8,159	125	4000K	80	8,097	124	5000K	70	9,027	139
AMLZL7	250-400W	7x7	3000K	80	12,681	120	4000K	80	12,569	120	5000K	70	14,029	134
AMLZL8	400-750W	7x7	3000K	80	16,364	114	4000K	80	16,221	113	5000K	70	18,104	126
Frosted Glass														
AMLZL6	175-250W	7x7	3000K	80	6,737	104	4000K	80	6,691	102	5000K	70	7,454	115
AMLZL7	250-400W	7x7	3000K	80	10,451	100	4000K	80	10,387	99	5000K	70	11,563	110
AMLZL8	400-750W	7x7	3000K	80	13,553	94	4000K	80	13,465	94	5000K	70	14,993	104

Lumen Output (Efficacy) — High Lumen Model ①

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
AMHZL1	1000W	7x7	3000K	80	20,670	125	4000K	80	20,205	122	5000K	70	22,556	136
AMHZL2	1000-1500W	7x7	3000K	80	25,281	123	4000K	80	24,708	120	5000K	70	27,588	134
AMHZL3	1500W	7x7	3000K	80	32,231	116	4000K	80	31,488	113	5000K	70	35,171	127
Frosted Glass														
AMHZL1	1000W	7x7	3000K	80	17,179	104	4000K	80	16,838	102	5000K	70	18,746	113
AMHZL2	1000-1500W	7x7	3000K	80	20,948	102	4000K	80	20,531	100	5000K	70	22,859	111
AMHZL3	1500W	7x7	3000K	80	26,733	96	4000K	80	26,203	94.43	5000K	70	29,171	105

① All lumen values are typical (tolerance +/-10%).

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
AMLZL6	120 Vac	65	0.6	0.99	< 20%
	277 Vac	63	0.3	0.93	< 20%
	170 Vdc	63	0.5	N/A	N/A
	300 Vdc	63	0.3	N/A	N/A
AMLZL7	120 Vac	105	0.9	0.99	< 20%
	277 Vac	103	0.4	0.94	< 20%
	170 Vdc	103	0.7	N/A	N/A
	300 Vdc	103	0.4	N/A	N/A
AMLZL8	120 Vac	140	1.2	0.99	< 20%
	277 Vac	135	0.5	0.93	< 20%
	170 Vdc	138	0.8	N/A	N/A
	300 Vdc	136	0.5	N/A	N/A
High Lumen Model					
AMHZL1	120 Vac	165	1.4	0.99	< 20%
	277 Vac	161	0.6	0.93	< 20%
	170 Vdc	162	1	N/A	N/A
	300 Vdc	162	0.6	N/A	N/A
AMHZL2	120 Vac	205	1.7	0.99	< 20%
	277 Vac	195	0.8	0.94	< 20%
	170 Vdc	202	1.2	N/A	N/A
	300 Vdc	202	0.7	N/A	N/A
AMHZL3	120 Vac	275	2.4	0.99	< 20%
	277 Vac	265	1	0.94	< 20%
	170 Vdc	270	1.7	N/A	N/A
	300 Vdc	265	0.9	N/A	N/A

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

Areaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Temperature Codes ①

Model Number	Gas — T Rating			Dust — Surface T°		
	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)	Ta= +40 °C (+104 °F)	Ta= +55 °C (+131 °F)	Ta= +65 °C (+149 °F)
NEC/CEC (AEx/Ex) — Low Lumen Model						
AMLZL6	T6	T5	T5	T6	T6	T6
AMLZL7	T4	T4	T4	T6	T5	T5
AMLZL8	T4	T4	T4	T6	T5	T5
ATEX/IECEX — Low Lumen Model						
AMLZL6	T6	T5	T5	+85 °C (+185)	+85 °C (+185)	+85 °C (+185)
AMLZL7	T4	T4	T4	+85 °C (+185)	+100 °C (+ 212 °F)	+100 °C (+ 212 °F)
AMLZL8	T4	T4	T4	+85 °C (+185)	+100 °C (+ 212 °F)	+100 °C (+ 212 °F)
NEC/CEC (AEx/Ex) — High Lumen Model						
AMHXL1	T5	T4	T4	T6	T5	T5
AMHXL2	T4	T4	T4	T6	T5	T5
AMHXL3	T4	T4	--	T5	T5	--
ATEX/IECEX — High Lumen Model						
AMHXL1	T5	T4	T4	+85 °C (+185)	+100 °C (+ 212 °F)	+100 °C (+ 212 °F)
AMHXL2	T4	T4	T4	+85 °C (+185)	+100 °C (+ 212 °F)	+100 °C (+ 212 °F)
AMHXL3	T4	T4	--	+100 °C (+ 212 °F)	+100 °C (+ 212 °F)	--

"T" Numbers Represent the Maximum Internal Temperature ② or Maximum Surface Temperature ③

"T" #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① Ambient Temperature Range: -40 °C to +65 °C (-40 °F to +149 °F).

② T numbers represent the maximum internal temperature for Class I, Zone 1 locations designated by the NEC, and Zone 1 (Gas) locations as designated by the IEC.


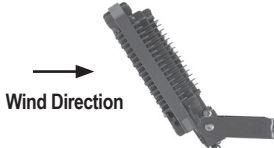

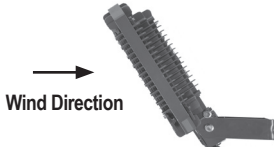
③ T numbers and surface temperatures represent the maximum surface temperature under a dust blanket for Class I, Zone 21 as designated by the NEC, and Zone 21 (Dust) locations as designated by the IEC.

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Luminaire Category	Image	Frontal Projected Area (FPA) mm (ft²)	Drag Coefficient (DC)	Effective Projected Area (EPA) = FPA*DC ft² mm (ft²)
Low Lumen Model				
90° to Ground-Worst Case Mounting		0.5 (1.52)	1.20	0.6 (1.82)
45° to Ground-Standard Mounting		0.3 (1.07)	1.20	0.4 (1.28)
High Lumen Model				
90° to Ground-Worst Case Mounting		0.6 (2.04)	1.20	0.75 (2.45)
45° to Ground-Standard Mounting		0.4 (1.44)	1.20	0.5 (1.73)







Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Accessories and Replacement Parts

Description	Weight in kg (lbs)	Catalog Number
Crossarm Mounting Bracket		
 <p>Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to GAM8WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.</p>	1.4 (3.1)	GAM8CA
Pipe or Wall Mount Bracket		
 <p>Used with GAM8CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.</p>	2.9 (6.4)	GAM8WB
 <p><i>Crossarm Mounting Bracket (GAM8CA) used with Pipe or Wall Mount Bracket (GAM8WB).</i></p> 		
Poletop Slip-Fitter		
 <p>Slip-fits 1" or 1-1/2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.</p>	2.4 (5.3)	AMLEDSF1
Poletop Slip-Fitter		
 <p>Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.</p>	2.8 (6.2)	GAM8SF


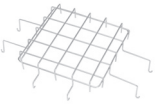




Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Wall Mount Bracket			
	Used with GAM8SF to provide a wall mounting option. Galvanized Steel.	4.8 (10.5)	GPSWB6GAL
Wire Guard			
	Stainless steel.	0.2 (0.4)	LGGUARD LHGUARD
Safety Cable			
	Stainless steel.	0.2 (0.4)	LEDSC
Visor			
	Steel with architectural bronze polyester finish. For Dark Sky Friendly design.	0.2 (0.4)	AMLGV AMLHV
Portable Floodlight Base			
	Portable floodlight base for temporary lighting applications. To be used with wire guard. Malleable iron with architectural bronze polyester finish.	2.4 (5.2)	GAMPFB
Replacement Covers			
	Clear Glass — AMLZ	N/A	AMLZCLEAR
	Frosted Glass — AMLZ	1.8 (4.0)	AMLZFROST
	Clear Glass — AMHZ	N/A	AMHZCLEAR
	Frosted Glass — AMHZ	N/A	AMHZFROST
Yoke Mount Bracket			
	Stainless Steel Yoke Mount Bracket. For installations requiring a higher degree of corrosion protection. Made with all stainless steel components, no painted finish.	1.8 (4.0)	AMLYMSS
	Architectural Bronze Replacement Yoke Bracket	1.41 (3.1)	AMLYMAB



Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Replacement Drivers

	Luminaire Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number
Low Lumen Model					
	AMLZ6	BU	100 Watt	410mA	APMZ100C090UD41
	AMLZL7	BU	150 Watt	680mA	APMZ150C135UD68
	AMLZL8	BU	150 Watt	930mA	APMZ150C135UD93
High Lumen Model					
	AMHZL1	BU	100 Watt	530mA	APMZ100C090UD53
	AMHZL2	BU	150 Watt	680mA	APMZ150C135UD68
	AMHZL3	BU	150 Watt	915mA	APMZ150C135UD93

Luminaire Weight

Description	Weight in kg (lbs)
Low Lumen Model — AMLZ Luminaires	9.8 (21.6)
High Lumen Model — AMHZ Luminaires	16.5 (36.5)

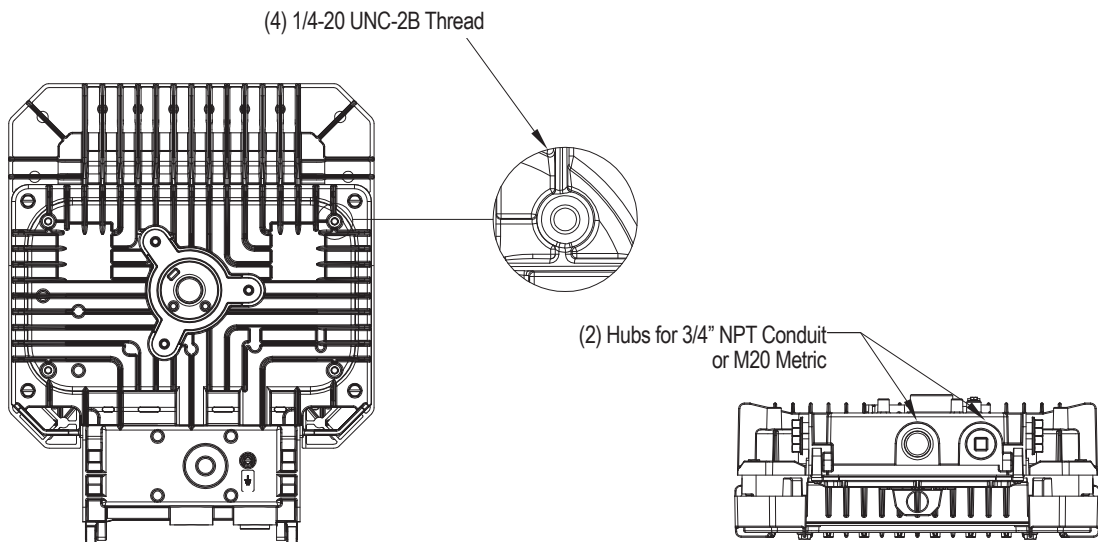
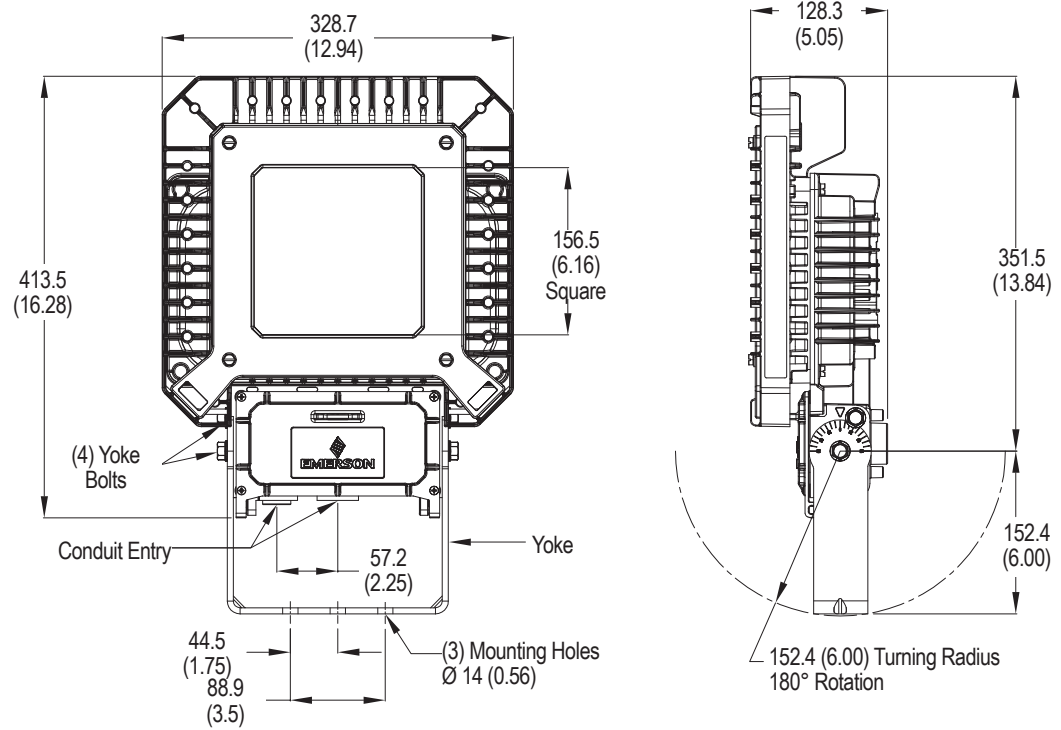
Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

AMLZ Dimensions in Millimeters (Inches) — Floodlight — Low Lumen Model



Lighting

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEX: Zones 1 and 2 – 21 and 22

AMHZ Dimensions in Millimeters (Inches)

Floodlight — High Lumen Model

Technical drawings of the floodlight showing front and side views with dimensions:

- Front View Dimensions:
 - Overall width: 404.9 (15.94)
 - Inner width: 213.4 (8.40)
 - Overall height: 474.2 (18.67)
 - Height from top to yoke: 203.2 (8.00)
 - Yoke width: 57.2 (2.25)
 - Mounting hole offset from center: 44.5 (1.75)
 - Mounting hole offset from yoke edge: 88.9 (3.50)
 - Mounting holes: (3) Mounting Holes \varnothing 14 (0.56)
- Side View Dimensions:
 - Top width: 130.3 (5.13)
 - Overall height: 411.7 (16.21)
 - Height from bottom to yoke: 152.4 (6.00)
 - Turning Radius: 152.4 (6.00) Turning Radius 180° Rotation
- Other Labels: (4) Yoke Bolts, Conduit Entry, Yoke.

(4) 1/4-20 UNC-2B Thread

Detailed technical drawings of the floodlight showing internal components and mounting details:

- Top View: Shows the internal LED array and mounting structure.
- Bottom View: Shows the mounting base and conduit entry points.
- Close-up: Shows the mounting hole detail with (4) 1/4-20 UNC-2B Thread.
- Side View: Shows the mounting base with (2) Hubs for 3/4" NPT Conduit or M20 Metric.

A330

Visit our website at www.masteringled.com.
Contact us at (800) 621-1506 or +33 3 22 54 13 90. | © June 2024

Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 – 21 and 22

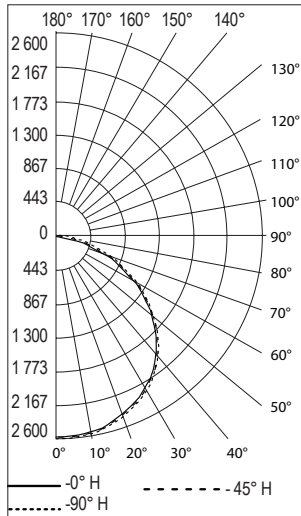
Photometric Data — DATA SHOWN IS ABSOLUTE

7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : AMLZL6CF6BUM

Luminaire Lumens : 7 454 lumens

POLAR CANDELA DISTRIBUTION

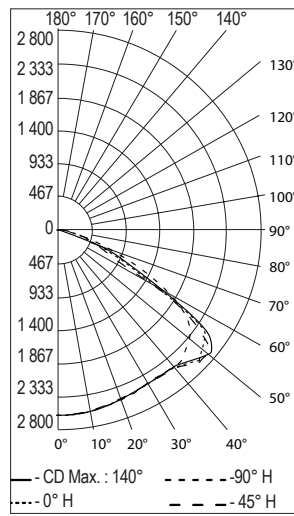


7x7, Clear Glass, 5 000 K

REPORT NUMBER : AMLZL6CG6BUM

Luminaire Lumens : 9 027 lumens

POLAR CANDELA DISTRIBUTION

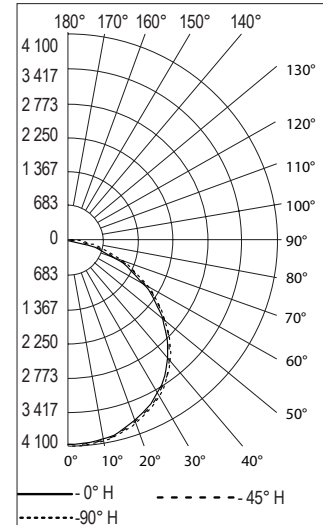


7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : AMLZL7CF6BUM

Luminaire Lumens : 11 563 lumens

POLAR CANDELA DISTRIBUTION

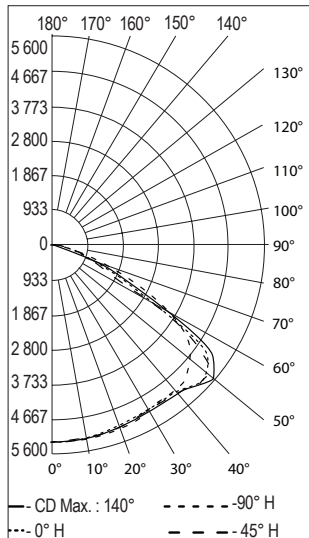


7x7, Clear Glass, 5 000 K

REPORT NUMBER : AMLZL7CG6BUM

Luminaire Lumens : 14 029 lumens

POLAR CANDELA DISTRIBUTION

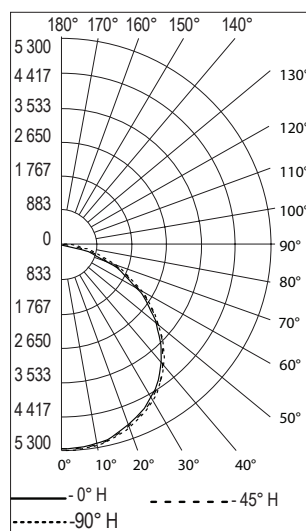


7x7, Frosted Glass, 5 000 K

REPORT NUMBER : AMLZL8CF6BUM

Luminaire Lumens : 14 993 lumens

POLAR CANDELA DISTRIBUTION

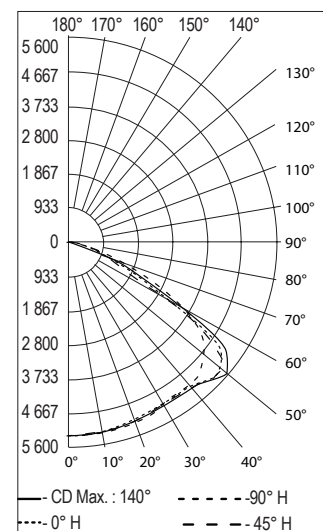


7x7, Clear Glass, 5000K CCT

REPORT NUMBER : AMLZL8CG6BUM

Luminaire Lumens : 18 104 lumens

POLAR CANDELA DISTRIBUTION



Areamaster™ Generation 2 and High Lumen LED Zone 1 Series Luminaires

Floodlight

Hazardous Locations

NEC/CEC: Class I, Zone 1 AEx/Ex eb mb Group IIC Gb | Class I, Zone 21 AEx/Ex tb Group IIC Db
ATEX/IECEx: Zones 1 and 2 - 21 and 22

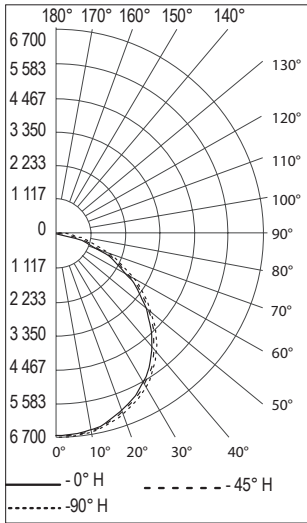
Photometric Data — DATA SHOWN IS ABSOLUTE

7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : AMHXL1CF6BUM

Luminaire Lumens : 18 746 lumens

POLAR CANDELA DISTRIBUTION

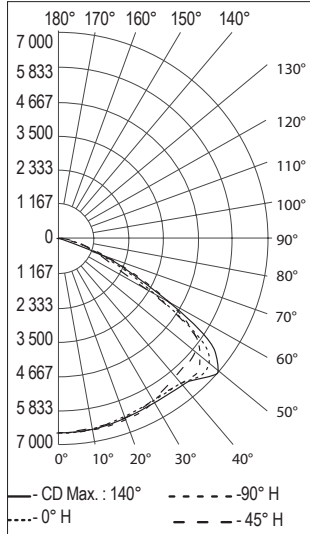


7x7, Clear Glass, 5 000 K

REPORT NUMBER : AMHXL1CG6BUM

Luminaire Lumens : 22 556 lumens

POLAR CANDELA DISTRIBUTION

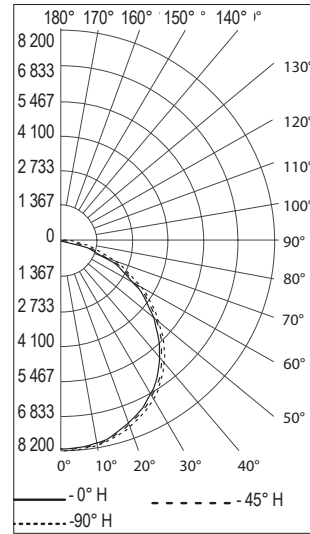


7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : AMHXL2CF6BUM

Luminaire Lumens : 22 859 lumens

POLAR CANDELA DISTRIBUTION

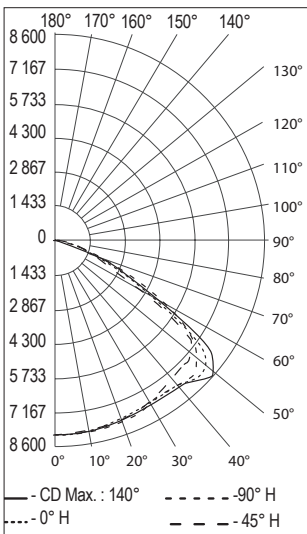


7x7, Clear Glass, 5 000 K

REPORT NUMBER : AMHXL2CG6BUM

Luminaire Lumens : 27 588 lumens

POLAR CANDELA DISTRIBUTION

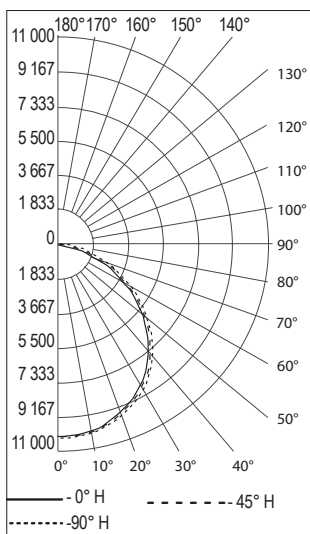


7x7, Frosted Glass, 5000K CCT

REPORT NUMBER : AMHXL3CF6BUM

Luminaire Lumens : 29 171 lumens

POLAR CANDELA DISTRIBUTION

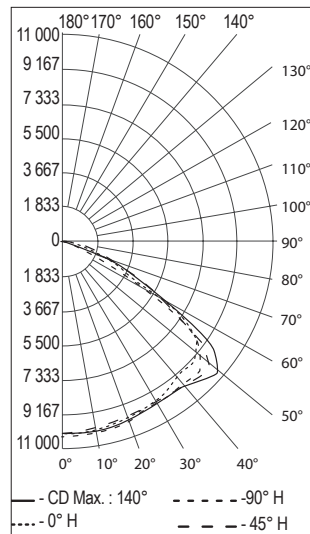


7x7, Clear Glass, 5 000 K

REPORT NUMBER : AMHXL3CG6BUM

Luminaire Lumens : 35 171 lumens

POLAR CANDELA DISTRIBUTION



Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations
 IEC/CEB: IK08 | IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Applications

- Powerful, efficient, weatherproof lighting fixtures suitable for use in a wide range of industrial areas, for example:
 - Steel Production Plants
 - Power Generation Facilities
 - Foundries
 - Cement, Stone and Sand Plants
 - Pulp and Paper Mills
 - Ship Building and Shipping Ports
 - Storage Areas
 - Security Lighting
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants
 - Other areas where corrosive, wet, dirty and tough environments are a problem
- IP66/IP67, Type 4X, marine and wet locations.
- Locations requiring dependable, consistent lighting in extreme hot/cold temperature environments.
 - 40 °C to +65 °C (-40 °F to +149 °F) ambient temperature range.
 - 40 °C to +55 °C (-40 °F to +131 °F) for high lumen IAMLHL3 output.
 - 55 °C (-67 °F) Cold Start option available for BU voltages only.
 See Catalog Numbering Guide for more details.

Features

- Six lumen outputs provide up to 38,000 lumens.

Nominal Lumens ①	HID Equivalent	Model Number
9,500	175W-250W	IAMLGL6
15,000	250W-400W	IAMLGL7
19,500	400W-750W	IAMLGL8
24,000	1000W	IAMLHL1
30,000	1000-1500W	IAMLHL2
38,000	1500W	IAMLHL3

- Choice of optics for optimal light distribution in a variety of applications.
- Separate field wiring compartment with screw terminal block for easy and secure connection can accept 0.14 - 6 mm² (26 - 10 AWG) wire.
- Wiring compartment has two 3/4" NPT entries in bottom and one 3/4" NPT entry on top. Optional M20 metric adapters available.
- High Bay mounting achieved by using 3/4" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.
- Yoke bracket is designed to accommodate traditional Areamaster brackets and slipfitters for easy retrofit. Optional stainless steel yoke bracket is available.
- Choice of color temperature (CCT): 5000K (70 CRI) cool white, 4000K (80 CRI) neutral white, 3000K (80 CRI) warm white, 1800K (70 CRI), or Amber (56 CRI).
- L70 Ratings:

+25 °C (+77 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 200,000 hours
+65 °C (+149 °F)	Reported	> 60,000 hours
Ambient Temperature	Calculated	> 135,000 hours
- Rugged and compact housing with superior thermal design translates to long luminaire life.
- Heavy duty, high temperature silicone rubber gaskets.
- 0-10 Vdc Dimming standard for all configurations.
- Thermal shock and impact resistant clear or frosted glass lens.



IAMLG

IAMLH

- Standard 6 kV/3 kA surge protection. Optional 10 kV/5 kA additional surge protection available.
- Captive fasteners secure one piece lens.
- Field replaceable LED driver and lens cover.
- Photometric data and electronic drawings available upon request.

Warranty ②

- 10 year standard warranty.

Controls

- Dimming:
 - Luminaire has a two-wire, 0-10Vdc variable dimming input port for controlling the light output - for BU voltages only.
 - Standard operating temperature models: from 10% to 100% of the rated lumen output.
 - Cold temperature option models: from 0% to 100% of the rated lumen output.
- Group Lighting Controls:
 - Simplify installation of energy saving lighting controls.
 - Control up to 10 luminaires over a distance of 60 meters (200 ft) with Mercmaster Connect LED integrated dimming controller.
 - Daisy chain the luminaires on the same circuit breaker by wiring the 0-10V dimming leads to the Connected luminaire. Enable the Mercmaster Connect's advanced capabilities to extend daylight harvesting (adjustable output), motion sensing (up to 12 meters [40 ft]) and scheduling features (up to 4 time periods per day) with the group of lights.
 - Optionally commission and monitor the group of lights remotely via our Plantweb Insight™ Connected Lighting App.

Options

- Improved safety cable design with multiple retention points, *purchase separately*.
- Guard and visor available, *purchase separately*.
- Slip-fitters and mounting brackets available for easy pole or wall mounting.
- Stainless steel yoke bracket.
- 10 kV/5 kA Surge Protection
- For custom paint colors, contact your Appleton Sales Representative. Minimum quantity applies.

Standard Materials

- Housing and lens cover: copperfree (4/10 of 1% max.) aluminum
- Gaskets: silicone rubber
- Yoke: zinc plated steel
- Bolts: stainless steel
- Close up plugs: (2) aluminum provided
- Guard and safety cable: stainless steel
- Visor: Aluminum

Standard Finishes

- Housing, lens cover, visor and yoke mount: architectural bronze polyester

① Nominal lumen value for 5000K, NEMA Tx7, with clear glass. Detailed lumen information provided in tables.

② For warranty details go to www.appleton.emerson.com.

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

NEC/CEC Certifications and Compliances

- UL Standards: UL1598; UL1598A; UL 8750
- CSA Standards: CSA C22.2 No. 250.0
- cETLus 104364566CHI-001, 104364566CHI-002
- Vibration Rating: 10G, 10 hours, 3 axis at first mode resonant frequency

NOM: Norma Oficial Mexicana

- NOM-003-SCFI-2014 (NMX-J-307-ANCE-2017)
- NOM Certificate: ULM-NOM-15621

IECEE CB Certificates and Compliances

- IEC 60598-1, IEC 60598-2-1, and IEC 60598-2-5
- IECEE CB Certificates: CB 164460-80075815 and CB 164460-80075818
- Index of Protection according to EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Photobiological Safety, IEC 62778 and IEC 62471: Risk Group 1 (RG1)

CE and UKCA Marking

- Safety: EN 60598-1, EN 60598-2-1, and EN 60598-2-5
- EMC: EN 61547, 61000-6-2, 61000-6-4, 61000-3-2; CISPR 15

ABS Certifications

IAMLG and IAMLH: 23-2443580-PDA

DesignLights™ Consortium

- Check DLC QPL for current list of products.

Related Products

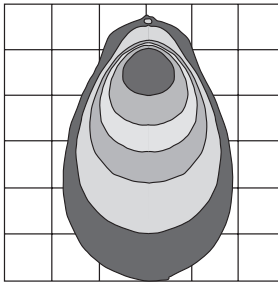
- Areamaster Generation 2 and High Lumen LED Luminaires
- Round Tapered Steel Poles
- Hinged Steel Poles
- Square Tapered Steel Poles
- Square Steel Poles
- Floodlight Mounting Brackets

Illustrated Features

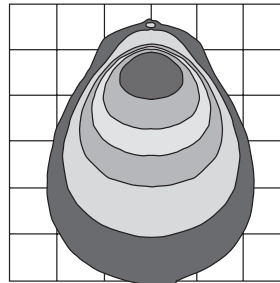
Light Where You Need It

Choose from **3 color temperatures** and a **variety of secondary optics** to put light where your application needs it most. Unsure of which optic is best for your job? Contact your sales representative to get a free 3D Dialux simulation.

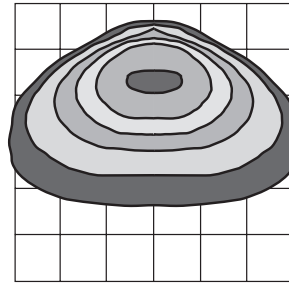
The Right Beam Pattern for Your Application



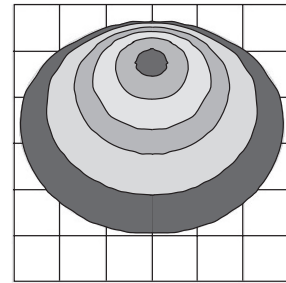
NEMA 3x3 – Very Narrow, spot type forward intensity focus. Enables highest mounting heights (30 m / 100 ft +) while maintaining delivered light on surface (footcandles/lux).



NEMA 5x5 – Narrow, spot type forward intensity focus. Enables higher mounting heights (15 m / 50 ft +) while maintaining delivered light on surface (footcandles/lux).

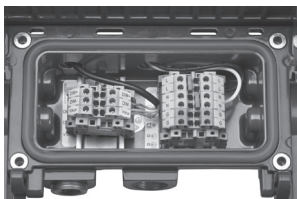


NEMA 7x6 – Mimics traditional HID light distribution. Light intensity is directed forward and side-to-side to maximize spacing between luminaires.



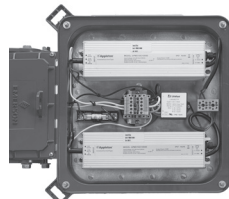
NEMA 7x7 – Uniform light spread, perfect for most typical flood lighting applications.

Robust Design



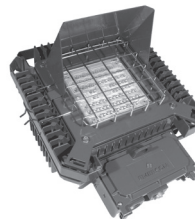
Front-Facing Wiring Compartment:

Gasketed front wiring compartment with screw terminal block, and captive screws offers unmatched installation ease and convenience.



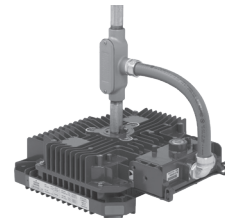
Replaceable Drivers:

Easy to access, field replaceable drivers extend the useful life of your luminaire up to 200,000 hours or more.



Visor and Guard:

Comply with light pollution regulations or control light spread with a visor. Protect the lens with a guard.



High Bay Mount:

Use 3/4" NPT threaded non-penetrating blind hold centered in top of luminaire with integral set screw. Wire via wiring compartment.

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Industrial Areamaster™ Generation 2 Series Luminaires — Low Lumen Model

<p>IAMLG</p> <p>Series Prefix: IAMLG: Industrial Areamaster Generation 2 LED</p>	<p>L7</p> <p>Lumen Level: ① L6 - 9,500 L7 - 15,000 L8 - 19,500</p>	<p>C</p> <p>Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)</p>	<p>G</p> <p>Diffusion: G - Clear Glass F - Frosted Glass D - Diffused Polycarbonate ②</p>	<p>7</p> <p>Beam Spread: 6 - NEMA 7x7 (non-optic) 7 - NEMA 7x6</p>	<p>BU</p> <p>Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ③</p>	<p>F</p> <p>Fusing Options: Blank - No Fusing F - Fusing ④</p>	<p>S</p> <p>Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ⑤</p>	<p>M</p> <p>Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑥</p>	<p>C</p> <p>Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑦</p>	<p>P</p> <p>Pre-Wired Options: ⑧ Blank - No Pre-wired options P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)</p>
---	---	--	--	---	---	---	---	---	--	--

① All lumen values are typical (tolerance +/- 10%).

② Diffused Polycarbonate lens available for NEC/CEC only. Diffused Polycarbonate lens not available with Cold Start option.

③ BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

④ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

⑤ 10kV Surge Protection not available with Cold Start option.

⑥ M20 Metric Cable Entry Adapter not available with Pre-Wired options.

⑦ Cold Start option available for NEC/CEC only. Cold Start option not available with Diffused Polycarbonate lens, BH voltage, Fusing or 10kV Surge Protection.

⑧ Pre-Wiring available for NEC/CEC only. Pre-Wiring not available with Metric Adapter option. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option.

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Order Using Catalog Numbering Guide — Industrial Areamaster™ LED Series Luminaires — High Lumen Model

IAMLH	L2	C	G	Z	BU	F	S	M	C	P
Series Prefix: IAMLH: Industrial Areamaster Generation 2 HL LED	Lumen Level: ① L1 - 24,000 L2 - 30,000 L3 - 38,000	Color Temperature (CCT): C - 5000K (70 CRI) N - 4000K (80 CRI) W - 3000K (80 CRI) S - 1800K (70 CRI) A - Amber (56 CRI)	Diffusion: G - Clear Glass F - Frosted Glass	Beam Spread: 3 - NEMA 3x3 5 - NEMA 5x5 6 - NEMA 7x7 (non-optic) 7 - NEMA 7x6	Voltage: BU - 120-277 Vac, 50/60 Hz, 125-300 Vdc BH - 347-480 Vac, 50/60 Hz ②	Fusing Options: Blank - No Fusing F - Fusing ③	Surge Options: Blank - 6 kV Surge Protection (Standard) S - 10 kV Surge Protection ④	Metric Adapter Options: Blank - No Metric Cable Entry Adapter M - M20 Metric Cable Entry Adapter (Quantity: 1) ⑤	Cold Temperature Options: Blank - Standard Temperature (-40 °C) C - Cold Temperature (-55 °C) ⑥	Pre-Wired Options: ⑦ Blank - No Pre-wired options P - Pre-wired (10 Foot Cord; 3 Conductors; Power without Dimming) D - Pre-wired (10 Foot Cord; 5 Conductors; Power and Dimming)

① All lumen values are typical (tolerance +/- 10%).

② BH voltage available for NEC/CEC only. BH voltage not available with Cold Start option. Dimming not available with BH voltage.

③ Use of fuse voids Marine rating. Fusing available for NEC/CEC only. Fusing not available with Cold Start option.

④ 10kV Surge Protection not available with Cold Start option.

⑤ M20 Metric Cable Entry Adapter not available with Pre-Wired options.

⑥ Cold Start option available for NEC/CEC only. Cold Start option not available with BH voltage, Fusing or 10kV Surge Protection.

⑦ Pre-Wiring available for NEC/CEC only. Pre-Wiring not available with Metric Adapter option. Cord grip used with Pre-Wiring option is Type 3R rated. IP66/IP67 and Marine rating is not available with Pre-Wiring option.

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Low Lumen Model ① 3000K, 4000K, 5000K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
IAMLGL6	175-250W	NEMA 7x6	3000K	80	7,350	105	4000K	80	8,500	121	5000K	70	9,500	136
		NEMA 7x7	3000K	80	7,650	109	4000K	80	9,000	129	5000K	70	9,900	141
IAMLGL7	250-400W	NEMA 7x6	3000K	80	11,000	99	4000K	80	12,950	117	5000K	70	14,500	131
		NEMA 7x7	3000K	80	11,500	104	4000K	80	13,650	123	5000K	70	15,000	135
IAMLGL8	400-750W	NEMA 7x6	3000K	80	14,500	95	4000K	80	16,550	109	5000K	70	18,500	122
		NEMA 7x7	3000K	80	15,000	99	4000K	80	17,550	115	5000K	70	19,500	128
Frosted Glass														
IAMLGL6	175-250W	NEMA 7x6	3000K	80	6,200	89	4000K	80	7,200	103	5000K	70	7,900	113
		NEMA 7x7	3000K	80	6,400	91	4000K	80	7,500	107	5000K	70	8,300	119
IAMLGL7	250-400W	NEMA 7x6	3000K	80	9,400	85	4000K	80	10,950	99	5000K	70	12,000	108
		NEMA 7x7	3000K	80	9,700	87	4000K	80	11,350	102	5000K	70	12,500	113
IAMLGL8	400-750W	NEMA 7x6	3000K	80	12,000	79	4000K	80	14,000	92	5000K	70	15,550	102
		NEMA 7x7	3000K	80	12,500	82	4000K	80	14,500	95	5000K	70	16,550	109
Diffused Polycarbonate														
IAMLGL6	175-250W	NEMA 7x6	3000K	80	5,950	85	4000K	80	6,950	99	5000K	70	7,700	110
		NEMA 7x7	3000K	80	6,250	89	4000K	80	7,300	104	5000K	70	8,050	115
IAMLGL7	250-400W	NEMA 7x6	3000K	80	9,000	81	4000K	80	10,550	95	5000K	70	11,700	105
		NEMA 7x7	3000K	80	9,450	85	4000K	80	11,000	99	5000K	70	12,200	110
IAMLGL8	400-750W	NEMA 7x6	3000K	80	11,500	76	4000K	80	13,500	89	5000K	70	15,000	99
		NEMA 7x7	3000K	80	12,100	80	4000K	80	14,150	93	5000K	70	15,650	103

① All lumen values are typical (tolerance +/-10%).

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — Low Lumen Model ① Amber, 1800K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
IAMLGL6	175-250W	NEMA 7x6	Amber	56	5,400	78	1800K	70	6,150	89
		NEMA 7x7	Amber	56	5,900	82	1800K	70	6,700	94
IAMLGL7	250-400W	NEMA 7x6	Amber	56	8,150	73	1800K	70	9,300	84
		NEMA 7x7	Amber	56	8,550	78	1800K	70	9,800	89
IAMLGL8	400-750W	NEMA 7x6	Amber	56	10,150	67	1800K	70	11,650	77
		NEMA 7x7	Amber	56	10,450	69	1800K	70	12,250	81
Frosted Glass										
IAMLGL6	175-250W	NEMA 7x6	Amber	56	4,550	66	1800K	70	5,250	76
		NEMA 7x7	Amber	56	4,950	69	1800K	70	5,600	79
IAMLGL7	250-400W	NEMA 7x6	Amber	56	6,900	63	1800K	70	7,900	71
		NEMA 7x7	Amber	56	7,150	65	1800K	70	8,250	75
IAMLGL8	400-750W	NEMA 7x6	Amber	56	8,500	56	1800K	70	9,950	66
		NEMA 7x7	Amber	56	8,800	58	1800K	70	10,300	68
Diffused Polycarbonate										
IAMLGL6	175-250W	NEMA 7x6	Amber	56	4,300	62	1800K	70	4,950	72
		NEMA 7x7	Amber	56	4,700	66	1800K	70	5,350	75
IAMLGL7	250-400W	NEMA 7x6	Amber	56	6,600	60	1800K	70	7,500	67
		NEMA 7x7	Amber	56	6,850	62	1800K	70	7,850	71
IAMLGL8	400-750W	NEMA 7x6	Amber	56	8,050	53	1800K	70	9,450	62
		NEMA 7x7	Amber	56	8,350	55	1800K	70	9,850	65

① All lumen values are typical (tolerance +/-10%).

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — High Lumen Model ① 3000K, 4000K, 5000K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass														
IAMLHL1	1000W	NEMA 3x3	3000K	80	19,350	109	4000K	80	20,250	114	5000K	70	22,750	128
		NEMA 5x5	3000K	80	20,850	117	4000K	80	21,900	123	5000K	70	25,000	140
		NEMA 7x6	3000K	80	19,000	107	4000K	80	20,500	115	5000K	70	23,000	129
		NEMA 7x7	3000K	80	20,100	113	4000K	80	21,300	120	5000K	70	24,250	136
IAMLHL2	1000-1500W	NEMA 3x3	3000K	80	23,450	106	4000K	80	24,600	111	5000K	70	27,500	124
		NEMA 5x5	3000K	80	25,500	115	4000K	80	26,700	120	5000K	70	30,000	135
		NEMA 7x6	3000K	80	23,200	105	4000K	80	25,000	113	5000K	70	27,950	126
IAMLHL3	1500W	NEMA 7x7	3000K	80	24,650	111	4000K	80	26,100	118	5000K	70	29,750	134
		NEMA 3x3	3000K	80	29,500	99	4000K	80	30,950	104	5000K	70	34,750	117
		NEMA 5x5	3000K	80	32,000	107	4000K	80	33,600	113	5000K	70	37,500	126
		NEMA 7x6	3000K	80	29,300	98	4000K	80	31,500	106	5000K	70	35,350	119
IAMLHL1	1000W	NEMA 7x7	3000K	80	31,000	104	4000K	80	32,800	110	5000K	70	37,400	126
		NEMA 3x3	3000K	80	17,200	97	4000K	80	17,950	101	5000K	70	20,000	112
		NEMA 5x5	3000K	80	18,600	104	4000K	80	19,350	109	5000K	70	21,550	121
		NEMA 7x6	3000K	80	16,150	91	4000K	80	17,300	97	5000K	70	19,500	110
IAMLHL2	1000-1500W	NEMA 7x7	3000K	80	16,850	95	4000K	80	18,000	101	5000K	70	20,500	115
		NEMA 3x3	3000K	80	21,000	95	4000K	80	21,950	99	5000K	70	24,750	111
		NEMA 5x5	3000K	80	22,650	102	4000K	80	23,600	106	5000K	70	26,000	117
		NEMA 7x6	3000K	80	19,600	88	4000K	80	21,000	95	5000K	70	23,700	107
IAMLHL3	1500W	NEMA 7x7	3000K	80	20,550	93	4000K	80	21,950	99	5000K	70	25,000	113
		NEMA 3x3	3000K	80	26,400	89	4000K	80	27,500	92	5000K	70	31,000	104
		NEMA 5x5	3000K	80	28,600	96	4000K	80	29,750	100	5000K	70	33,500	112
		NEMA 7x6	3000K	80	24,750	83	4000K	80	26,550	89	5000K	70	29,950	101
IAMLHL3	1500W	NEMA 7x7	3000K	80	26,000	87	4000K	80	27,700	93	5000K	70	31,500	106

① All lumen values are typical (tolerance +/-10%).

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Lumen Output (Efficacy) — High Lumen Model ① Amber, 1800K

Model	HID Equivalency	Light Distribution Pattern	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)	CCT	CRI	Lumen Output	Efficacy (lm/W)
Clear Glass										
IAMLHL1	1000W	NEMA 3x3	Amber	56	14,050	76	1800K	70	14,450	78
		NEMA 5x5	Amber	56	14,350	78	1800K	70	15,900	86
		NEMA 7x6	Amber	56	13,350	73	1800K	70	15,050	82
		NEMA 7x7	Amber	56	14,150	77	1800K	70	15,850	86
IAMLHL2	1000-1500W	NEMA 3x3	Amber	56	16,200	73	1800K	70	16,850	76
		NEMA 5x5	Amber	56	16,700	75	1800K	70	18,600	83
		NEMA 7x6	Amber	56	15,600	71	1800K	70	17,550	79
		NEMA 7x7	Amber	56	16,550	75	1800K	70	18,500	83
IAMLHL3	1500W	NEMA 3x3	Amber	56	18,750	63	1800K	70	19,850	67
		NEMA 5x5	Amber	56	19,850	67	1800K	70	21,850	73
		NEMA 7x6	Amber	56	18,450	62	1800K	70	20,700	69
		NEMA 7x7	Amber	56	19,500	66	1800K	70	21,800	73
Frosted Glass										
IAMLHL1	1000W	NEMA 3x3	Amber	56	12,500	68	1800K	70	12,850	70
		NEMA 5x5	Amber	56	12,650	69	1800K	70	14,200	77
		NEMA 7x6	Amber	56	11,350	62	1800K	70	13,000	71
		NEMA 7x7	Amber	56	12,000	66	1800K	70	13,500	73
IAMLHL2	1000-1500W	NEMA 3x3	Amber	56	14,250	64	1800K	70	15,000	67
		NEMA 5x5	Amber	56	14,850	67	1800K	70	16,500	74
		NEMA 7x6	Amber	56	13,250	60	1800K	70	15,200	68
		NEMA 7x7	Amber	56	14,050	63	1800K	70	15,800	71
IAMLHL3	1500W	NEMA 3x3	Amber	56	16,950	57	1800K	70	17,650	59
		NEMA 5x5	Amber	56	17,400	59	1800K	70	19,500	65
		NEMA 7x6	Amber	56	15,800	53	1800K	70	17,900	60
		NEMA 7x7	Amber	56	16,450	55	1800K	70	18,600	62

① All lumen values are typical (tolerance +/-10%).

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Electrical Specifications ①

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Low Lumen Model					
IAMLGL6	120 Vac	73	0.62	>.9	<20%
	277 Vac	71	0.27		
	125 Vdc	69	0.55	N/A	N/A
	300 Vdc	68	0.23		
	347 Vac	71	0.21	>.9	<20%
	480 Vac	71	0.16		
IAMLGL7	120 Vac	111	0.94	>.9	<20%
	277 Vac	106	0.43		
	125 Vdc	113	0.90	N/A	N/A
	300 Vdc	111	0.37		
	347 Vac	115	0.33	>.9	<20%
	480 Vac	115	0.25		
IAMLGL8	120 Vac	154	1.30	>.9	<20%
	277 Vac	146	0.56		
	125 Vdc	156	1.25	N/A	N/A
	300 Vdc	152	0.51		
	347 Vac	150	0.43	>.9	<20%
	480 Vac	149	0.32		
High Lumen Model					
IAMLHL1	120 Vac	180	1.52	>.9	<20%
	277 Vac	176	0.67		
	125 Vdc	172	1.38	N/A	N/A
	300 Vdc	170	0.57		
	347 Vac	179	0.52	>.9	<20%
	480 Vac	179	0.39		
IAMLHL2	120 Vac	231	1.94	>.9	<20%
	277 Vac	231	0.88		
	125 Vdc	220	1.76	N/A	N/A
	300 Vdc	217	0.72		
	347 Vac	219	0.64	>.9	<20%
	480 Vac	219	0.47		
IAMLHL3	120 Vac	317	2.67	>.9	<20%
	277 Vac	303	1.15		
	125 Vdc	305	2.44	N/A	N/A
	300 Vdc	298	0.99		
	347 Vac	299	0.87	>.9	<20%
	480 Vac	298	0.63		

Note: Surge Protection: Integral 6 kV surge protection. Option for up to 10 kV surge protection.

① All values are typical (tolerance +/-10%).

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight


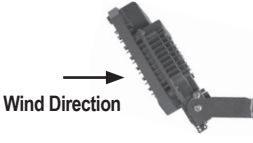

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Luminaire Category		Frontal Projected Area (FPA) ft ²	Drag Coefficient (DC)	Effective Projected Area (EPA) = FPA*DC ft ²
Low Lumen Model — IAMLG				
90° to Ground-Worst Case Mounting		1.52	1.20	1.82
45° to Ground-Standard Mounting		1.07	1.2	1.28
High Lumen Model — IAMLH				
90° to Ground-Worst Case Mounting		2.04	1.20	2.45
45° to Ground-Standard Mounting		1.44	1.20	1.73

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations








NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Crossarm Mounting Bracket			
	<p>Has 180° horizontal adjustment — degree marked. Facilitates mounting floodlight to crossarm or other flat surface, or to GAM8WB. Includes floodlight yoke bolts. Malleable iron, zinc plated, chromate sealed, architectural bronze polyester finish.</p>	1.4 (3.1)	GAM8CA
Pipe or Wall Mount Bracket			
	<p>Used with GAM8CA. Clamps to 1" to 2-1/2" pipe, vertical or horizontal, or mounts on flat surfaces. Includes U-bolt and crossarm bracket bolts. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.</p>	2.9 (6.4)	GAM8WB
	<p><i>Crossarm Mounting Bracket (GAM8CA) used with Pipe or Wall Mount Bracket (GAM8WB).</i></p>		
Poletop Slip-Fitter			
	<p>Slip-fits 1" or 1-1/2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.</p>	2.4 (5.3)	AMLEDSF1
Poletop Slip-Fitter			
	<p>Slip-fits 1-1/2" or 2" pipe size poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Body is malleable iron-zinc plated, chromate sealed, with cast aluminum cap. Assembly has architectural bronze polyester finish.</p>	2.4 (5.3)	GSF20
Poletop Slip-Fitter			
	<p>Slip-fits 2" or 2-1/2" poletop tenons. Includes floodlight yoke bolts, 3 locking bolts, and cord grip. Malleable iron, zinc plated, chromate sealed, with architectural bronze polyester finish.</p>	2.8 (6.2)	GAM8SF

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations


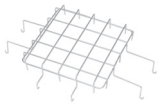

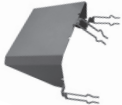



NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Accessories and Replacement Parts

	Description	Weight in kg (lbs)	Catalog Number
Wall Mount Bracket			
	Used with GAM8SF to provide a wall mounting option. Galvanized Steel.	4.8 (10.5)	GPSWB6GAL
Wire Guard - Stainless Steel			
	IAMLGL6, IAMLGL7, IAMLGL8	0.2 (0.4)	LGGUARD
	IAMLHL1, IAMLHL2, IAMLHL3		LHGUARD
Safety Cable			
	Stainless steel - 1.22 m (4 ft)	0.2 (0.4)	LEDSC
	Stainless steel - 2.44 m (8 ft)	0.4 (0.8)	LEDSC8
Visor for Dark Sky Friendly Design - Steel with architectural bronze polyester finish			
	IAMLGL6, IAMLGL7, IAMLGL8	0.2 (0.4)	AMLGV
	IAMLHL1, IAMLHL2, IAMLHL3		AMLHV
Portable Floodlight Base			
	Portable floodlight base for temporary lighting applications. To be used with wire guard. Malleable iron with architectural bronze polyester finish.	2.4 (5.2)	GAMPFB
Replacement Covers/Lenses			
	Clear Glass — IAMLGL6, IAMLGL7, IAMLGL8	2.2 (4.8)	AMLGCLEAR
	Frosted Glass — IAMLGL6, IAMLGL7, IAMLGL8	2.0 (4.5)	AMLGFROST
	Diffused Polycarbonate — IAMLGL6, IAMLGL7, IAMLGL8	1.6 (3.5)	AMLGDIFFP
	Clear Glass — IAMLHL1, IAMLHL2, IAMLHL3	2.4 (5.3)	AMLHCLEAR
	Frosted Glass — IAMLHL1, IAMLHL2, IAMLHL3	2.4 (5.3)	AMLHFROST
Yoke Mount Bracket			
	Stainless Steel Yoke Mount Bracket. For installations requiring a higher degree of corrosion protection. Made with all stainless steel components, no painted finish.	1.8 (4.0)	AMLYMSS
	Architectural Bronze Replacement Yoke Bracket - Matches mounting hole pattern of Crouse-Hinds™ ± Champ FMVA and Champ Pro PFMA LED series floodlights	1.41 (3.1)	AMLYMCH

± Crouse-Hinds and Champ are registered trademarks of Cooper Industries, Inc., a wholly owned subsidiary of the Eaton Corporation plc.

Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations



NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Replacement Drivers

	Model	Voltage	Driver Wattage	Constant Current Setting	Catalog Number	
Low Lumen Model - Standard Temperature (-40 °C)						
	IAMLGL6C, IAMLGL6N, IAMLGL6W, IAMLGL6S, IAMLGL6A	BU BH	100 Watt	410mA	APMS100C105UD41 APMS100C105HD41	
	IAMLGL7W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65	
	IAMLGL7C, IAMLGL7N, IAMLGL7S, IAMLGL7A	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68	
	IAMLGL8W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89	
	IAMLGL8C, IAMLGL8N, IAMLGL8S, IAMLGL8A	BU BH	150 Watt	930mA	APMS150C105UD93 APMS150C105HD93	
	Cold Temperature (-55 °C)					
	IAMLGL6 - all CCTs	BU	100 Watt	410mA	APMZ100C090UD41	
	IAMLGL7 - all CCTs	BU	150 Watt	680mA	APMZ150C135UD68	
	IAMLGL8 - all CCTs	BU	150 Watt	930mA	APMZ150C135UD93	
	High Lumen Model - Standard Temperature (-40 °C)					
	IAMLHL1C, IAMLHL1N, IAMLHL1W, IAMLHL1S, IAMLHL1A	BU BH	100 Watt	530mA	APMS100C105UD53 APMS100C105HD53	
	IAMLHL2W	BU BH	150 Watt	650mA	APMS150C105UD65 APMS150C105HD65	
	IAMLHL2C, IAMLHL2N, IAMLHL2S, IAMLHL2A	BU BH	150 Watt	680mA	APMS150C105UD68 APMS150C105HD68	
	IAMLHL3W	BU BH	150 Watt	890mA	APMS150C105UD89 APMS150C105HD89	
	IAMLHL3C, IAMLHL3N, IAMLHL3S, IAMLHL3A	BU BH	150 Watt	915mA	APMS150C105UD91 APMS150C105HD91	
	Cold Temperature (-55 °C)					
	IAMLHL1 - all CCTs	BU	100 Watt	530mA	APMZ100C090UD53	
	IAMLHL2 - all CCTs	BU	150 Watt	680mA	APMZ150C135UD68	
	IAMLHL3 - all CCTs	BU	150 Watt	915mA	APMZ150C135UD93	

Luminaire Weights

Description	Weight in kg (lbs)
Low Lumen Model — IAMLGL6, IAMLGL7, IAMLGL8 Luminaires	9.8 (21.6)
High Lumen Model — IAMLHL1, IAMLHL2, IAMLHL3 Luminaires	16.1 (35.4)

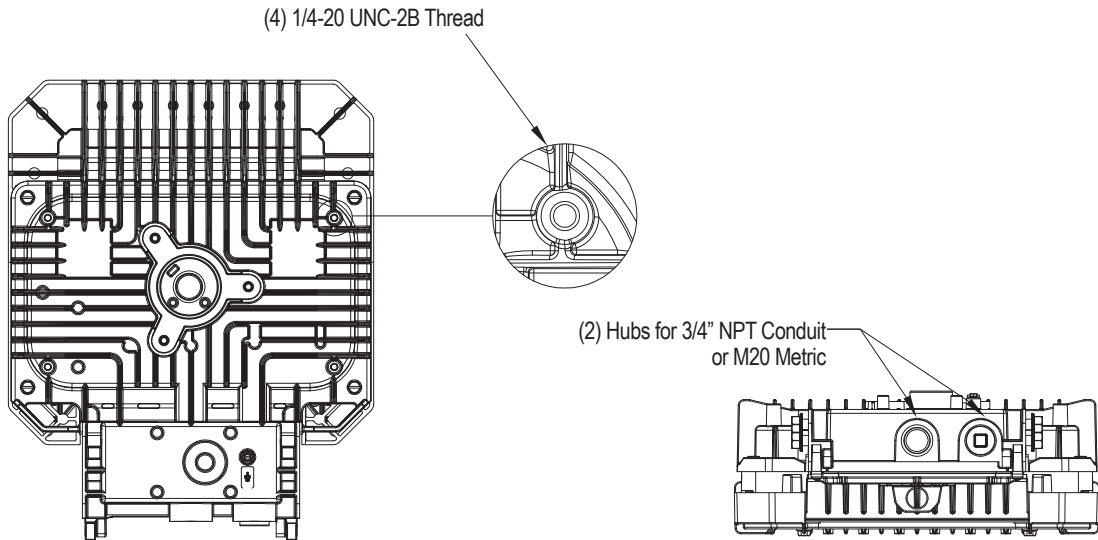
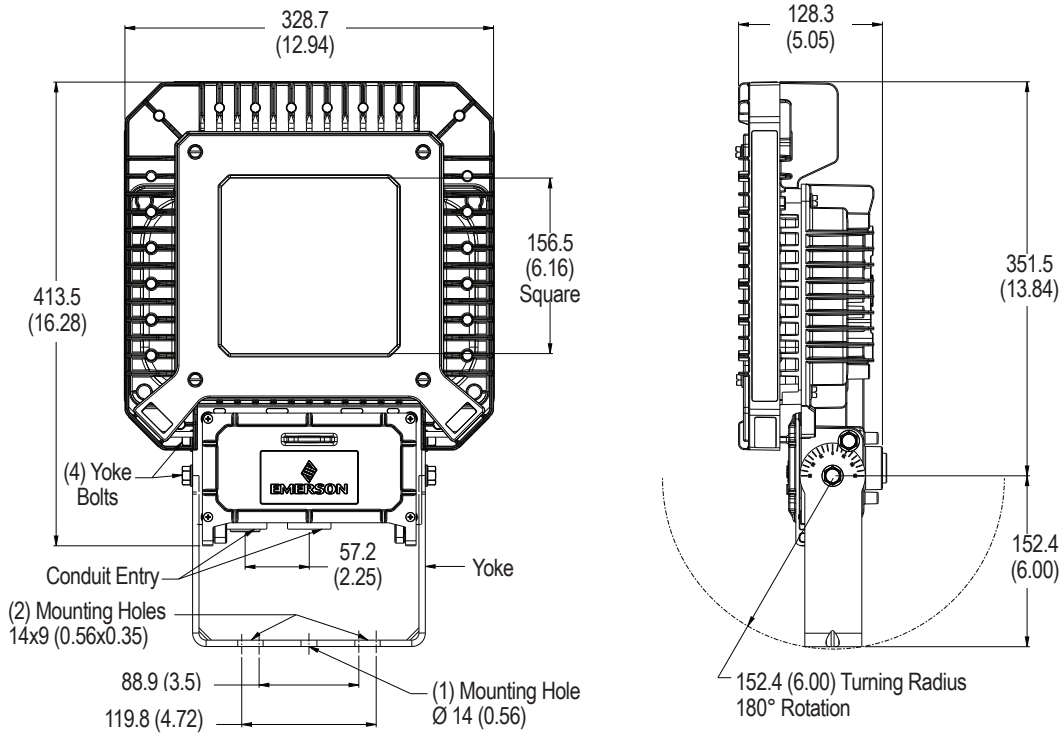
Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations
 IEC/CEB: IK08 | IP66
 Markings: CE | UKCA
 Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

IAMLG Dimensions in Millimeters (Inches) — Floodlight — Low Lumen Model



Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

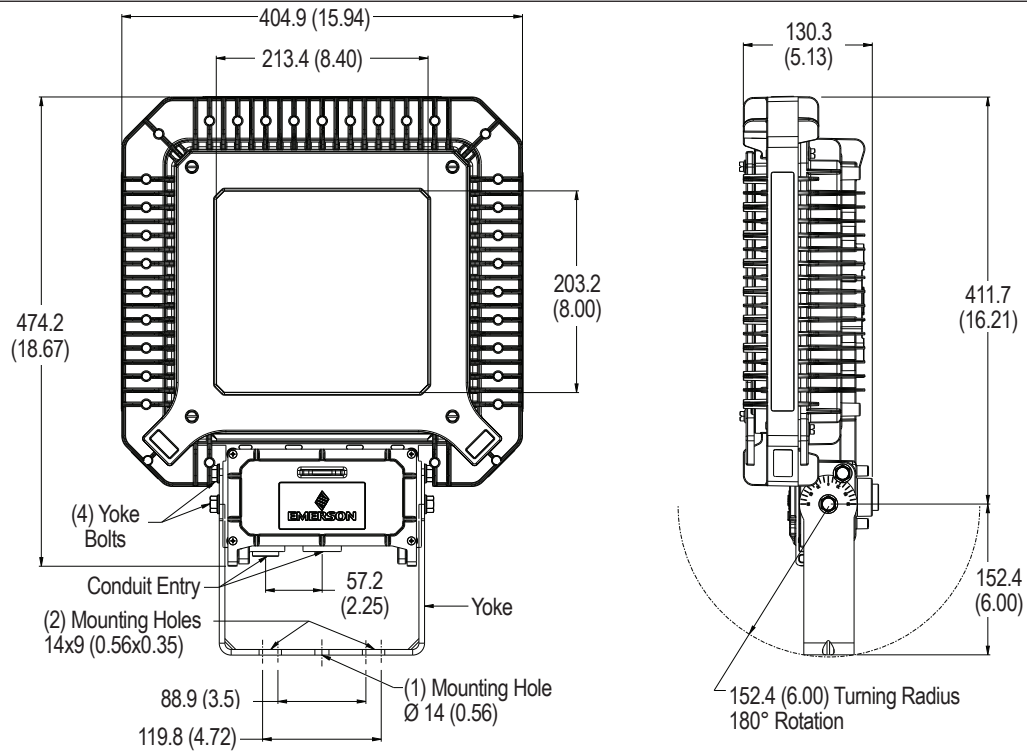
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

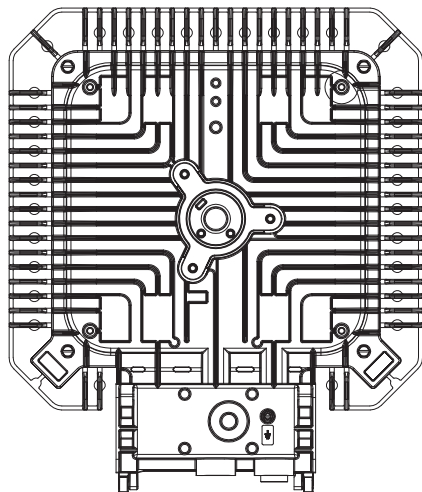
Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

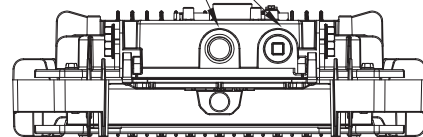
IAMLH Dimensions in Millimeters (Inches) — Floodlight — High Lumen Model



(4) 1/4-20 UNC-2B Thread



(2) Hubs for 3/4" NPT Conduit or M20 Metric



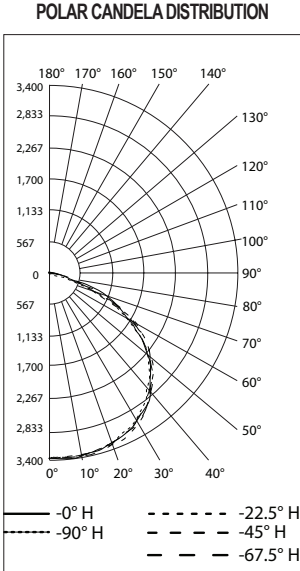
Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight
Ordinary Locations

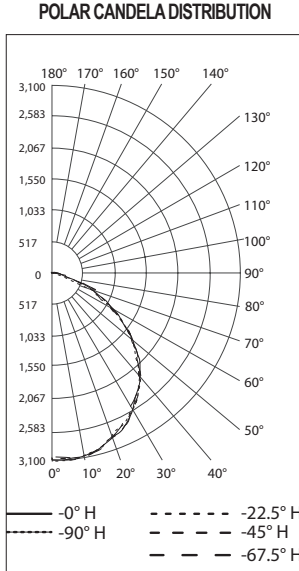
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

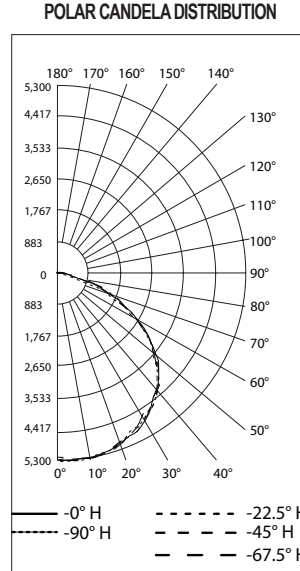
NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLGL6CG6BU**
Luminaire Lumens : 9,964 lumens



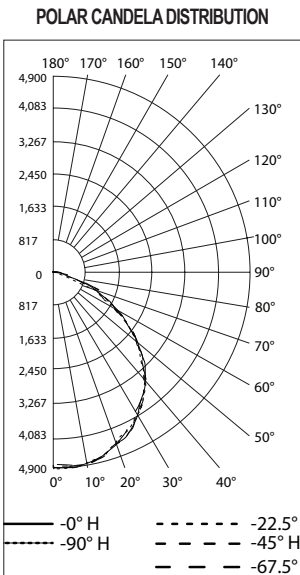
NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLGL6CF6BU**
Luminaire Lumens : 8,115 lumens



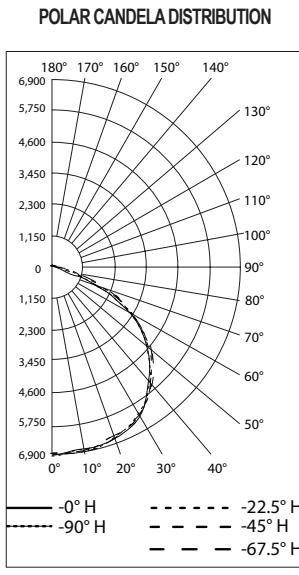
NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLGL7CG6BU**
Luminaire Lumens : 15,320 lumens



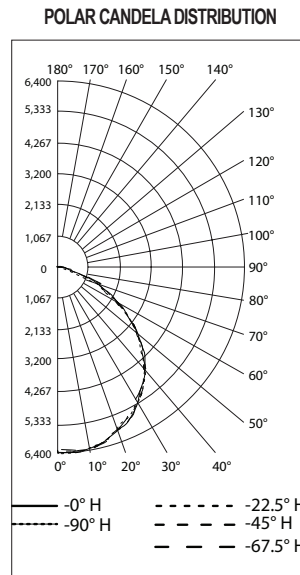
NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLGL7CF6BU**
Luminaire Lumens : 12,782 lumens



NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLGL8CG6BU**
Luminaire Lumens : 19,895 lumens



NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLGL8CF6BU**
Luminaire Lumens : 16,503 lumens



Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Note: American Bureau of Shipping (ABS) Certified | 10G Vibration

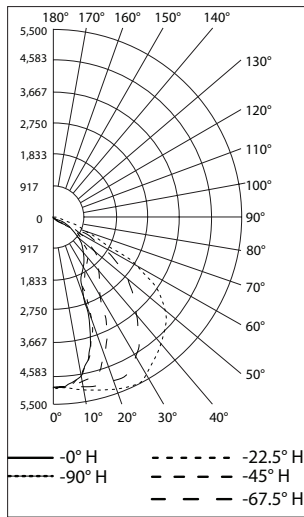
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLGL6CG7BU

Luminaire Lumens : 9,086 lumens

POLAR CANDELA DISTRIBUTION

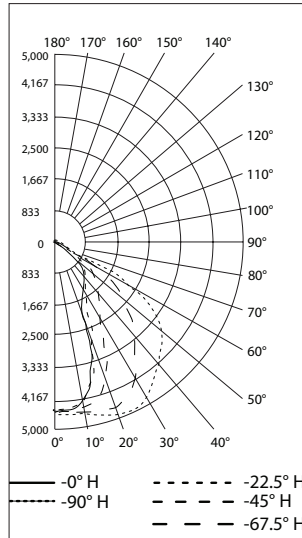


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLGL6WG7BU

Luminaire Lumens : 8,111 lumens

POLAR CANDELA DISTRIBUTION

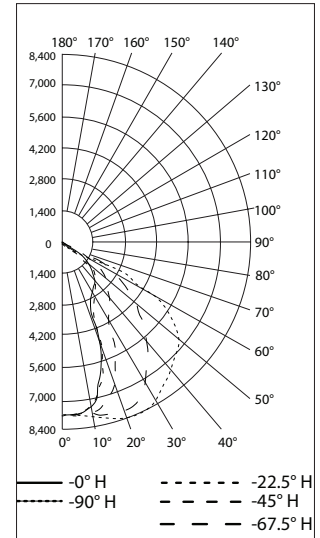


NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLGL7CG7BU

Luminaire Lumens : 14,205 lumens

POLAR CANDELA DISTRIBUTION

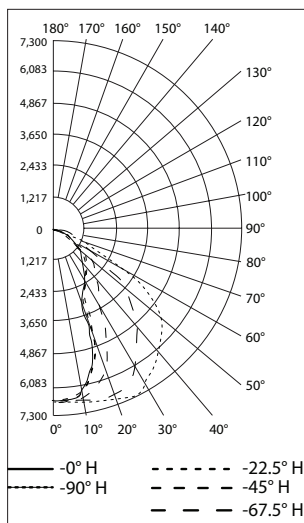


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLGL7WG7BU

Luminaire Lumens : 11,971 lumens

POLAR CANDELA DISTRIBUTION

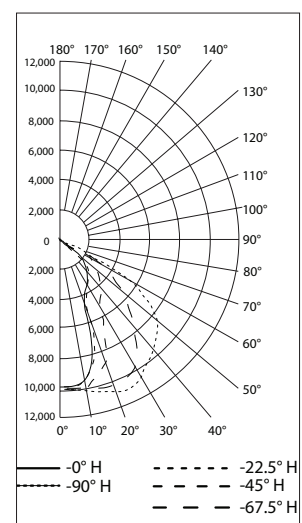


NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLGL8CG7BU

Luminaire Lumens : 18,467 lumens

POLAR CANDELA DISTRIBUTION

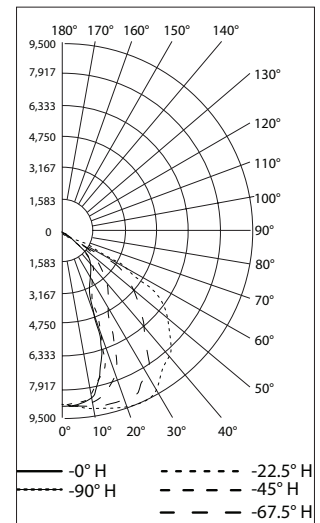


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLGL8WG7BU

Luminaire Lumens : 15,556 lumens

POLAR CANDELA DISTRIBUTION



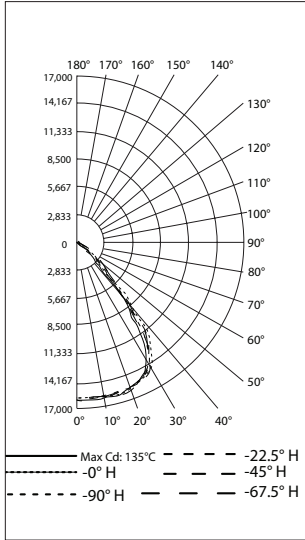
Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight
Ordinary Locations

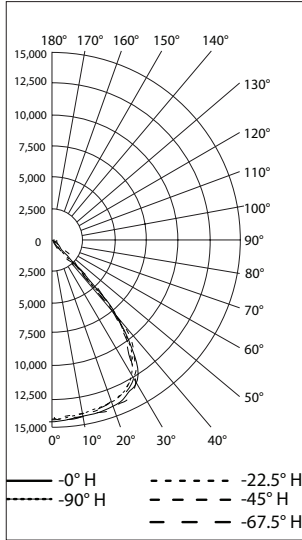
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

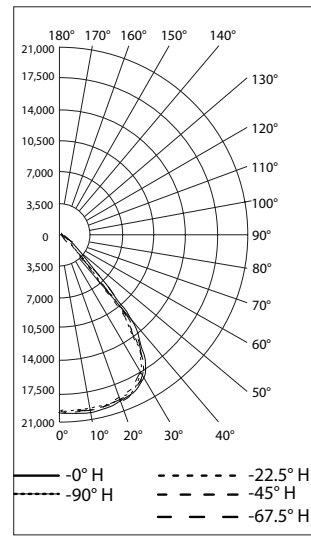
NEMA 5x5, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL1CG5BU**
Luminaire Lumens : 24,140 lumens
POLAR CANDELA DISTRIBUTION



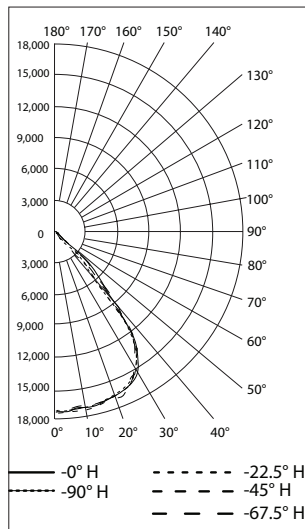
NEMA 5x5, Clear Glass, 3000K CCT
REPORT NUMBER : **IAMLHL1WG5BU**
Luminaire Lumens : 21,416 lumens
POLAR CANDELA DISTRIBUTION



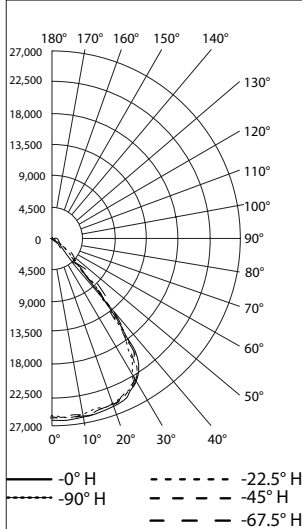
NEMA 5x5, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL2CG5BU**
Luminaire Lumens : 30,068 lumens
POLAR CANDELA DISTRIBUTION



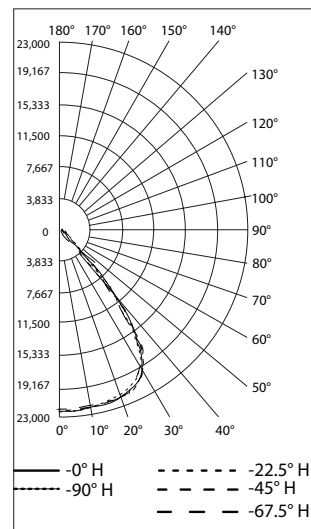
NEMA 5x5, Clear Glass, 3000K CCT
REPORT NUMBER : **IAMLHL2WG5BU**
Luminaire Lumens : 25,490
POLAR CANDELA DISTRIBUTION



NEMA 5x5, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL3CG5BU**
Luminaire Lumens : 38,350 lumens
POLAR CANDELA DISTRIBUTION



NEMA 5x5, Clear Glass, 3000K CCT
REPORT NUMBER : **IAMLHL3WG5BU**
Luminaire Lumens : 32,835 lumens
POLAR CANDELA DISTRIBUTION



Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight

Ordinary Locations

NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations

IECEE CB: IK08 | IP66

Markings: CE | UKCA

Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

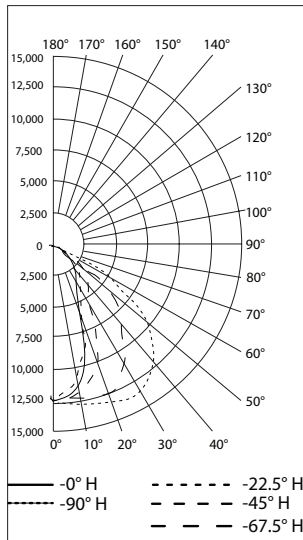
Photometric Data — DATA SHOWN IS ABSOLUTE

NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLHL1CG7BU

Luminaire Lumens : 22,661 lumens

POLAR CANDELA DISTRIBUTION

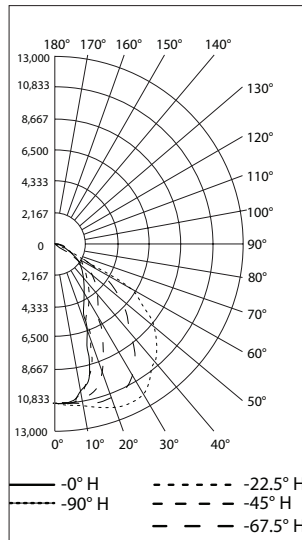


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLHL1WG7BU

Luminaire Lumens : 19,753

POLAR CANDELA DISTRIBUTION

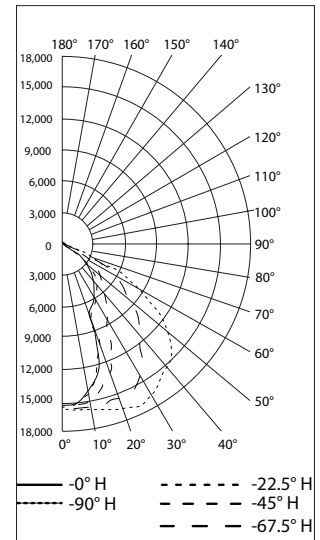


NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLHL2CG7BU

Luminaire Lumens : 28,063 lumens

POLAR CANDELA DISTRIBUTION

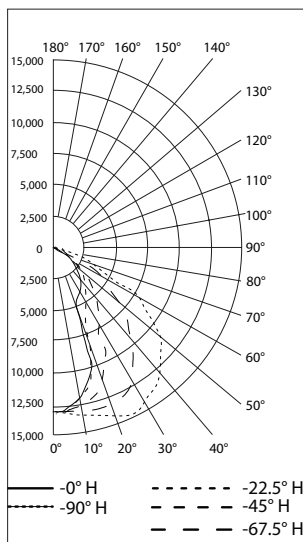


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLHL2WG7BU

Luminaire Lumens : 23,532 lumens

POLAR CANDELA DISTRIBUTION

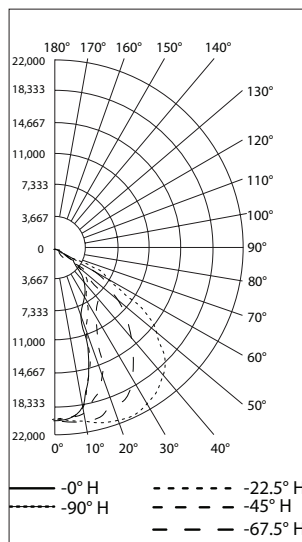


NEMA 7x6, Clear Glass, 5000K CCT

REPORT NUMBER : IAMLHL3CG7BU

Luminaire Lumens : 35,430 lumens

POLAR CANDELA DISTRIBUTION

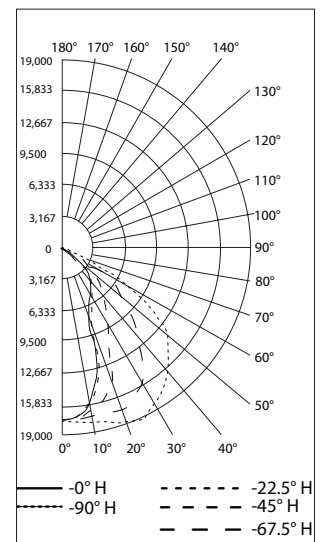


NEMA 7x6, Clear Glass, 3000K CCT

REPORT NUMBER : IAMLHL3WG7BU

Luminaire Lumens : 30,346 lumens

POLAR CANDELA DISTRIBUTION



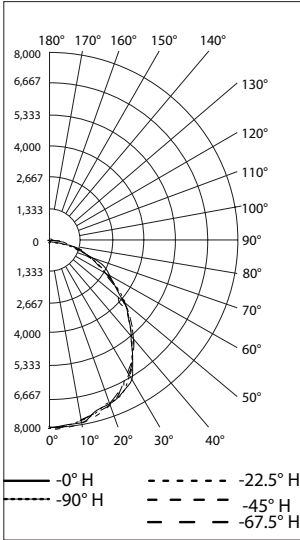
Industrial Areamaster™ Generation 2 and High Lumen LED Series Luminaires

Floodlight
Ordinary Locations

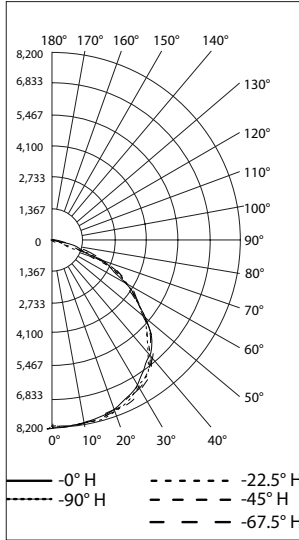
NEC/CEC/NOM: Type 3R, 4, 4X | IP66/67 | Marine outside type (salt water) for USA Only | Wet locations
IECEE CB: IK08 | IP66
Markings: CE | UKCA
Notable: American Bureau of Shipping (ABS) Certified | 10G Vibration

Photometric Data — DATA SHOWN IS ABSOLUTE

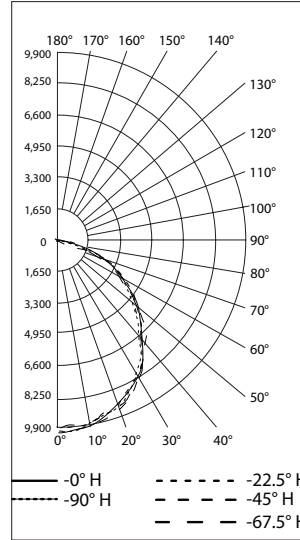
NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLHL1CF6BU**
Luminaire Lumens : 20,578 lumens
POLAR CANDELA DISTRIBUTION



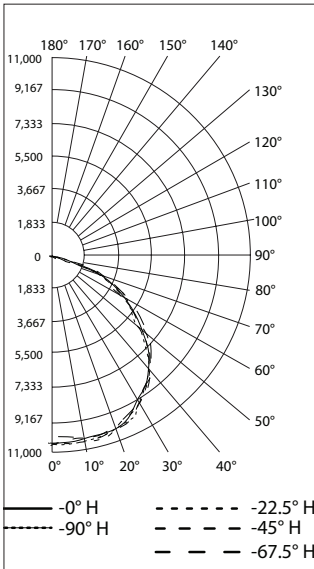
NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL1CG6BU**
Luminaire Lumens : 23,457 lumens
POLAR CANDELA DISTRIBUTION



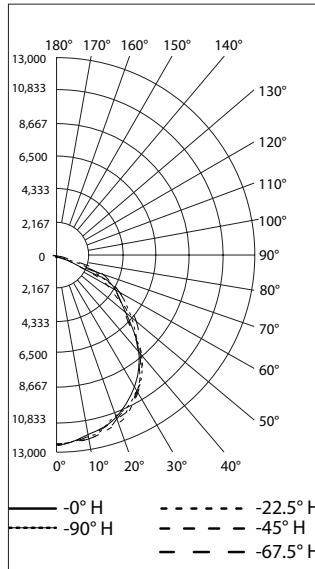
NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLHL2CF6BU**
Luminaire Lumens : 25,616 lumens
POLAR CANDELA DISTRIBUTION



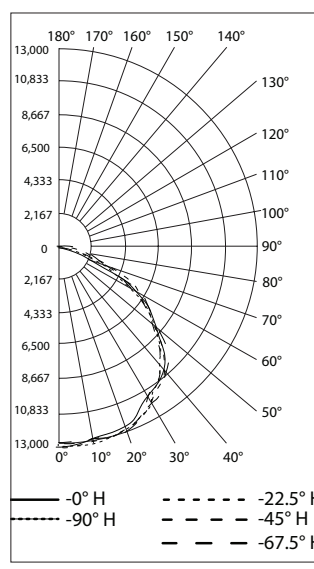
NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL2CG6BU**
Luminaire Lumens : 30,157 lumens
POLAR CANDELA DISTRIBUTION



NEMA 7x7, Frosted Glass, 5000K CCT
REPORT NUMBER : **IAMLHL3CF6BU**
Luminaire Lumens : 31,600 lumens
POLAR CANDELA DISTRIBUTION



NEMA 7x7, Clear Glass, 5000K CCT
REPORT NUMBER : **IAMLHL3CG6BU**
Luminaire Lumens : 37,039 lumens
POLAR CANDELA DISTRIBUTION



ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Provides adequate lighting and/or visual indication of access on exit routes during an evacuation in a hazardous environment.
- Can be installed in hazardous areas designated as Zone 1 and 2 – 21 and 22.
- Typical applications include:
 - Oil refineries
 - Petrochemical plants
 - Pulp and paper mills
 - Hydrogen and Biofuels plants
 - LNG (Liquid Natural Gas) plants

Features

- All versions:
 - Power supply 230 Vac, 50/60 Hz.
 - 1 hour duration (emergency).
 - Threaded access cover with O-ring seal.
 - Can be maintained in hazardous areas as an internal switch cuts off battery supply automatically once the cover is unscrewed and opened.
 - Battery pack.
 - Escape route lighting: 2.4 V - 1.5 Ah (2 cells - Nicd)
 - Space lighting: 7.2 V - 2.2 Ah (6 cells - NiMH) - Flameproof.
 - Padlockable switch is available on switched models which individually cuts off power supply and remote control.
 - Charge indicator by 1 green LED (life time over 10 years).
 - Operates in any position.
 - Connection to plug-in terminal block via 2 x 5 x 2.5 mm² (0.003 x 0.008 x 0.004 in²) terminals.
 - Supplied with two fixing lugs.
 - Reported L70 is >330 000 hours at +25 °C.
 - Automatic built-in self-test system (SATI) with memorization of tests indicated by LEDs.
 - Using a microprocessor and an internal clock, the unit will carry out automatic tests.
 - Weekly test: Lamp check during 6 seconds.
 - Quarterly test: Emergency operation and lamp check for 1 hour.
 - Can be remotely controlled and checked without switching the mains off with remote control unit from Legrand (Catalog Number 03901) or URA (Catalog Number 095448 and 095450) manufacturers.
 - The remote control unit installed in a safe area or inside a flameproof box allows manual ignition of all the units (maximum 300 units) for visual inspection of their operation.
 - Escape route lighting: 55 lumens, 0.50 wattage.
 - Space lighting: 540 lumens, 0.95 wattage.
 - Correlated Color Temperature: 5700K.
- Addressable versions:
 - Operates without additional control lines. Communication between units and the control system is realized via mains borne signals that utilize the existing electrical wiring.
 - Standard control system capacity: one control system for up to 200 emergency lighting units.
 - Optional increased control system capacity: booster (repeater unit) is used to increase the length of the network allowing up to 1000 emergency lighting units to be on one control system. This allows for the use of a single computer to centralize the management of the facilities emergency lighting system. *For more information, contact your local sales representative.*



FDBAESLEDEM

Warranty [Ⓞ]

- 5 year standard warranty.

Options

- Addressable monitoring software, *contact your local sales representative.*
- Low temperature application, *contact your local sales representative.*

Standard Materials

- End caps and cover: aluminum
- O-ring seal: nitrile
- Lens: tempered borosilicate glass
- Fixing brackets: zinc plated steel or 316 stainless steel
- Accessories: white painted galvanized steel
- Guard: zinc plated steel

ATEX/IECEx Certifications and Compliances

- Certification Type: FLd
 - Gas: Zone 1 - 2
 - Conforming to ATEX 2014/34/UE: Ⓢ II 2 G
 - Type of Protection: Ex db IIC Gb
 - Temperature class: T6
 - Dust: Zone 21 - 22
 - Conforming to ATEX 2014/34/UE: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
- Ambient Temperature: - 20 °C to +40 °C (-4 °F C to +104 °F) Ⓞ
- ATEX Certificate: INERIS 15ATEX0056X
- UKEX: CML 21UKEX1155X
- IECEx Certificate: IECEx INE 15.0052X
- Index of Protection according EN/IEC 60529: IP66/68
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm³ (122 in³) - 2 liters
- Conforming to NF AEAS

Other Certifications

- INMETRO Certificate: BVC 17.5709-X Ⓞ

Ⓞ Optimum operating temperature for battery is -5 °C to +30 °C (+23 °F to +86 °F).

Ⓞ Inmetro certification available on special request only. Contact your local sales representative for more information.

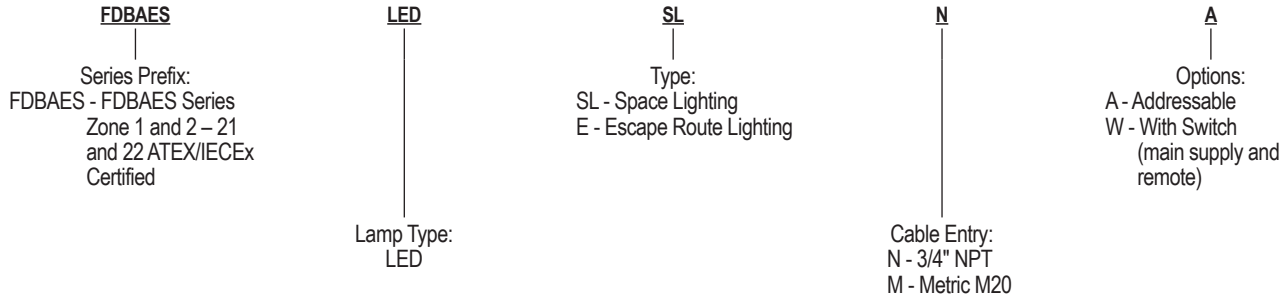
Ⓞ For warranty details go to www.appleton.emerson.com.

ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Order Using Catalog Numbering Guide — FDBAES LED Series Luminaires



Lumen Output (Efficacy) ①

Model	Equivalency	CCT (Correlated Color Temperature)	CRI (Color Rendering Index)	Lumen Output	Efficacy (lm/W)
Space Lighting					
FDBAESLEDSL*	1 X 8W Fluorescent	5650K	>80	540 ③	107
Escape Route Lighting					
FDBAESLEDE*	2 X 3W Incandescent	5650K	>80	55 ④	107

Electrical Specifications ②

Model	Voltage	Input Power (Watts)	Input Current (Amps)	Power Factor (PF)	Total Harmonic Distortion (THD)
Space Lighting					
FDBAESLEDSL*	230 Vac, 50/60 Hz	2.6	0.02	>0.5	<20%
Escape Route Lighting					
FDBAESLEDE*	230 Vac, 50/60 Hz	1.1	0.01	>0.45	<20%

Temperature Codes

Model Type	Gas IIC — T Rating			Dust — Surface T°		
	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +50 °C (+122 °F)	Ta = +55 °C (+131 °F)
Standard Models						
FDBAESLEDSL*	T6	T6	T6	+80 °C (+176 °F)	+80 °C (+176 °F)	+80 °C (+176 °F)
Emergency Models						
FDBAESLEDE*	T6	T6	T6	+80 °C (+176 °F)	+80 °C (+176 °F)	+80 °C (+176 °F)

“T” Numbers Represent the Maximum Temperature

“T” #	T1	T2	T3	T4	T5	T6
Temp. Range °C (°F)	+301 to +450 (+547 to +842)	+201 to +300 (+394 to +572)	+136 to +200 (+277 to +392)	+101 to +135 (+214 to +275)	+86 to +100 (+187 to +212)	+85 (+185)

① All lumen values are typical (tolerance +/- 10%).

② All values are typical (tolerance +/-10%). Same electrical ratings apply to each luminaire with different LED position, mounting versions and cable entries.

③ Value measured after 1 hour duration - required value by standard is 400 lm.

④ Value measured after 1 hour duration - required value by standard is 45 lm.

ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

LED Indicator

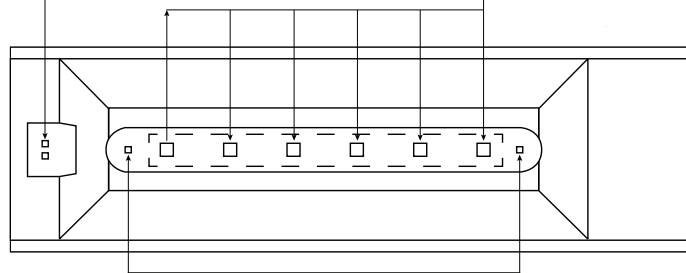
Space Lighting — Replaces Fluorescent Version

1 Green LED + 1 Amber LED indicating the charge battery status

- Green: Flashing → battery is charging
Fixed → battery is fully charged
- Amber: Flashing → battery is not connected or faulty

6 White LED's: Lighting LED's

- OFF when main power is ON
- ON when main power is OFF



2 White LED's:

- ON when main power is OFF
- OFF when main power is ON
- Flashing when battery is not connected or faulty (only with SATI version)

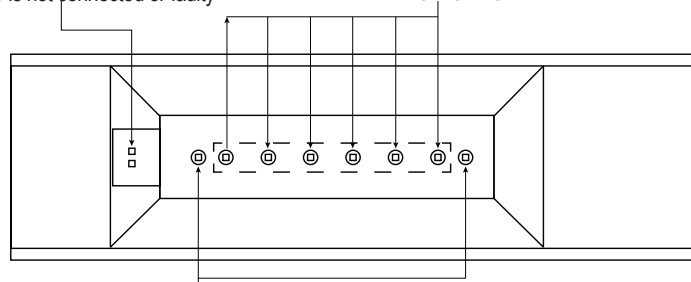
Escape Lighting — Replaces Incandescent Version

1 Green LED + 1 Amber LED indicating the charge battery status

- Green: Flashing → battery is charging
Fixed → battery is fully charged
- Amber: Flashing → battery is not connected or faulty

6 White LED's: Lighting LED's

- Low lighting power when main power is ON
- High lighting power when main power is OFF



2 White LED's:

- Flashing when battery is not connected or faulty (only with SATI version)

Main Status	Non Maintained	
	Space Lighting	Escape Route Lighting
Switched On	☀ ● ● ● ● ● ● ● ☀	● ✕ ✕ ✕ ✕ ✕ ✕ ●
Switched Off	● ☀ ☀ ☀ ☀ ☀ ☀ ●	● ☀ ☀ ☀ ☀ ☀ ☀ ●

● OFF
☀ ON (high lighting power)
✕ ON (low lighting power)

Battery Not Connected or Faulty	Main Power ON	
	Space or Escape Route Lighting	
SATI	⚠ ☀ ● ● ● ● ● ● ● ⚠	
Addressable	⚠ ● ● ● ● ● ● ● ●	

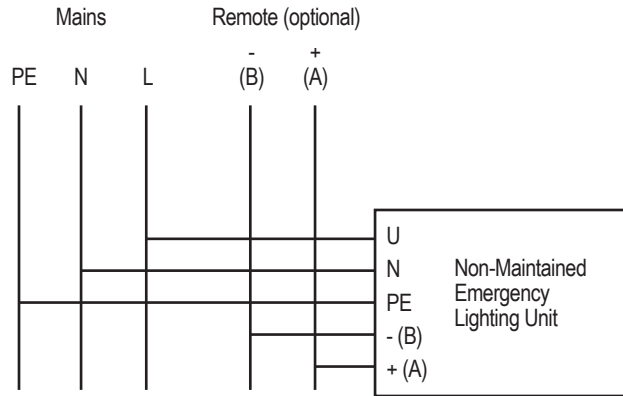
● OFF
⚠ ON — Flashing — White LED
⚠ ON — Flashing — Amber LED

ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units



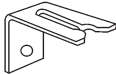
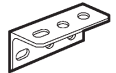

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Electrical Wiring Diagram



Accessories and Replacement Parts

	Description	Weight in kg (lb)	Catalog Number
Reflector			
	White painted galvanized steel	1.02 (2.25)	FDER5G
Protective Guard			
	Zinc Plated Steel	0.42 (0.92)	FDPG5Z
Fixing Brackets for Ease of Surface Installation — Set of Two			
	Zinc plated steel	0.2 (0.44)	FDFBZ
	316 stainless steel	0.27(0.60)	FDFBS
Surface Mounting Brackets — Set of Two			
	Zinc plated steel	0.54 (1.20)	FDSBZ
	316 stainless steel	0.45 (1.00)	FDSBS
Half Clamp Brackets for Pole Mounting — Set of Two			
	Diameter for 1-1/4" to 1-1/2" pole: 42 mm to 49 mm (1.65" to 1.93")		
	• Zinc plated steel	0.55 (1.21)	FDHC49Z
	• 316 stainless steel	0.51 (1.12)	FDHC49S
	Diameter for 2" pole: 60 mm (2.3")		
	• Zinc plated steel	0.55 (1.21)	FDHC60Z
	• 316 stainless steel	0.51 (1.12)	FDHC60S
Fall Prevention Kit			
	1.20 meter (3.93 feet) stainless steel chain	0.15 (0.33)	FDSCS

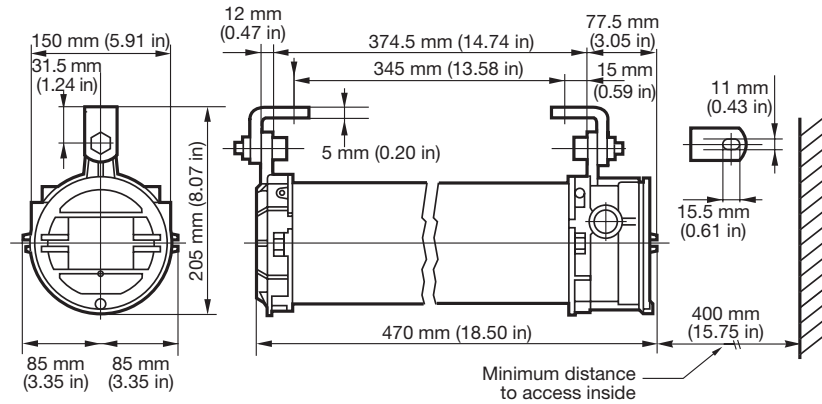
ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Flameproof

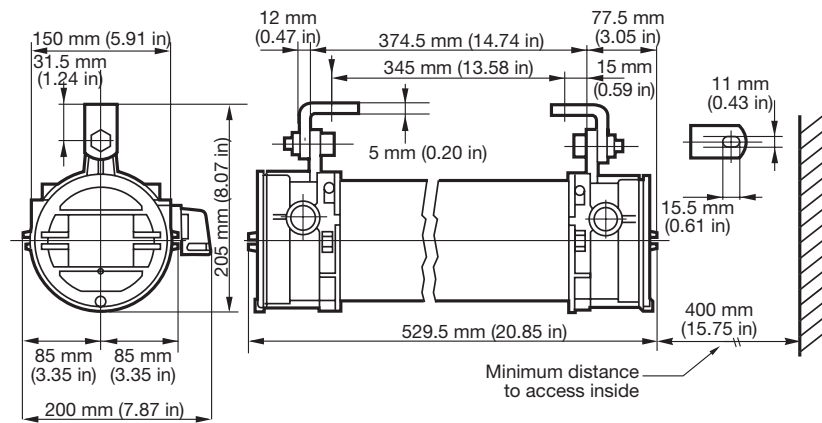
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

Unswitched Versions



Switched Versions



Luminaire Specifications

Model	Weight in kg (lb)	Volume in dm ³ (in ³)
Addressable and Unswitched Versions — 1 hour duration — Non-maintained — Two threaded cable entries with one blanking plug		
FDBAESLED*A	8.1 (17.9)	37.1 (2264.0)
FDBAESLED*W		
Addressable and Switched Versions — 1 hour duration — Non-maintained — One threaded cable entry		
FDBAESLED*A	10.0 (22.0)	40.4 (2465.4)
FDBAESLED*W		
Unswitched Version — 1 hour duration — Non-maintained — Two threaded cable entries with one blanking plug		
FDBAESLED*A	8.1 (17.9)	37.1 (2264.0)
Switched Version — 1 hour duration — Non-maintained — One threaded cable entry		
FDBAESLED*W	10.0 (22.0)	40.4 (2465.4)

Signaling Labels

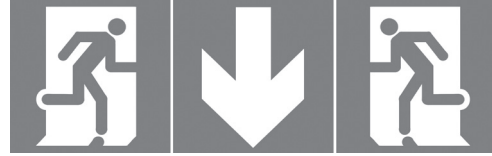
For Use with ATX™ FDBAES LED Series Self-Contained Emergency Lighting Units

Standard Materials

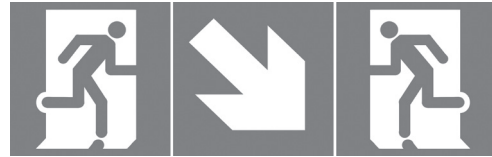
- Plastic coating
- White inscriptions
- Green background

Compliances

- These signaling labels are compliant with:
 - ERP security regulations (Article C0 42: clearing markings)
 - The order of November 4, 1993 (Signage of workplace safety)
 - Standard NF X 08-003: July 2006 (Colors and safety signs)
 - EN 1838 European Standard, visible labels at a distance of 20 m
 - EN ISO 7010 (2013)











BAESLABEL200



BAESLABEL201

Description		Size in Millimeters (Inches)	Catalog Number
	Warning label, straight arrow Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL200
	Warning label, inclined arrow Adhesive and divisible	327 x 109 (12.87 x 4.29)	BAESLABEL201

Plugs and Receptacles | Pictorial Index

Page	Description	NEC	CEC	ATEX	IECEX			
B2	ATX™ PRE Series 16 Amp Plugs and Sockets			•	•			
B7	ATX™ PRE Series 32 Amp Plugs and Sockets			•	•			
B11	ATX™ Série MRE blocs multiprises 16 et 32 Amp			•	•			
B16	ATX™ UPR Series 16 Amp Plugs and Sockets			•	•			
B20	ATX™ UPR Series 32 Amp Plugs and Sockets			•	•			
B24	ATX™ UPR Series 63 Amp Plugs and Sockets			•	•			
B28	ATX™ UPR Series 125 Amp Plugs and Sockets			•	•			
B32	ATX™ UPRD Series 16 Amp Plugs and Sockets			•	•			

Plugs and Receptacles

ATX™ PRE Series 16 Amp Plugs and Sockets

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Plugs and receptacles are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of the oil and gas industry; such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations.

Features

- Plug and socket system is designed with a safe disconnect mechanism to ensure maximum hazardous location protection:
 - The contact separation is in a flameproof chamber
 - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous IEC 309 sockets.
- Operating temperature of -20 °C to +55 °C (-4 °F to +131 °F)

Standard Materials

- Wall Socket for 2P - 2P+E - 3P: high impact resistance polycarbonate
- Wall Socket for 3P+E - 3P+N+E: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

ATEX/IECEX Certifications and Compliances

- Certification Type: PCX (Plug, socket and mobile socket)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6 for $T_a \leq +40$ °C (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T68 °C (T154 °F)
 - Ambient Temperature: -20 °C $\leq T_a \leq +55$ °C (-4 °F $\leq T_a \leq 131$ °F)
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 6068
 - IECEX Certificate: IECEX LCI 04.0014
- Certification Type: PCX/EN (Flush socket)



Wall Mounting Socket

Technical Data

Breaking Capacity

AC3	4 kW – 220 V
	4.3 kW – 240 V
	7.5 kW – 380 V
	8.2 kW – 415 V
ICC	20 kA

- Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6 for $T_a \leq +40$ °C (+104 °F) and T5 for +55 °C (+131 °F)
- Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T68 °C (T154 °F)
- Ambient Temperature: -20 °C $\leq T_a \leq +55$ °C (-4 °F $\leq T_a \leq 131$ °F)
- Index of Protection according EN/IEC 60529: IP66
- ATEX Certificate: LCIE 02 ATEX 0001U
- IECEX Certificate: IECEX LCI 07.0012U

INMETRO Certifications

- Certification Type: PCX (plugs, mobile sockets and flush sockets)
 - Inmetro Certificate: BVC 11.0639/04
- Certification Type: PCX/EN (wall mounting socket)
 - Inmetro Certificate: BVC11.0598-U/04

ATX™ PRE Series 16 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22



Wall Mounting Socket

- Three M20 threaded entries (one on the top and two on the bottom).
- Supplied with one M20 cable gland – Ø 5.5 to Ø 14 mm (Ø 0.19 to Ø 0.55") and two M20 blanking plugs.
- Terminal capacity 2 x 4 mm². Can be through-wired.
- Fitted with three linked earth terminals.



Plug

- One PG16 integrated cable gland – Ø 6.5 to Ø 14.5 mm (Ø 0.25 to Ø 0.57").
- Terminal capacity 2.5 mm².



Mobile Socket

- One PG16 integrated cable gland – Ø 6.5 to Ø 14.5 mm (Ø 0.25 to Ø 0.57").
- Terminal capacity 4 mm².



Flush Socket

- Terminal capacity 4 mm².

Catalog Numbering Guide — ATEX/IECEx Internationally Certified Plugs and Receptacles

PRE
Series:
PRE - PRE Series
Zone 1, 2, 21 and 22
ATEX/IECEx

2
Pin Configuration:
2 - 2P
3 - 2P+E
4 - 3P+E
5 - 3P+N+E
6 - 3P

16
Amps:
16 - 16A

R
Equipment:
P - Plug
R - Receptacle
(Wall Mounting)
M - Mobile Socket
F - Flush Socket

P
Voltage:
P - 20 - 25 Vac 50/60 Hz
W1 - 20 - 50 Vdc
W - 40 - 50 Vac 50/60 Hz
Y - 100 - 130 Vac 50/60 Hz
B - 200 - 250 Vac 50/60 Hz
R - 380 - 415 Vac 50/60 Hz
N - 480 - 500 Vac 50/60 Hz
G - 50 - 500 Vac 300 to 500 Hz

ELV: Extra Low Voltage

Purple (P)	White (W1)	White (W)
20/25 Vac	20/50 Vdc	40/50 Vac




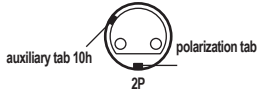



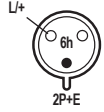
LV: Low Voltage

Yellow (Y)	Blue (B)	Red (R)	Black (N)	Green (G)
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac	50/500 Vac (300 to 500 Hz)

ATX™ PRE Series 16 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Extra Low Voltage: ELV				
20/25 Vac 50/60 Hz — Purple				
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE216RP
Plug		0.2 (0.4)	0.6 (361.6)	PRE216PP
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE216MP
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE216FP
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE316RP
Plug		0.2 (0.4)	0.6 (36.61)	PRE316PP
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE316MP
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE316FP
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE616RP
Plug		0.2 (0.4)	0.6 (36.61)	PRE616PP
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE616MP
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE616FP
20/50 Vdc — White				
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE216RW1
Plug		0.2 (0.4)	0.6 (36.61)	PRE216PW1
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE216MW1
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE216FW1
40/50 Vac 50/60 Hz — White				
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE216RW
Plug		0.2 (0.4)	0.6 (36.61)	PRE216PW
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE216MW
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE216FW
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE616RW
Plug		0.2 (0.4)	0.6 (36.61)	PRE616PW
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE616MW
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE616FW
Low Voltage: LV				
100/130 Vac 50/60 Hz — Yellow				
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE316RY
Plug		0.2 (0.4)	0.6 (36.61)	PRE316PY
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE316MY
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE316FY
200/250 Vac 50/60 Hz — Blue				
Wall Socket		0.6 (1.3)	3.8 (231.89)	PRE316RB
Plug		0.2 (0.4)	0.6 (36.61)	PRE316PB
Mobile Socket		0.4 (0.9)	1.3 (79.33)	PRE316MB
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE316FB

ATX™ PRE Series 16 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Low Voltage: LV				
200/250 Vac 50/60 Hz — Blue				
Wall Socket		1.5 (3.3)	4.7 (286.81)	PRE416RB
Plug		0.6 (1.3)	0.6 (361.6)	PRE416PB
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE416MB
Flush Socket		0.2 (0.4)	1.3 (79.33)	PRE416FB
Wall Socket		1.6 (3.5)	4.7 (286.81)	PRE516RB
Plug		0.3 (0.7)	1.3 (79.33)	PRE516PB
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE516MB
Flush Socket		(1) 120/208 V - 144/250 Vac 50/60 Hz	0.2 (0.4)	1.3 (79.33)
380/415 Vac 50/60 Hz — Red				
Wall Socket		1.5 (3.3)	4.7 (286.81)	PRE416RR
Plug		0.2 (0.4)	0.6 (361.6)	PRE416PR
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE416MR
Flush Socket		0.3 (0.7)	1.3 (79.33)	PRE416FR
Wall Socket		1.6 (3.5)	4.7 (286.81)	PRE516RR
Plug		0.3 (0.7)	1.3 (79.33)	PRE516PR
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE516MR
Flush Socket		(2) 200/346 V - 240/415 Vac 50/60 Hz	0.3 (0.7)	1.3 (79.33)
480/500 Vac 50/60 Hz — Black				
Wall Socket		1.5 (3.3)	4.7 (286.81)	PRE416RN
Plug		0.2 (0.4)	0.6 (361.6)	PRE416PN
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE416MN
Flush Socket		0.3 (0.7)	1.3 (79.33)	PRE416FN
50/500 Vac 300/500 Hz — Green				
Wall Socket		1.6 (3.5)	4.7 (286.81)	PRE516RG
Plug		0.2 (0.4)	0.6 (361.6)	PRE516PG
Mobile Socket		0.6 (1.3)	4.0 (244.09)	PRE516MG
Flush Socket		0.3 (0.7)	1.3 (79.33)	PRE516FG
Accessories				
Description	Catalog Number			
<p>M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")</p>	PREESTM20			
<p>M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")</p>	PREECAM20			

ATX™ PRE Series 16 Amp Plugs and Sockets

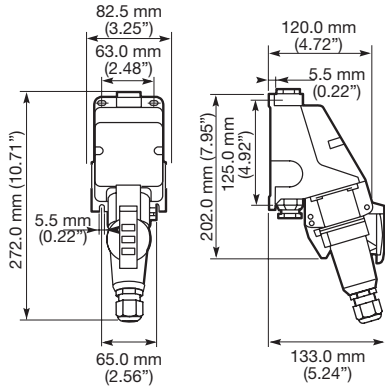
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

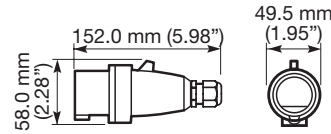
Dimensions in Millimeters (Inches)

16A — 2P — 2P+E — 3P Versions

Wall Mounting Sockets

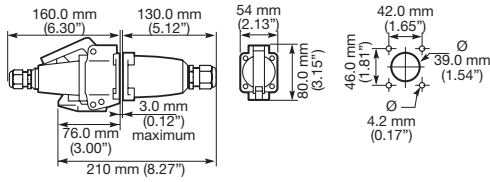


Plugs

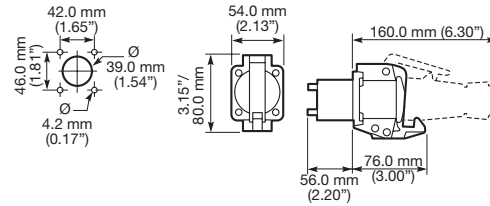


Mobile Sockets

Can be mounted on panel - 3.0 mm (0.12") thickness maximum

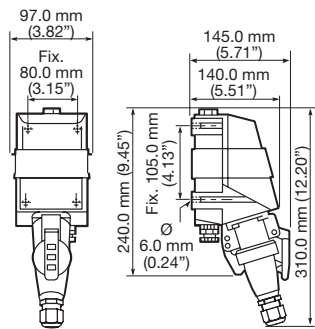


Flush Sockets

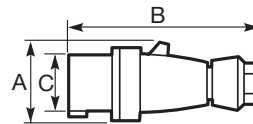


16A — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



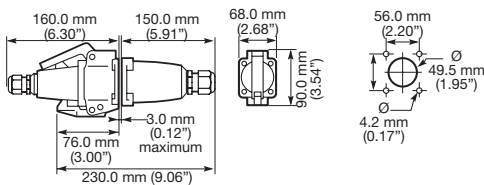
Plugs



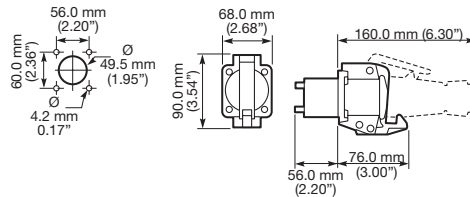
Dimensions in Millimeters (Inches)			
	A	B	C
3 P + E	66.0 (2.60)	154.0 (6.06)	55.5 (2.19)
3 P + N + E	73.0 (2.87)	166.0 (6.54)	62.0 (2.44)

Mobile Sockets

Can be mounted on panel - 3.0 mm (0.12") thickness maximum



Flush Sockets



ATX™ PRE Series 32 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Plugs and sockets are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of the oil and gas industry, such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations.

Features

- Plug and socket system is designed with a safe disconnect mechanism to ensure maximum hazardous location protection:
 - The contact separation is in a flameproof chamber
 - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The sockets are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous sockets.

Standard Materials

- Wall Socket: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: PCX (Plug, socket and mobile socket)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6 for $T_a \leq +40\text{ °C}$ (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T68 °C (T154 °F)
 - Ambient Temperature: $-20\text{ °C} \leq T_a \leq +55\text{ °C}$ (-4 °F $\leq T_a \leq 131\text{ °F}$)
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 6068
 - IECEx Certificate: IECEx LCI 04.0014



Wall Mounting Socket

Technical Data

Breaking Capacity	
AC1	32 A – 500 V
	11 kW – 220 V
AC3	12 kW – 240 V
	19 kW – 380 V
	20.7 kW – 415 V
ICC	20 kA

- Certification Type: PCX/EN (Flush socket)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6 for $T_a \leq +40\text{ °C}$ (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T68 °C (T154 °F)
 - Ambient Temperature: $-20\text{ °C} \leq T_a \leq +55\text{ °C}$ (-4 °F $\leq T_a \leq 131\text{ °F}$)
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 0001U
 - IECEx Certificate: IECEx LCI 07.0012U

INMETRO Certifications

- Certification Type: PCX (plugs, mobile sockets and flush sockets)
 - Inmetro Certificate: BVC 11.0639/04
- Certification Type: PCX/EN (wall mounting socket)
 - Inmetro Certificate: BVC11.0598-U/04

ATX™ PRE Series 32 Amp Plugs and Sockets

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22



Wall Mounting Socket

- Three M25 threaded entries (one on the top and two on the bottom).
- Supplied with one M25 cable gland – Ø 9 to Ø 18 mm (Ø 0.35 to Ø 0.7") and two M25 blanking plugs.
- Terminal capacity 2 x 6 mm².
- Fitted with three linked earth terminals.



Plug

- One PG21 integrated cable gland – Ø 8 to Ø 18.5 mm (Ø 0.31 to Ø 0.73") for 3P+N+E versions.
- Terminal capacity 6 mm².



Mobile Socket

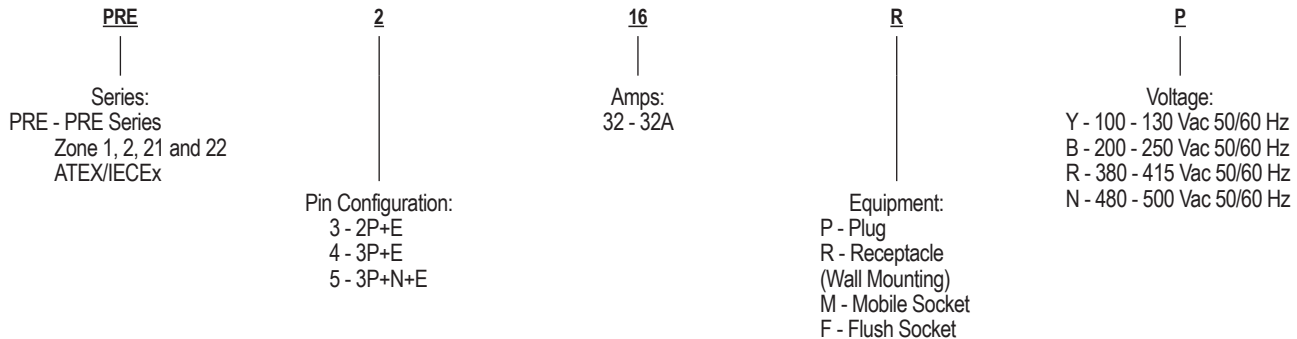
- One PG21 integrated cable gland – Ø 8 to Ø 18.5 mm (Ø 0.31 to Ø 0.73") for 2P+E and 3P+E versions.
- One PG29 integrated cable gland – Ø 18 to Ø 25 mm (Ø 0.70 to Ø 0.98") for 3P+N+E versions.
- Terminal capacity 2 x 6 mm².



Flush Socket

- Terminal capacity 6 mm².

Catalog Numbering Guide — ATEX/IECEX Internationally Certified Plugs and Receptacles



LV: Low Voltage

Yellow (Y)	Blue (B)	Red (R)	Black (N)
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac

ATX™ PRE Series 32 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
100/130 Vac 50/60 Hz — Yellow				
Wall Socket		1.9 (4.19)	7.0 (427.17)	PRE332RY
Plug		0.5 (1.10)	4.0 (244.09)	PRE332PY
Mobile Socket		0.8 (1.76)	3.2 (195.28)	PRE332MY
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE332FY
200/250 Vac 50/60 Hz — Blue				
Wall Socket		1.9 (4.19)	7.0 (427.17)	PRE332RB
Plug		0.5 (1.10)	4.0 (244.09)	PRE332PB
Mobile Socket		0.8 (1.76)	3.2 (195.28)	PRE332MB
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE332FB
Wall Socket		1.9 (4.19)	7.0 (427.17)	PRE432RB
Plug		0.5 (1.10)	4.0 (244.09)	PRE432PB
Mobile Socket		0.8 (1.76)	3.2 (195.28)	PRE432MB
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE432FB
Wall Socket		1.9 (4.19)	7.0 (427.17)	PRE532RB
Plug		0.5 (1.10)	4.0 (244.09)	PRE532PB
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE532FB
		(1) 120/208 V - 144/250 Vac 50/60 Hz		
380/415 Vac 50/60 Hz — Red				
Wall Socket		2.0 (4.41)	7.0 (427.17)	PRE432RR
Plug		0.4 (0.88)	4.0 (244.09)	PRE432PR
Mobile Socket		0.8 (1.76)	3.2 (195.28)	PRE432MR
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE432FR
Wall Socket		2.0 (4.41)	7.0 (427.17)	PRE532RR
Plug		0.5 (1.10)	4.0 (244.09)	PRE532PR
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE532FR
		(2) 200/346 V - 240/415 Vac 50/60 Hz		
480/500 Vac 50/60 Hz — Black				
Wall Socket		2.0 (4.41)	7.0 (427.17)	PRE432RN
Plug		0.4 (0.88)	4.0 (244.09)	PRE432PN
Mobile Socket		1.0 (2.20)	4.0 (244.09)	PRE432MN
Flush Socket		0.6 (1.32)	2.7 (164.76)	PRE432FN

ATX™ PRE Series 32 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

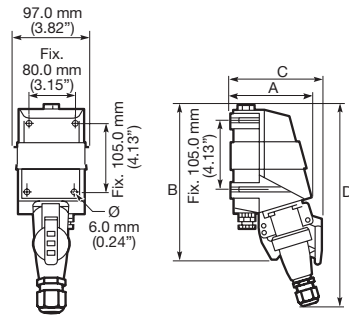
Accessories

	Description	Catalog Number
	M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")	PREESTM20
	M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 300 mm (11.8")	PREECAM20

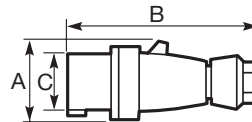
Dimensions in Millimeters (Inches) | 32A — 2P+E — 3P+E — 3P+N+E Versions

16A — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



Plugs

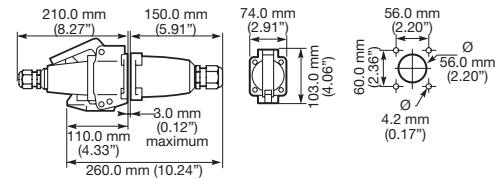


	Dimensions in Millimeters (Inches)			
	A	B	C	
2 P + E	140.0 (5.51)	275.0 (10.83)	155.0 (6.10)	370.0 (14.67)
3 P + E	140.0 (5.51)	275.0 (10.83)	155.0 (6.10)	370.0 (14.67)
3 P + N + E	140.0 (5.51)	275.0 (10.83)	165.0 (6.50)	375.0 (14.76)

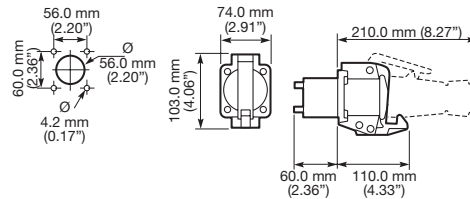
	Dimensions in Millimeters (Inches)		
	A	B	C
2 P + T	80.0 (3.15)	170.0 (6.69)	67.0 (2.64)
3 P + T	80.0 (3.15)	170.0 (6.69)	67.0 (2.64)
3 P + N + T	80.0 (3.15)	195.0 (7.68)	74.0 (2.91)

Mobile Sockets

Can be mounted on panel - 3.0 mm (0.12") thickness maximum



Flush Sockets



ATX™ MRE Series 16 and 32 Amp Multiple Socket Outlets

Stationary and Portable. Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Plugs and sockets are used with portable or stationary electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of the oil and gas industry such as:
 - Refineries
 - Chemical plants
 - Petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations

Features

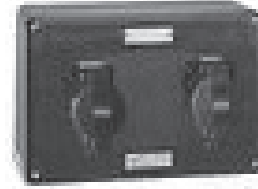
- Plug and socket assembly is equipped with a patented silver plated linear switch which allows a total disconnection of power when plug is removed.
- The high voltage contact separation is in a flameproof chamber.
- The automatic electrical disconnection of each phase is contained in a second flameproof chamber.
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The sockets are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous sockets.

Standard Materials

- Housing: high impact resistance fiberglass reinforced polyester or 316L stainless steel
- Flush sockets: polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: PCX/EN (Flush Socket)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6 for $T_a \leq +40$ °C (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T68 °C (T154 °F)
 - Service Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - Impact Resistance (shock): IK09
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 0001U
 - IECEx Certificate: IECEX LCI 07.0012U
- Certification Type: CSPe (Housing)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II
 - Temperature Class: T6



Two Socket Outlet Version

- Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C (T167 °F)
 - Ambient Temperature: -55 °C to +60 °C (-67 °F to +140 °F) (empty housing)
 - Impact Resistance (shock): IK10
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 09 ATEX 3032X
 - IECEx Certificate: IECEX LCI 09.0016X
- Certification Type: CAe (Housing)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II
 - Temperature Class: T6 to T3
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C (T176 °F to T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F) (empty housing)
 - Impact Resistance (shock): IK10
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 6248X
 - IECEx Certificate: IECEX LCI 04.0016
 - Certification Type: JBe (Housing)
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II
 - Temperature Class: T6 to T2
 - Dust Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T290 °C (T176 °F to T554 °F)
 - Ambient Temperature: -50 °C to +70 °C (-58 °F to +158 °F) (empty housing)
 - Impact Resistance (shock): IK10
 - Index of Protection according EN/IEC 60529: IP66
 - ATEX Certificate: LCIE 02 ATEX 6118X
 - IECEx Certificate: IECEX LCI 11.0008X

ATX™ MRE Series 16 and 32 Amp Multiple Socket Outlets

Stationary and Portable. Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Plugs and Receptacles

Catalog Numbering Guide — ATEX/IECEx Internationally Certified Plugs and Receptacles

MRE Series: MRE - MRE Series Zone 1, 2, 21 and 22 ATEX/IECEx Certified	P Socket Outlets Quantity: 0 1 2 3 4	1 Pin Configuration: 2 - 2P 3 - 2P+E 6 - 3P 4 - 3P+E 5 - 3P+N+E F - Drilling for Socket 2P-3P-2P+E 16A G - Drilling for Socket 3P+E - 3P+N+E 16A J - Drilling for Socket 3P+E - 3P+N+E 32A	2 Pin Configuration: 2 - 2P 3 - 2P+E 6 - 3P 4 - 3P+E 5 - 3P+N+E F - Drilling for Socket 2P-3P-2P+E 16A G - Drilling for Socket 3P+E - 3P+N+E 16A J - Drilling for Socket 3P+E - 3P+N+E 32A	16 Amps: 16 - 16 A 32 - 32 A	P Voltage: P - 20-25 Vac 50/60 Hz Y - 100-130 Vac 50/60 Hz B - 200-250 Vac 50/60 Hz R - 380-415 Vac 50/60 Hz	T0 Transformer Power: T0 - None T1 - 100 VA T2 - 160 VA T3 - 250 VA T4 - 400 VA	K Primary/Secondary Voltage: K - 230-400 Vac/24 Vac L - 240-415 Vac/24 Vac M - 230-400 Vac/110 Vac	# Options: <i>Must be listed alphabetically</i> H - Portable Unit with Handle: Only available with SS 316L enclosure # - Customized Multiple Socket 6 digit number will be assigned at time of order placement
Enclosure Material: P - Polyester S - 316L Stainless Steel								

Description	Type	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	Pack
Pre-drilled Multiple Sockets in Polyester for 2 Flush Sockets 16 A — Ex de IIC T5 -20 °C to +55 °C (-4 °F to +131 °F) Supplied with: 1 x Terminal block 2P+E 6 mm ² (0.009 in ²); 1 x M20 plastic cable gland for unarmored cable – sealing diameter 5.5 to 14 mm (0.19 to 0.55 in). Layout 1 Dimensions in mm (in)					
	CSPe3 PCX/EN	1.3 (2.87)	7 (427)	MREP2F	1

ATX™ MRE Series 16 and 32 Amp Multiple Socket Outlets

Stationary and Portable. Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Type	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
Pre-drilled Multiple Sockets in Polyester for 4 Flush Sockets 16A — Ex de IIC T5 -20 °C to +55 °C (-4 °F to +131 °F)					
<i>Supplied with: 1 x Distribution block 4 poles 12 x 4 mm (0.47 x 0.16 in) with cable clamps – 2 x 10 mm² (0.003 x 0.016 in²) max.; 1 x M20 plastic cable gland for unarmored cable – sealing diameter 5.5 to 14 mm (0.19 to 0.55 in); 1 x M20 plastic blanking plug.</i>					
Layout 2 Dimensions in mm (in)					
	Pre-drilled enclosure for 4 flush sockets (not supplied) PRE Series 2P or 2P+E – 16A	CAe2 PCX/EN	4 (8.82)	15 (915)	MREP4F
	Pre-drilled enclosure for 4 flush sockets (not supplied) PRE Series 3P+E or 3P+N+E – 16A	CAe2 PCX/EN	4 (8.82)	15 (915)	MREP4G
	Blanking plug diameter 30 mm	—	0.1 (0.22)	0.18 (11)	UBP
Combined Units in Polyester with 4 Flush Sockets 16A — Ex de IIC T5 -20 °C to +55 °C (-4 °F to +131 °F)					
<i>Supplied with: 1 x Distribution block 4 poles 12 x 4 mm (0.47 x 0.16 in) with cable clamps – 2 x 10 mm² (0.003 x 0.016 in²) max.; 1 x M20 plastic cable gland for unarmored cable – sealing diameter 5.5 to 14 mm (0.19 to 0.55 in); 1 x M20 plastic blanking plug.</i>					
Layout 3 Dimensions in mm (in)					
	4 flush sockets 2P+E 16 A 20/25 Vac	CAe2 PCX/EN	5 (11.02)	25 (1526)	MREP4316P
	4 flush sockets 2P+E 16 A 200/250 Vac	CAe2 PCX/EN	5 (11.02)	25 (1526)	MREP4316B

ATX™ MRE Series 16 and 32 Amp Multiple Socket Outlets

Stationary and Portable. Increased Safety

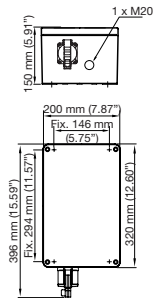
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description	Type	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
-------------	------	----------------	---	----------------

Combined Units in Polyester with 1 Flush Socket 16 A — Ex de IIC T3 -20 °C to +40 °C (-4 °F to +104 °F)

Supplied with: 1 x Transformer 230-400 V/24 V 250 VA; 2 x Fuse carriers 14 x 51 for primary protection; 2 x Fuse carriers 14 x 51 for secondary protection; 1 x Flush socket 2P+E 16 A 24 Vac (PRE316FP); 1 x M20 plastic cable gland for unarmored cable – sealing diameter 5.5 to 14 mm (0.19 to 0.55 in).

Layout 4 | Dimensions in mm (in)



1 flush socket 2P+E 16 A 20/25 Vac and transformer 230-400 V/24 V 250 VA

C Ae2

PCX/EN

12 (26.46)

25 (1526)

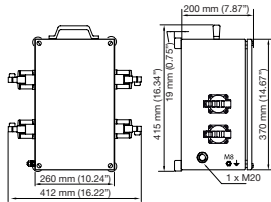
MREP1316PT3K

Portable Combined Units in 316L Stainless Steel with 4 Flush Sockets 16 A — Ex de IIC T3 -20 °C to +40 °C (-4 °F to +104 °F)

Supplied with: 1 x Transformer; 2 x Fuse carriers 14 x 51 for primary protection; 2 x Fuse carriers 14 x 51 for secondary protection; 4 x Flush sockets 2P+E 16 A 24 V (PRE316FP); 1 x M20 cable gland for unarmored cable – sealing diameter 5.5 to 14 mm (0.19 to 0.55 in).

Layout 5 | Dimensions in mm (in)

250 VA Portable Unit:



Ex de IIC T3 -20 °C to +40 °C (-4 °F to +104 °F)
4 flush sockets 2P+E 16 A 20/25 Vac and transformer 230-400 V/24 V 250 VA

JBe47

PCX/EN

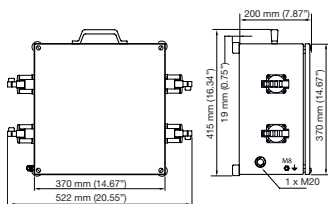
19 (41.89)

30 (1831)

MRES4316PT3KH

Layout 6 | Dimensions in mm (in)

400 VA Portable Unit:



Ex de IIC T2 -20 °C to +40 °C (-4 °F to +104 °F)
4 flush sockets 2P+E 16 A 20/25 Vac and transformer 230-400 V/24 V 400 VA

JBe55

PCX/EN

23 (50.71)

42 (2563)

MRES4316PT4KH

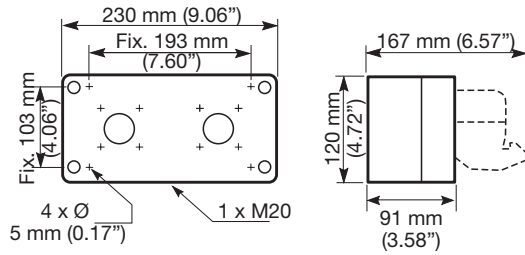
ATX™ MRE Series 16 and 32 Amp Multiple Socket Outlets

Stationary and Portable. Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

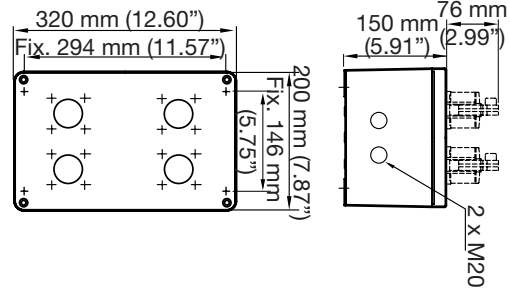
Dimensions in Millimeters (Inches)

Layout 1

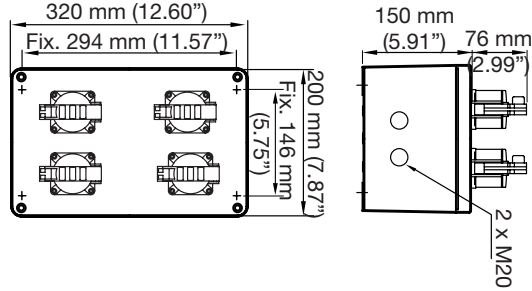


Layout 2

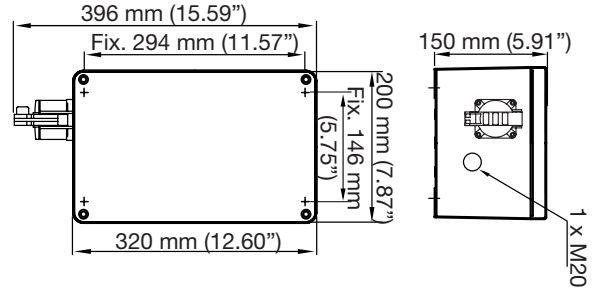
(Flush Sockets Not Supplied)



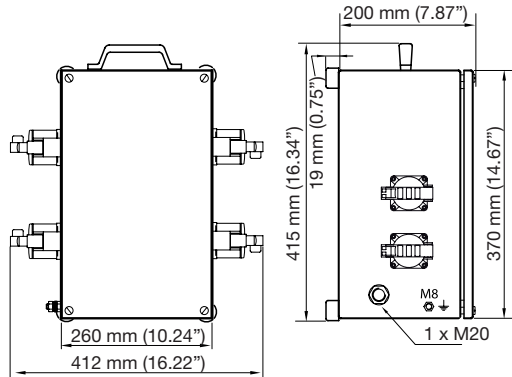
Layout 3



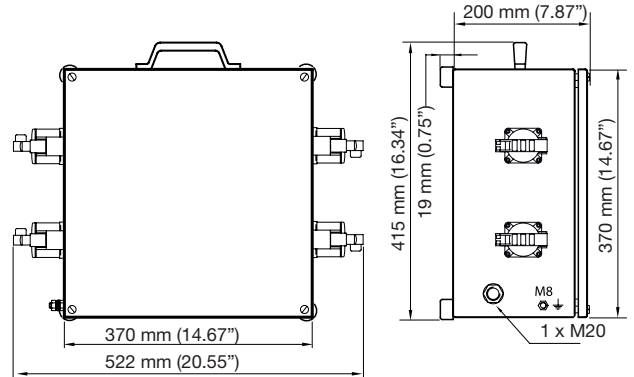
Layout 4



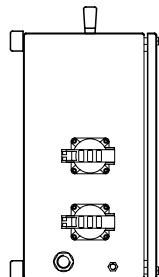
Layout 5



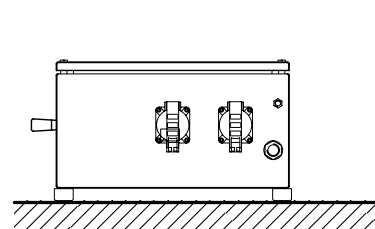
Layout 6



Position for Transportation



Position for Use



ATX™ UPR Series 16 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Plugs and receptacles are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of the oil and gas industry; such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations



Features

- Plug and socket system is designed with a mechanical interlock to ensure disengagement cannot occur while energized.
- Large ON/OFF actuator on the receptacle gives clear, visible indication of the receptacle status for maximum hazardous location protection.
- Low Voltage receptacle can be locked in 0 (Off) and 1 (On) positions.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept UPR plugs of the proper voltage.
- Receptacle explosionproof switch.
- UPR plugs can be used in non-hazardous IEC 60309-2 sockets.
- Operating temperature of -20 °C to +55 °C (-4 °F to +131 °F).

Standard Materials

- Wall Socket: polyamide
- Plug: polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: UPR
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
 - Type of Protection: Ex db eb IIB
 - Temperature Class: T6 for Ta ≤ +40 °C (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU Ⓜ II 2 D
 - Type of Protection: Ex tb IIIB
 - Surface Temperature: T79 °C [Ta +40 °C (+104 °F)]; T94 °C [(Ta +55 °C (+131 °F))]
 - Ambient Temperature: -20 °C ≤ Ta ≤ +55 °C (-4 °F ≤ Ta ≤ +131 °F)
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09
 - ATEX Certificate: LCIE 15 ATEX 3054X
 - IECEx Certificate: IECEx LCIE 15.0044X

INMETRO Certifications

- Inmetro Certificate: BVC 17.5711-X

Technical Data

Breaking Capacity

AC1	16 Amp	690 Vac
	8 Amp	500 Vac
AC3	4 Amp	690 Vac
	16 Amp	690 Vac
AC15	16 Amp	415 Vac
	10 Amp	24 Vdc
DC1	6 Amp	50 vdc

Short Circuit Withstand (ICC): 10 kA

ATX™ UPR Series 16 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22



Wall Mounting Socket (LV)

- Two M25 threaded entries on the bottom. Available on top upon request.
- Supplied with one M25 cable gland – Ø 9 to Ø 18 mm (0.31 to 0.73 in) and one M25 blanking plug.
- Terminal capacity 2 x 2.5 to 4 mm². Can be through-wired up to 4 mm².
- Fitted with two linked earth terminals.



Plug (LV)

- Integrated cable clamp – Ø 9.2 to Ø 17 mm (0.36 to 0.67 in).
- Terminal capacity 2.5 to 4 mm².

LV: Low Voltage


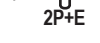

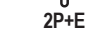

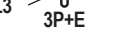

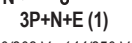

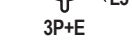

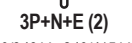

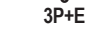


Yellow (Y)	Blue (B)	Red (R)	Black (N)
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac
			600/690 Vac

ATX™ UPR Series 16 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

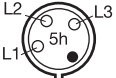
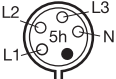
Plugs and Receptacles

Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Color	Catalog Number
Low Voltage: LV					
100/130 Vac 50/60 Hz — Yellow					
Wall Socket		1.29 (2.84)	11.30 (689.57)	Yellow	UPR316RY4
Plug		0.31 (0.68)	2.40 (146.46)	Yellow	UPR316PY4
200/250 Vac 50/60 Hz — Blue					
Wall Socket		1.29 (2.84)	11.30 (689.57)	Blue	UPR316RB6
Plug		0.31 (0.68)	2.40 (146.46)	Blue	UPR316PB6
Wall Socket		1.39 (3.06)	11.30 (689.57)	Blue	UPR416RB9
Plug		0.38 (0.84)	2.40 (146.46)	Blue	UPR416PB9
Wall Socket		1.43 (3.15)	11.30 (689.57)	Blue	UPR516RB9
Plug		0.41 (0.90)	2.40 (146.46)	Blue	UPR516PB9
<i>(1) 120/208 V - 144/250 Vac 50/60 Hz</i>					
380/415 Vac 50/60 Hz — Red					
Wall Socket		1.39 (3.06)	11.30 (689.57)	Red	UPR416RR6
Plug		0.38 (0.84)	2.40 (146.46)	Red	UPR416PR6
Wall Socket		1.43 (3.15)	11.30 (689.57)	Red	UPR516RR6
Plug		0.41 (0.90)	2.40 (146.46)	Red	UPR516PR6
<i>(2) 200/346 V - 240/415 Vac 50/60 Hz</i>					
480/500 Vac 50/60 Hz — Black					
Wall Socket		1.39 (3.06)	11.30 (689.57)	Black	UPR416RN7
Plug		0.38 (0.84)	2.40 (146.46)	Black	UPR416PN7
Wall Socket		1.43 (3.15)	11.30 (689.57)	Black	UPR516RN7
Plug		0.41 (0.90)	2.40 (146.46)	Black	UPR516PN7
<i>(3) 277/480-288/500 Vac 50/60 Hz</i>					

ATX™ UPR Series 16 Amp Plugs and Switched Sockets

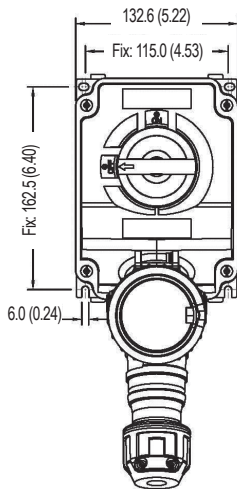
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

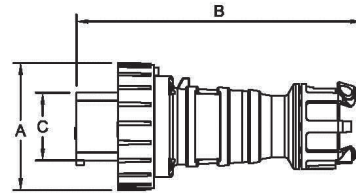
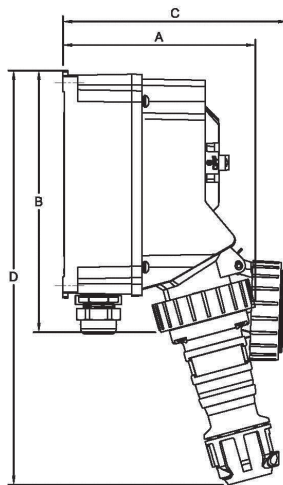
Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Color	Catalog Number
Low Voltage: LV					
600/690 Vac 50/60 Hz — Black					
Wall Socket		1.39 (3.06)	11.30 (689.57)	Black	UPR416RN5
Plug	3P+E	0.38 (0.84)	2.40 (146.46)	Black	UPR416PN5
Wall Socket		1.43 (3.15)	11.30 (689.57)	Black	UPR516RN5
Plug	3P+N+E	0.41 (0.90)	2.40 (146.46)	Black	UPR516PN5

Dimensions in Millimeters (Inches) | 16A — 2P+E — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



Plugs



	Dimensions in Millimeters (Inches)			
	A	B	C	D
2 P + E	157.0 (6.18)	211.0 (8.31)	183.5 (7.22)	335.0 (13.19)
3 P + E	161.0 (6.34)	215.0 (8.47)	193.0 (7.60)	335.0 (13.19)
3 P + N + E	163.0 (6.42)	215.0 (8.47)	193.0 (7.60)	335.0 (13.19)

	Dimensions in Millimeters (Inches)		
	A	B	C
2 P + E	81.0 (3.19)	183.0 (7.20)	44.0 (1.73)
3 P + E	89.0 (3.50)	183.0 (7.20)	49.0 (1.93)
3 P + N + E	93.5 (3.68)	183.0 (7.20)	56.0 (2.20)

ATX™ UPR Series 32 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Plugs and sockets are used with portable or stationery electrical equipment such as:
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generators
 - Air conditioning equipment
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of the oil and gas industry, such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Loading docks
 - Onshore and offshore drilling platforms

Features

- Plug and socket system is designed with a mechanical interlock to ensure disengagement cannot occur while energized.
- Large ON/OFF actuator on the receptacle gives clear, visible indication of the receptacle status for maximum hazardous location protection.
- Low Voltage receptacle can be locked in 0 (Off) and 1 (On) positions.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept UPR plugs of the proper voltage.
- Receptacle explosionproof switch.
- UPR plugs can be used in non-hazardous IEC 60309-2 sockets.
- Operating temperature of -20 °C to +55 °C (-4 °F to +131 °F).

Standard Materials

- Wall Socket: polyamide
- Plug: polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: UPR
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
 - Type of Protection: Ex db eb IIB
 - Temperature Class: T6 for $T_a \leq +40$ °C (+104 °F) and T5 for +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU Ⓜ II 2 D
 - Type of Protection: Ex tb IIIB
 - Surface Temperature: T79 °C [$T_a + 40$ °C (+104 °F)]; T94 °C [($T_a + 55$ °C (+131 °F))]
 - Ambient Temperature: -20 °C $\leq T_a \leq +55$ °C (-4 °F $\leq T_a \leq +131$ °F)
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09
 - ATEX Certificate: LCIE 15 ATEX 3054X
 - IECEx Certificate: IECEx LCIE 15.0044X

INMETRO Certifications

- Inmetro Certificate: BVC 17.5711-X



Technical Data

Breaking Capacity

AC3	32 Amp	690 Vac
AC22	32 Amp	690 Vac

Short Circuit Withstand (ICC): 10 kA

ATX™ UPR Series 32 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22



Wall Mounting Socket

- Two M32 threaded entries on the bottom or top upon request.
- Supplied with one M32 cable gland – Ø 12.5 to Ø 25 mm (0.39 to 0.98 in) and one M32 blanking plugs.
- Terminal capacity 2 x 6 to 10 mm². Can be through-wired up to 6 mm².
- Fitted with two linked earth terminals.



Plug (LV)

- One integrated cable clamp – Ø 14.1 to Ø 29.1 mm (0.55 to 0.98 in) for 3P+N+E versions.
- Terminal capacity 6 to 10 mm².

LV: Low Voltage

Yellow (Y)	Blue (B)	Red (R)	Black (N)
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac
			600/690 Vac

ATX™ UPR Series 32 Amp Plugs and Switched Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Plugs and Receptacles

Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Color	Catalog Number
100/130 Vac 50/60 Hz — Yellow					
Wall Socket		1.71 (3.77)	11.30 (689.57)	Yellow	UPR332RY4
Plug		0.46 (1.01)	2.40 (146.46)	Yellow	UPR332PY4
200/250 Vac 50/60 Hz — Blue					
Wall Socket		1.71 (3.77)	11.30 (689.57)	Blue	UPR332RB6
Plug		0.46 (1.01)	2.40 (146.46)	Blue	UPR332PB6
Wall Socket		1.85 (4.08)	11.30 (689.57)	Blue	UPR432RB9
Plug		0.49 (1.08)	2.40 (146.46)	Blue	UPR432PB9
Wall Socket		1.91 (4.21)	11.30 (689.57)	Blue	UPR532RB9
Plug		0.54 (1.19)	2.40 (146.46)	Blue	UPR532PB9
	<small>(1) 120/208 V - 144/250 Vac 50/60 Hz</small>				
380/415 Vac 50/60 Hz — Red					
Wall Socket		1.85 (4.08)	11.30 (689.57)	Red	UPR432RR6
Plug		0.49 (1.08)	2.40 (146.46)	Red	UPR432PR6
Wall Socket		1.91 (4.21)	11.30 (689.57)	Red	UPR532RR6
Plug		0.54 (1.19)	2.40 (146.46)	Red	UPR532PR6
	<small>(2) 200/346 V - 240/415 Vac 50/60 Hz</small>				
480/500 Vac 50/60 Hz — Black					
Wall Socket		1.85 (4.08)	11.30 (689.57)	Black	UPR432RN7
Plug		0.49 (1.08)	2.40 (146.46)	Black	UPR432PN7
Wall Socket		1.91 (4.21)	11.30 (689.57)	Black	UPR532RN7
Plug		0.54 (1.19)	2.40 (146.46)	Black	UPR532PN7
600/690 Vac 50/60 Hz -Black					
Wall Socket		1.85 (4.08)	11.30 (689.57)	Black	UPR432RN5
Plug		0.49 (1.08)	2.40 (146.46)	Black	UPR432PN5

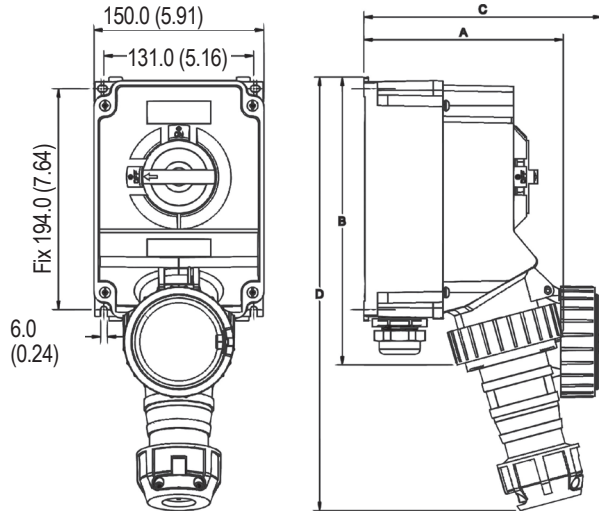
ATX™ UPR Series 32 Amp Plugs and Switched Sockets

Increased Safety

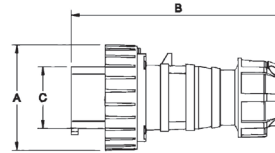
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches) | 32A — 2P+E — 3P+E — 3P+N+E Versions

Wall Mounting Sockets



Plugs



	Dimensions in Millimeters (Inches)			
	A	B	C	D
2 P + E	175.0 (6.89)	250.0 (9.84)	210.0 (8.27)	380.0 (14.96)
3 P + E	175.0 (6.89)	250.0 (9.84)	210.0 (8.27)	380.0 (14.96)
3 P + N + E	177.0 (6.97)	250.0 (9.84)	210.0 (8.27)	380.0 (14.96)

	Dimensions in Millimeters (Inches)		
	A	B	C
2 P + E	98.0 (3.86)	200.0 (7.87)	57.0 (2.24)
3 P + E	98.0 (3.86)	200.0 (7.87)	57.0 (2.24)
3 P + N + E	102.0 (4.02)	200.0 (7.87)	63.0 (2.48)

Plugs and Receptacles

ATX™ UPR Series 63 Amp Plugs and Sockets

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Plugs and sockets are used with stationary or portable electrically operated devices such as:
 - Welding devices
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generator sets
 - Air conditioners
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of oil and gas industry, such as
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations

Features

- Positive polarization: only ATX plugs of same style, number of poles and ampere rating may be used with these sockets.
- Interlocked 3-pole or 4-pole Ex de disconnecting on-load switch, with auxiliary contact – max 2.5 mm² capacity.
- Plug is mechanically locked in socket when switch is ON.
- Switch operating handle can be padlocked in OFF position (max 4 padlocks).
- Plug cannot be inserted or removed unless switch is in OFF position.

Standard Materials

- Socket: high impact resistance fiberglass reinforced polyester.
- Plug: polyamide

ATEX/IECEX Certifications and Compliances

- Certification Type: UPR63
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Temperature class: T4
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: +80 °C (+176 °F)
- Ambient Temperature: -30 °C to +55 °C (-22 °F to +131 °F)
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- ATEX Certificate: INERIS 20 ATEX 0033X
- IECEX Certificate: IECEX INE 20.0032X

UKEX Certification

- UKEX Certificate: CML 21 UKEX 1152X

INMETRO Certification

- INMETRO Certificate: BVC22.4119-X



63 Amp Plug and Wall Mounting Socket

Technical Data

Main Contacts		
Rated Insulation Voltage	690 Vac	
Rated Operating Voltage	690 Vac	
Rated Operating Current	63 Amp	
Rated Surge Voltage	6 KV	
Switching Capacity		
AC 21 A/AC 22 A	63 Amp	230 Volt to 500 Volt
	15 kW	230 Volt
AC 23 A	22 kW	400 Volt
	30 kW	500 Volt
	22 kW	690 Volt
AC 3	11 kW	230 Volt
	18.5 kW	400 Volt
	22 kW	500 Volt
	15 kW	690 Volt
DC 21	-	
DC 22	-	
DC 23	-	
Auxiliary Contacts		
Rated Insulation Voltage	400 Volt	
Rated Operating Voltage	400 Volt	
Rated Operating Current	10 Amp	
Switching Capacity: AC 15	6 Amp	230 Volt
	4 Amp	400 Volt
Others		
Termination (flexible/solid)	25 mm ²	

ATX™ UPR Series 63 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22



Wall Mounting Socket



Plug

- Standard versions:
 - Supplied with one M50 cable gland for unarmored cable – Ø 22 to Ø 38 mm (Ø 0.87 to Ø 1.49") and one M25 blanking plug.
 - Terminal capacity 1 x 25 mm².
- Through-wired versions:
 - Supplied with two M50 cable glands for unarmored cable – Ø 22 to Ø 38 mm (Ø 0.87 to Ø 1.49") and one M25 blanking plug.
 - Terminal capacity 2 x 25 mm².
- One integrated cable entry for unarmored flexible cable
 - Ø 17.5 to Ø 29 mm (0.69 to 1.14") for 3P + E versions;
 - Ø 17.5 to Ø 32 mm (0.69 to 1.26") for 3P + N + E versions.
- Terminals capacity 16 mm².

Catalog Numbering Guide — ATEX/IECEx Internationally Certified Plugs and Receptacles

UPR	2	16	R	B	A	3	I
Series: UPR - UPR Series Zone 1, 2, 21 and 22 ATEX/IECEx	Pin Configuration: 4 - 3P+E 5 - 3P+N+E	Amps: 63 - 63A	Equipment: P - Plug R - Receptacle (Wall Mounting)	Voltage: B - 200 - 250 Vac 50/60 Hz R - 380 - 415 Vac 50/60 Hz R1 - 440 - 460 Vac 50/60 Hz N - 480 - 500 Vac 50/60 Hz N1 - 600 - 690 Vac 50/60 Hz	Cable Type: A - Armored U - Unarmored	Cable Entry Size: ① 3 - M32 4 - M40 5 - M50 6 - M63	Options: T - Through-wired

LV: Low Voltage

Blue (B)	Red (R)	Red (R1)	Black (N)	Black (N1)
200/250 Vac	380/415 Vac	440/460 Vac	480/500 Vac	600/690 Vac

① With one M25 plugged entry.

ATX™ UPR Series 63 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Plugs and Receptacles

Standard Versions

Equipment	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
200/250 Vac 50/60 Hz — Blue				
Wall Socket		9.9 (21.8)	25.3 (99.6)	UPR463RBU5
Plug		1.1 (2.4)	7.4 (29.1)	UPR463PB
380/415 Vac 50/60 Hz — Red				
Wall Socket		9.9 (21.8)	25.3 (99.6)	UPR463RRU5
Plug		1.1 (2.4)	7.4 (29.1)	UPR463PR
Wall Socket		10.3 (22.7)	25.3 (99.6)	UPR563RRU5
Plug		1.2 (2.6)	7.4 (29.1)	UPR563PR
<i>(1) 200/346 V – 240/415 Vac 50/60 Hz</i>				
440/460 Vac 60 Hz — Red				
Wall Socket		9.9 (21.8)	25.3 (99.6)	UPR463RR1U5
Plug		1.1 (2.4)	7.4 (29.1)	UPR463PR1
Wall Socket		10.3 (22.7)	25.3 (99.6)	UPR563RR1U5
Plug		1.2 (2.6)	7.4 (29.1)	UPR563PR1
<i>(2) 250/440 V – 265/460 Vac 60 Hz</i>				
480/500 Vac 50/60 Hz — Black				
Wall Socket		9.9 (21.8)	25.3 (99.6)	UPR463RNU5
Plug		1.1 (2.4)	7.4 (29.1)	UPR463PN
Wall Socket		10.3 (22.7)	25.3 (99.6)	UPR563RNU5
Plug		1.2 (2.6)	7.4 (29.1)	UPR563PN
<i>(3) 277/480 V – 288/500 Vac 50/60 Hz</i>				
600/690 Vac 50/60 Hz — Black				
Wall Socket		9.9 (21.8)	25.3 (99.6)	UPR463RN1U5
Plug		1.1 (2.4)	7.4 (29.1)	UPR463PN1
Wall Socket		10.3 (22.7)	25.3 (99.6)	UPR563RN1U5
Plug		1.2 (2.6)	7.4 (29.1)	UPR563PN1
<i>(4) 347/600 V – 400/690 Vac 50/60 Hz</i>				

ATX™ UPR Series 63 Amp Plugs and Sockets

Increased Safety

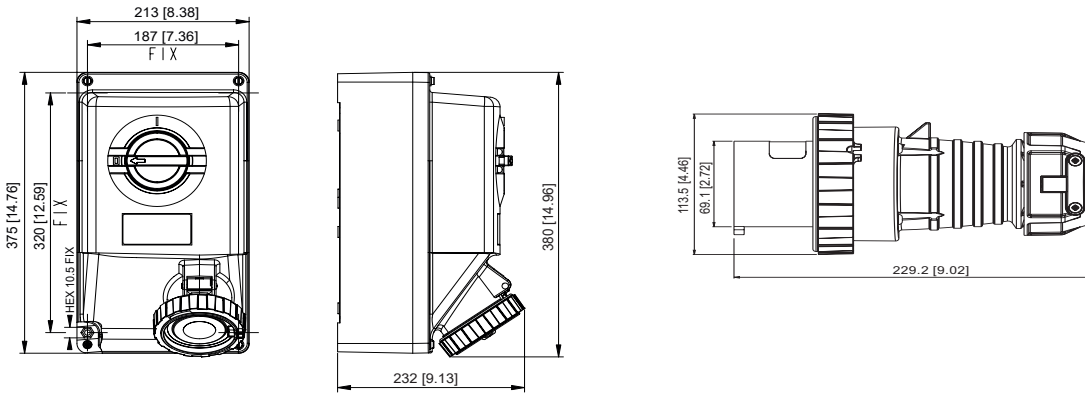
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Through-wired Versions

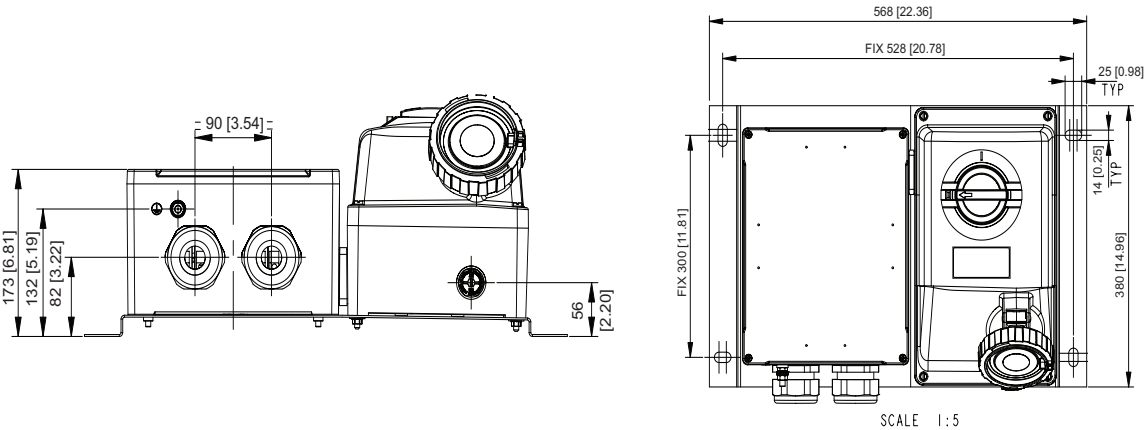
Equipment	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
380/415 Vac 50/60 Hz — Red				
Wall Socket		16.0 (35.3)	110.0 (433.1)	UPR463RRU5T
Wall Socket		16.0 (35.3)	110.0 (433.1)	UPR563RRU5T
(1) 200/346 V – 240/415 Vac 50/60 Hz				

Dimensions in Millimeters (Inches)

Standard Version



Through-Wired Version



ATX™ UPR Series 125 Amp Plugs and Sockets

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Plugs and sockets are used with stationary or portable electrically operated devices such as:
 - Welding devices
 - Lighting systems
 - Conveyors
 - Heaters
 - Motor generator sets
 - Air conditioning
 - Compressors
 - Pumps
- For use in corrosive atmospheres and installations in Zones 1 and 2 – 21 and 22 of oil and gas industry, such as:
 - Refineries
 - Chemical and petrochemical plants
 - Pipelines
 - Onshore and offshore drilling platforms
 - LNG Trains
 - Gas Compressor Stations

Features

- Positive polarization: only ATX plugs of same style, number of poles and ampere rating may be used with these sockets.
- Interlocked 3-pole or 4-pole Ex de disconnecting on-load switch, with auxiliary contact – max 2.5 mm² capacity.
- Plug is mechanically locked in socket when switch is ON.
- Switch operating handle can be padlocked in OFF position (max 4 padlocks).
- Plug cannot be inserted or removed unless switch is in OFF position.

Standard Materials

- Socket: 316L stainless steel
- Plug: polyamide
- Ring on the plug: aluminium painted in grey

ATEX/IECEX Certifications and Compliances

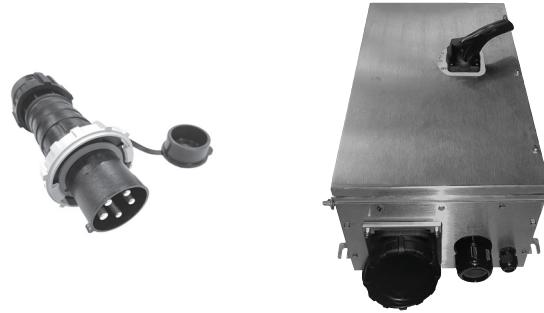
- Certification Type: UPR125
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Temperature class: T6 for Ta ≤ +40 °C (+104 °F) and T5 for ≤ +55 °C (+131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T55 °C/T70 °C (T131 °F/T158 °F)
 - Ambient Temperature: 30 °C to +40 °C/+55 °C (-22 °F to +104 °F/+131 °C) (depending on temperature class T)
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
 - ATEX Certificate: INERIS 20 ATEX 0055X
 - IECEX Certificate: IECEX INE 20.0061X

UKEX Certification

- UKEX Certificate: CML 21 UKEX 1150X

INMETRO Certification

- INMETRO Certificate: BVC22.4131-X



125 Amp Plug and Wall Mounting Socket

Technical Data

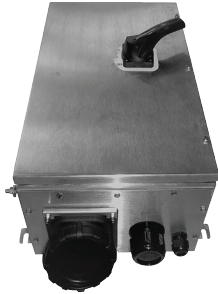
Main Contacts		
Rated Insulation Voltage	690 Vac	
Rated Operating Voltage	690 Vac	
Rated Operating Current	125 Amp	
Rated Surge Voltage	8 KV	
Switching Capacity		
AC 21 A/AC 22 A	125 Amp	400 Volt to 690 Volt
	80 kW	400 Volt
AC 23 A	110 kW	500 Volt
	55 kW	690 Volt
AC 3	90 kW	400 Volt
	70 kW	500 Volt
DC 21	125 Amp	220 Volt ①
	125 Amp	440 Volt ①
DC 22	125 Amp	220 Volt ①
	100 Amp	440 Volt ①
DC 23	125 Amp	220 Volt ①
	63 Amp	440 Volt ①
Auxiliary Contacts		
Rated Insulation Voltage	230 Volt	
Rated Operating Voltage	230 Volt	
Rated Operating Current	10 Amp	
Switching Capacity: AC 15	6 Amp	230 Volt
Others		
Termination (flexible/solid)	120 mm ² (250 MCM)	

① 2 contacts connected in series per pole.

ATX™ UPR Series 125 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22



Wall Mounting Socket

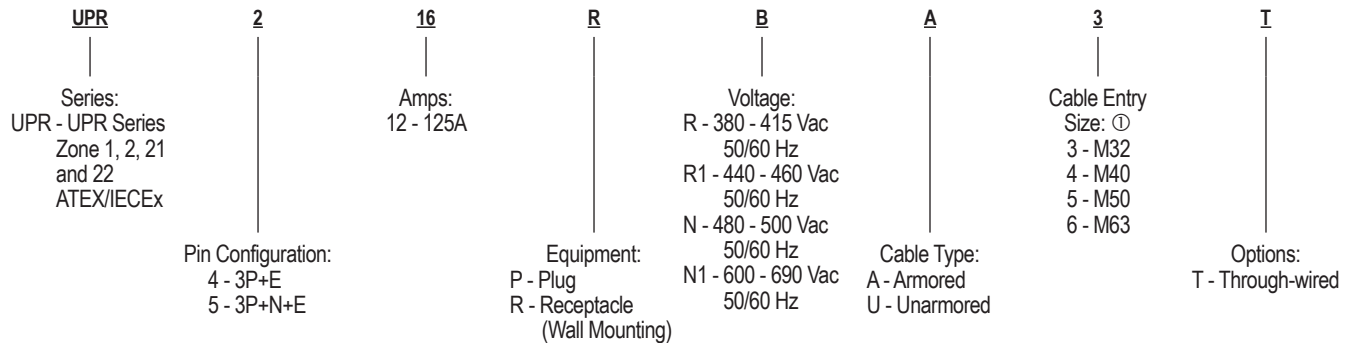
- One M63 cable gland for unarmored cable – Ø 28 to Ø 48 mm (1.10 to 1.89 in) and one M25 blanking plug.
- Terminal capacity 120 mm².



Plug

- One integrated cable entry for unarmored flexible cable – Ø 30 to Ø 48 mm (1.10 to 1.89 in).
- Terminals capacity 50 mm².

Catalog Numbering Guide — ATEX/IECEx Internationally Certified Plugs and Receptacles



LV: Low Voltage

Red (R)	Red (R1)	Black (N)	Black (N1)
380/415 Vac	440/460 Vac	480/500 Vac	600/690 Vac

① With one M25 plugged entry.

ATX™ UPR Series 125 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Plugs and Receptacles

Equipment	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
380/415 Vac 50/60 Hz — Red				
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR412RRU6
Plug		3 (6.6)	24.2 (1476.78)	UPR412PR
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR512RRU6
Plug		3 (6.6)	24.2 (1476.78)	UPR512PR
<i>(1) 200/346 V – 240/415 Vac 50/60 Hz</i>				
440/460 Vac 60 Hz — Red				
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR412RR1U6
Plug		3 (6.6)	24.2 (1476.78)	UPR412PR1
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR512RR1U6
Plug		3 (6.6)	24.2 (1476.78)	UPR512PR1
<i>(2) 250/440 V – 265/460 Vac 60 Hz</i>				
480/500 Vac 50/60 Hz — Black				
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR412RNU6
Plug		3 (6.6)	24.2 (1476.78)	UPR412PN
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR512RNU6
Plug		3 (6.6)	24.2 (1476.78)	UPR512PN
<i>(3) 277/480 V – 288/500 Vac 50/60 Hz</i>				
600/690 Vac 50/60 Hz — Black				
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR412RN1U6
Plug		3 (6.6)	24.2 (1476.78)	UPR412PN1
Wall Socket		40 (88.2)	27.0 (1647.64)	UPR512RN1U6
Plug		3 (6.6)	24.2 (1476.78)	UPR512PN1
<i>(4) 347/480 V – 400/690 Vac 50/60 Hz</i>				

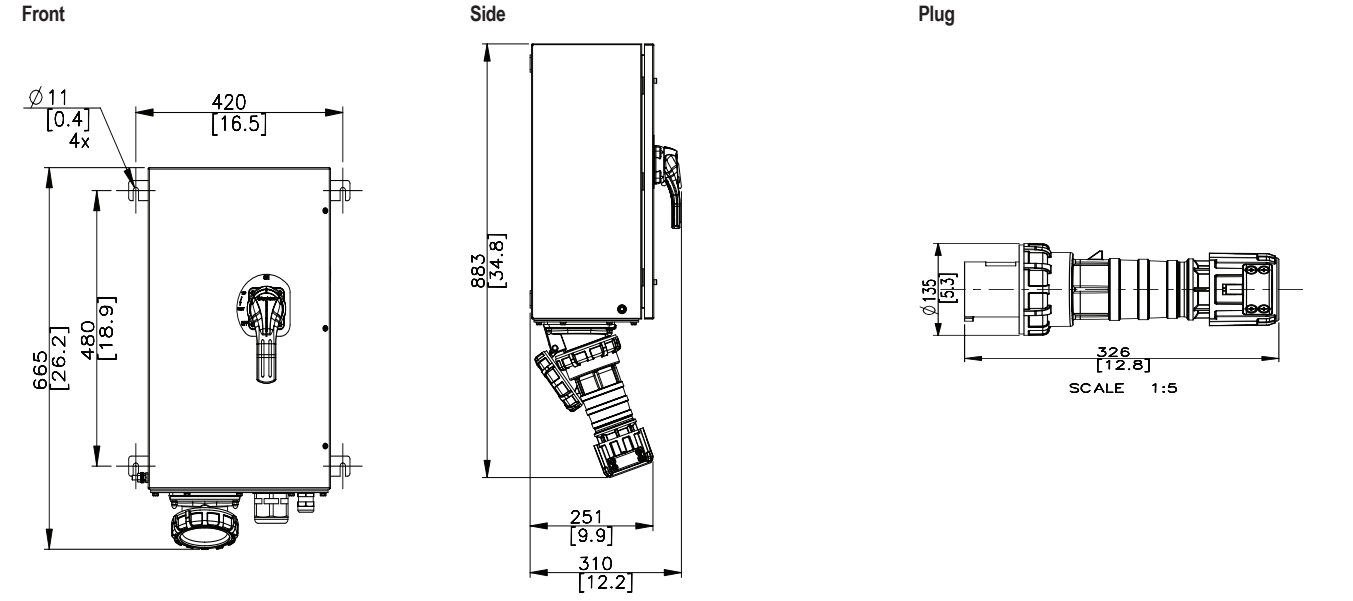
ATX™ UPR Series 125 Amp Plugs and Sockets

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Through-wired Versions				
Equipment	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
380/415 Vac 50/60 Hz — Red				
Wall Socket		16.0 (35.3)	110.0 (433.1)	UPR412RRU5T
Wall Socket		16.0 (35.3)	110.0 (433.1)	UPR512RRU5T
(1) 200/346 V – 240/415 Vac 50/60 Hz				

Dimensions in Millimeters (Inches)



Plugs and Receptacles

UPRD Series 16 Amp Plugs and Sockets

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Hazardous areas where plugs and sockets are used with portable or stationary electrical equipment such as lighting and heating systems, conveyors, motor starters, air-conditioning appliances, compressors and pumps.
- Ideal for hazardous areas where weatherproof and robust equipment is required.
- Ideal for hazardous areas in the oil and gas industry; such as refineries, pipelines and offshore sea-rigs.



16 Amp Plug and Receptacle

Features

- Flameproof seal with cylindrical spigot joint.
- Automatic disconnection of the poles by patented dual-safety device, which ensures the following once the plug is removed from the socket outlet:
 - Automatic and simultaneous disconnection of each phase in a flameproof chamber
 - Disconnection, once power is off, of the pins in the second flameproof chamber
- Cover can be padlocked – 1 padlock diameter 5 mm (0.20"), length 45 mm (1.77").
- Wall sockets incorporate a safety device that only accepts plugging of ATX plugs which are certified for use in hazardous areas.
- Plugs compliant to IEC 60309-1 and IEC 60309-2.
- Wall sockets:
 - 2 x M20 threaded cable entries (1 at the top, 1 at bottom).
 - Supplied with one M20 plug.
 - Connection on 2 x 4 mm² terminals.
 - Earth terminals: internal and external, with 4 mm diameter screws.
- Plugs:
 - 1 M25 cable gland supplied
- Cable gland tightening capacities:
 - 7 to 11 mm (0.28 to 0.43") diameter for the 2P+E plug
 - 11 to 15.5 mm (0.43 to 0.61") diameter for the 3P+E plug
 - 13 to 20 mm (0.51 to 0.79") diameter for the 3P+N+E plug
- Connection on 2.5 mm² maximum terminals.

Standard Materials

- Socket outlet body and socket: painted marine grade aluminum alloy

ATEX/IECEx Certifications and Compliances

- Certification Type: (16 A Plugs and Wall Sockets) UPRD
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIC Gb
 - Temperature class: T6 for Ta ≤ +50 °C (122 °F) and T5 for Ta ≤ +55 °C (131 °F)
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T85 °C/T100 °C (T185 °F/T212 °F)
 - Ambient Temperature: -55 °C to +50 °C/+55 °C (-67 °F to 122 °F/131 °F) (depending on temperature class T)
 - ATEX Certificate: ExVeritas 18 ATEX 0369X
 - IECEx Certificate: IECEx EXV 18.0020X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact resistance (shock): IK10

UKEX Certifications

- UKEX Certificate: ExVeritas 21 UKEX 0791X


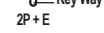





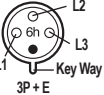

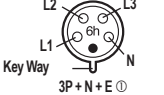
INMETRO Certifications

- INMETRO Certificate: BVC22.4132-X

UPRD Series 16 Amp Plugs and Sockets

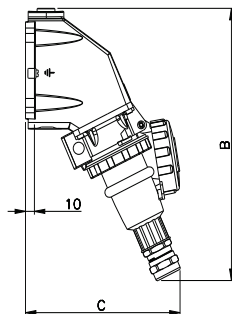
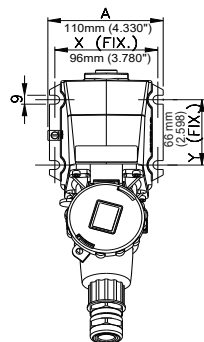
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

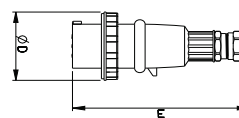
Description	Pin Configuration	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Extra Low Voltage				
20/25 Vac 50/60 Hz — Purple				
Wall Socket		1.9 (4.2)	7.9 (482.0)	UPRD316RP
Plug		0.5 (1.1)	1.6 (97.6)	UPRD316PP
Low Voltage				
100/130 Vac 50/60 Hz — Yellow				
Wall Socket		1.9 (4.2)	7.9 (482.0)	UPRD316RY
Plug		0.5 (1.1)	1.6 (97.6)	UPRD316PY
200/250 Vac 50/60 Hz — Blue				
Wall Socket		1.9 (4.2)	7.9 (482.0)	UPRD316RB
Plug		0.5 (1.1)	1.6 (97.6)	UPRD316PB
380/415 Vac 50/60 Hz — Red				
Wall Socket		2.0 (4.4)	7.9 (482.0)	UPRD416RR
Plug		0.6 (1.3)	1.6 (97.6)	UPRD416PR
Wall Socket		2.0 (4.4)	7.9 (482.0)	UPRD516RR
Plug		0.8 (1.8)	2.3 (140.4)	UPRD516PR

Dimensions in Millimeters (Inches)

Wall Mounting Sockets



Plugs









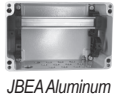






	Dimensions in Millimeters (Inches)			
	B	C	Ø D	E
2 P + E	276.0 (10.86)	174.0 (6.85)	70.0 (2.75)	166.0 (6.53)
3 P + E	276.0 (10.86)	174.0 (6.85)	78.0 (3.07)	170.0 (6.69)
3 P + N + E	294.0 (11.57)	184.0 (7.24)	88.0 (3.46)	184.0 (7.24)

① 200/346 V – 240/415 Vac 50/60 Hz.

Notes

Enclosures and Junction Boxes | Pictorial Index

Page	Description	NEC	CEC	ATEX	IECEX			
C2	ATX™ JBDR Series Pre-Drilled Round Junction Boxes			●				
C5	ATX™ JBDA – ECDA Series Customized Enclosures			●	●			
C10	ATX™ ECDX Series Customized Welded Steel Enclosures			●	●			
C13	APD Series Customized Enclosures			●	●			
C17	APDAC/APDSC Series Enclosures and Junction Boxes			●	●			
C20	ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes	●	●	●	●			
C30	ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications	●	●	●	●			
C37	ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications			●	●			
C61	AGE Series Glass Reinforced Polyester Enclosures			●	●			
C67	ATX™ JBEA and ECEA Series Aluminum Enclosures			●	●			
C72	ATX™ JBEA Series Pre-Drilled Aluminum Junction Box			●	●			
C79	ATX™ JBEL Series Polycarbonate Junction Box			●	●			
C82	ATX™ JBES and ECES Series 316L Stainless Steel Enclosures			●	●			
C94	ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes			●	●			
C98	ASSE Series Stainless Steel Enclosures			●	●			

Enclosures and Junction Boxes

ATX™ JBDR Series Pre-Drilled Round Junction Boxes

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos
 - Other facilities

Features

- IK10 (20 Joules) high impact resistant box.
- Pillar type terminal block (4 x terminals) for easy connection.
- Terminal capacity: 4 x 4 mm² (0.006 x 0.006 in²) or 2 x 6 mm² (0.003 x 0.009 in²).
- Internal Earth: ground plate with 4 x M4 screws for connection to 4 mm diameter lugs.
- External Earth: M5 screw.
- Back plate supplied.
- Operating temperature -40 °C to +55 °C (-40 °F to +131 °F).

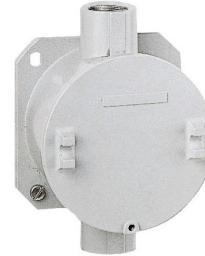
Standard Materials

- Housing: gray painted marine grade aluminum
- Hardware: stainless steel

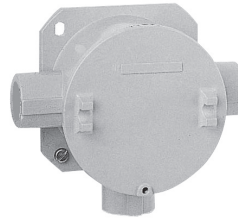
ATEX Certifications and Compliances

- Certification Type: BR1d
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6 to T4
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
- Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
- ATEX Certificate: LCIE 02 ATEX 6056
- Index of Protection according EN/IEC 60529: IP66

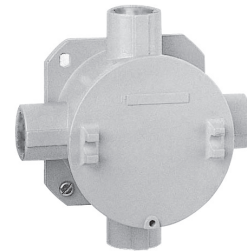
2 Entry Version



3 Entry Version



4 Entry Version

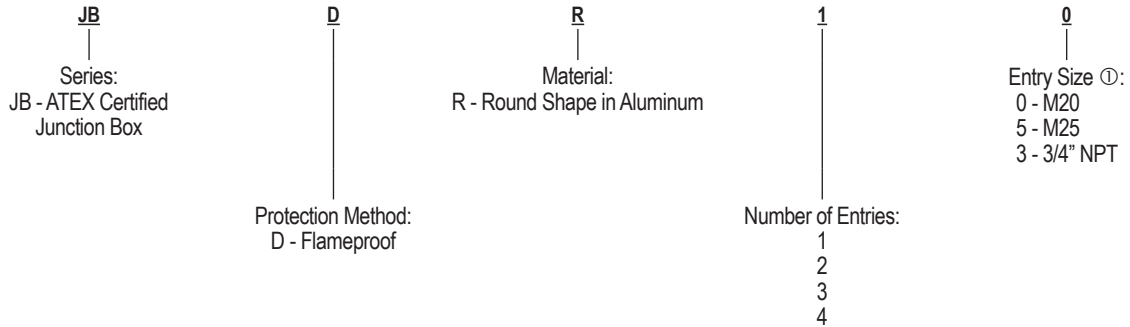





ATX™ JBDR Series Pre-Drilled Round Junction Boxes

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — JBDR Series Pre-Drilled Round Junction Boxes



Equipment	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Threaded Entries for M25 Cable Gland – Not Supplied			
 2 x M25 entries (feed through)	0.8 (1.76)	2 (122.05)	JBDR25
3 x M25 entries (in a "T")	0.8 (1.76)	2 (122.05)	JBDR35
4 x M25 entries (in a cross)	0.9 (1.98)	2 (122.05)	JBDR45
Threaded Entries for M20 Cable Gland – Not Supplied			
 2 x M20 entries (feed through)	1.54 (0.70)	2 (122.05)	JBDR20
3 x M20 entries (in a "T")	1.54 (0.70)	2 (122.05)	JBDR30
4 x M20 entries (in a cross)	0.8 (1.76)	2 (122.05)	JBDR40
Threaded Entries for NPT 3/4" Cable Gland – Not Supplied			
 2 x 3/4" NPT entries (feed through)	1.54 (0.7)	2 (122.05)	JBDR23
3 x 3/4" NPT entries (in a "T")	1.54 (0.70)	2 (122.05)	JBDR33
4 x 3/4" NPT entries (in a cross)	0.8 (1.76)	2 (122.05)	JBDR43

Accessories

Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Pillar Terminal Block			
4 terminals 4 x 4 mm ² (0.006 x 0.006 in ²) or 2 x 6 mm ² (0.003 x 0.009 in ²) cables	0.1 (0.22)	0.4 (24.41)	TBP44

① For other entry size, use adaptor.

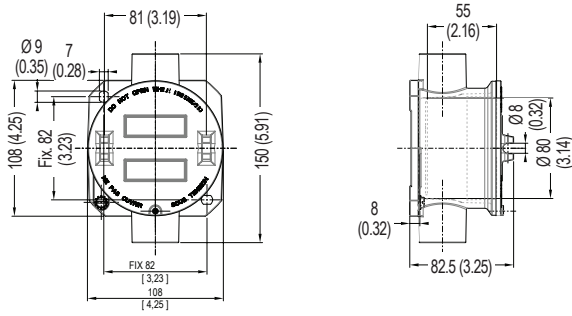
ATX™ JBDR Series Pre-Drilled Round Junction Boxes

Flameproof

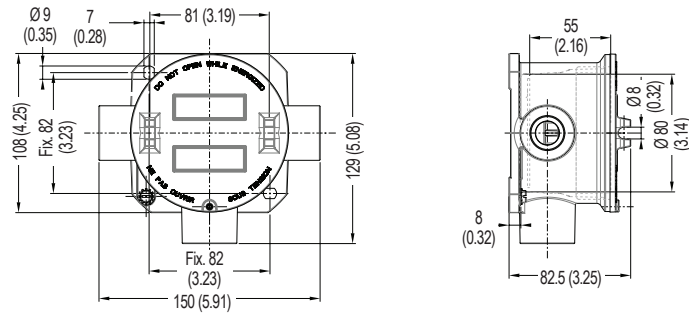
ATEX: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

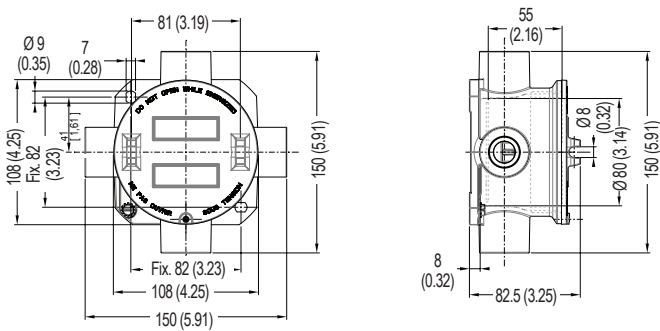
2 Entry Version



3 Entry Version



4 Entry Version



ATX™ JBDA – ECDA Series Customized Enclosures

Flameproof

ATEX/IECEx ①: Zones 1 and 2 – 21 and 22

Applications

- Designed for use in Zones 1, 2, 21 and 22 in the oil and gas industry such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Junction box applications:
 - JBD series enclosures may be customized to house terminal blocks.
- Enclosure and control applications:
 - ECD series enclosures may be customized to house a large range of components such as:
 - Control units
 - Breakers
 - Starters
 - Relays
 - Meters
 - Etc.

Features

- Enclosures are available in a wide range of sizes.
- Precision machined flameproof joint between body and cover.
- Wall thickness suitable for all sizes of cable entries.
- External fixing lugs.
- Internal mounting pan.
- Square and round windows available in a wide range of sizes.
- Machining, drilling, and assembly must be completed in our workshops.
- Power dissipated calculation including cables must be completed according to each size of certified enclosure.

Standard Materials

- Enclosures: gray painted marine grade aluminum alloy
- Hardware: stainless steel

Options

- Indirect cable entries available through Ex e connection enclosure.
- There are many options for customized enclosures not limited to: terminal strips, selector switches, operators, transformers, etc. Please contact your local representative for more information.

ATEX/IECEx Certifications and Compliances

- Certification Type: CF10B to CF70B, CF10C to CF50C
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection CF10B to CF70B: Ex d IIB
 - Type of Protection CF10C to CF50C: Ex d IIC
 - Temperature Class: T6 to T4
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T130 °C (T176 °F to T 266 °F)
 - Ambient Temperature
 - CF30B, CF70B: -20 °C to +55 °C (-4 °F to +131 °F);
 - CF10B, CF20B, CF40B, CF50B, CF10C, CF30C, CF50C: -40 °C to +55 °C (-40 °F to +131 °F);
 - CF60B: -50 °C to +55 °C (-58 °F to +131 °F)
 - ATEX Certificate: LCIE 02 ATEX 6057X
 - IECEx Certificate: IECEx LCI 08.0023X
 - Index of Protection according EN/IEC 60529: IP66



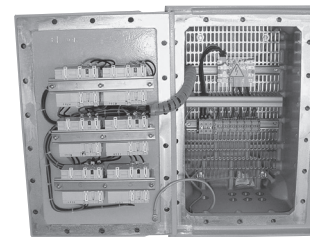
JBDA



ECDA



ECDA



Customized Enclosures

- Certification Type: CF1A/B/D/E
 - Gas: Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6 to T2
 - Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C to T290 °C (T203 °F to 554 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 03 ATEX 6044X
 - Index of Protection according EN/IEC 60529: IP66

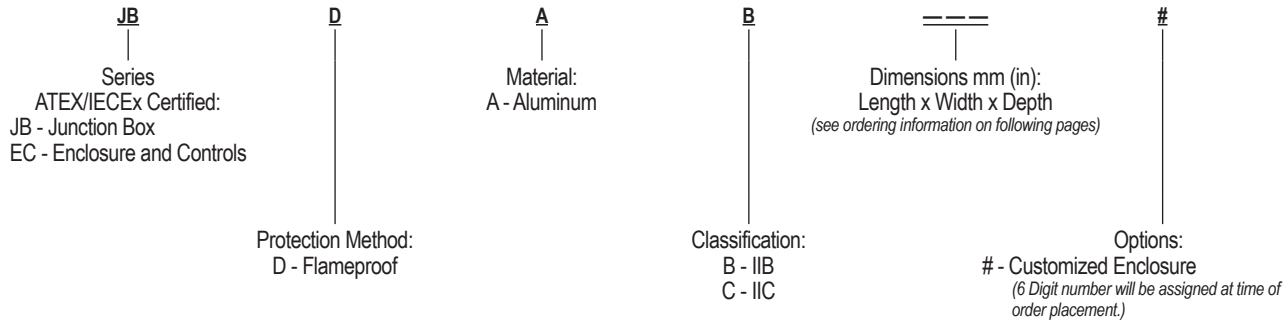
① Enclosure Type CF1A, CF1B, CF1D, and CF1E are not IECEx certified.

ATX™ JBDA – ECDA Series Customized Enclosures




Flameproof

ATEX/IECEx Ⓢ: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — JBDA – ECDA Series Customized Enclosures



Enclosures and Junction Boxes

Type	Dimensions mm (in) L x W x D	Hinged Door	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number		
					JBD Series	ECD Series	
Ex d IIB Enclosure in Cast Aluminum with Flanged Flameproof Joint							
	CF10B	260 x 270 x 208 (10.24 x 10.63 x 8.19)	—	9 (19.84)	17 (1037.40)	JBDAB262720#	ECDAB262720#
	CF20B	370 x 270 x 208 (15.57 x 10.63 x 8.19)	—	13 (28.66)	24 (1464.57)	JBDAB372720#	ECDAB372720#
	CF30B	340 x 320 x 230 (13.39 x 12.60 x 9.06)	Yes	29 (63.93)	68 (4149.61)	JBDAB343223#	ECDAB343223#
	CF40B	455 x 320 x 347 (17.91 x 12.60 x 13.66)	Yes	50 (110.23)	126 (7688.99)	JBDAB453234#	ECDAB453234#
	CF50B	455 x 440 x 347 (17.97 x 17.32 x 13.66)	Yes	65 (143.30)	240 (14645.70)	JBDAB454434#	ECDAB454434#
	CF60B	680 x 440 x 413 (26.77 x 17.32 x 16.26)	Yes	106 (233.69)	378 (23066.98)	JBDAB684441#	ECDAB684441#
	CF70B	680 x 640 x 413 (26.77 x 25.20 x 16.26)	Yes	130 (286.60)	382 (23311.07)	JBDAB686441#	ECDAB686441#
Ex d IIC Enclosure in Cast Aluminum with Spigot Flameproof Joint							
	CF1E	140 x 162 x 100 (5.51 x 6.38 x 3.94)	—	1.5 (3.31)	2.2 (134.25)	JBDAC141610#	ECDAC141610#
	CF1B	210 x 230 x 125 (8.27 x 9.06 x 4.92)	—	4.8 (10.58)	5.5 (335.63)	JBDAC212312#	ECDAC212312#
	CF1A	295 x 265 x 195 (11.61 x 10.43 x 7.68)	—	10 (22.05)	9.6 (585.83)	JBDAC292619#	ECDAC292619#
	CF1D	360 x 335 x 200 (14.17 x 13.19 x 7.87)	—	10 (22.05)	14.6 (890.95)	JBDAC363320#	ECDAC363320#
Ex d IIC Enclosure in Cast Aluminum with Screwed Flameproof Joint							
	CF10C	230 x 215 x 238 (9.05 x 8.46 x 9.37)	—	12 (26.46)	16 (976.38)	JBDAC232124#	ECDAC232124#
	CF30C	320 x 340 x 234 (12.60 x 13.39 x 9.21)	—	28 (61.73)	68 (4149.61)	JBDAC323423#	ECDAC323423#
	CF50C	440 x 455 x 345 (17.32 x 17.91 x 13.58)	—	64 (141.10)	245 (14950.82)	JBDAC444534#	ECDAC444534#

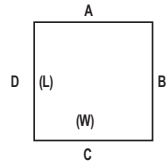
① Enclosure Type CF1A, CF1B, CF1D, and CF1E are not IECEx certified.

ATX™ JBDA – ECDA Series Customized Enclosures

Flameproof

ATEX/IECEx ①: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)



Type	Dimensions mm (in) L x W x D	Maximum Quantity of Threaded Entries Per Side				Max. Size ②	Rail Length Capacity for Terminal Block mm (in)	
		A M20	B M20	C M20	D M20		(L)	(W)
Ex d IIB Enclosure in Cast Aluminum								
CF10B	260 x 270 x 208 (10.24 x 10.63 x 8.19)	8	6	8	6	M75	155 (6.10)	148 (5.83)
CF20B	370 x 270 x 208 (15.57 x 10.63 x 8.19)	6	12	6	12	M75	260 (10.24)	148 (5.83)
CF30B	340 x 320 x 230 (13.39 x 12.60 x 9.06)	8	8	8	8	M75	260 (10.24)	218 (8.58)
CF40B	455 x 320 x 347 (17.91 x 12.60 x 13.66)	16	28	16	28	M75	330 (12.99)	200 (7.87)
CF50B	455 x 440 x 347 (17.97 x 17.32 x 13.66)	26	26	26	26	M75	295 (11.61)	330 (12.99)
CF60B	680 x 440 x 413 (26.77 x 17.32 x 16.26)	26	51	26	51	M100	540 (21.26)	300 (11.81)
CF70B	680 x 640 x 413 (26.77 x 25.20 x 16.26)	38	42	38	42	M100	530 (20.87)	530 (20.87)
Ex d IIC Enclosure in Cast Aluminum								
CF1E	140 x 162 x 100 (5.51 x 6.38 x 3.94)	1	2	1	2	M32	–	99 (3.90)
CF1B	210 x 230 x 125 (8.27 x 9.06 x 4.92)	1	3	2	3	M32	–	155 (6.10)
CF1A	295 x 265 x 195 (11.61 x 10.43 x 7.68)	6	6	5	6	M63	190 (7.48)	190 (7.48)
CF1D	360 x 335 x 200 (14.17 x 13.19 x 7.87)	16	17	15	17	M63	180 (7.09)	250 (9.84)
Ex d IIC Enclosure in Cast Aluminum								
CF10C	230 x 215 x 238 (9.05 x 8.46 x 9.37)	5	5	5	5	M75	120 (4.72)	105 (4.13)
CF30C	320 x 340 x 234 (12.60 x 13.39 x 9.21)	8	8	8	8	M75	260 (10.24)	215 (8.46)
CF50C	440 x 455 x 345 (17.32 x 17.91 x 13.58)	26	26	26	26	M75	295 (11.61)	330 (12.99)

① Enclosure Type CF1A, CF1B, CF1D, and CF1E are not IECEx certified.

② Consult your local sales representative for quantity.

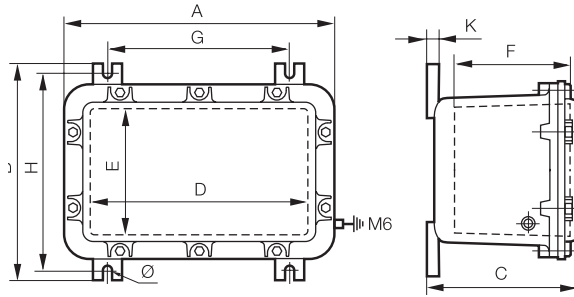
ATX™ JBDA – ECDA Series Customized Enclosures

Flameproof

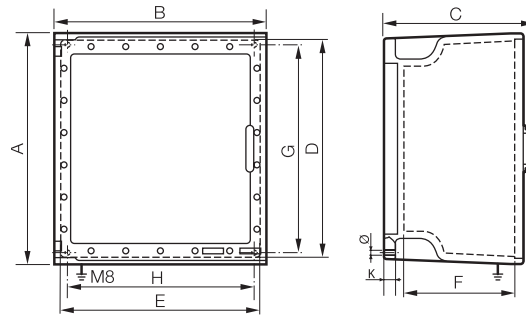
ATEX/IECEx ①: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

JBDA and ECDA: CF10B and CF20B



JBDA and ECDA: CF30B and CF70B



Enclosures and Junction Boxes

Type	A	B	C	D	E	F	G	H	K	Ø
JBDA and ECDA: CF10B and CF20B										
CF10B	259 (10.20)	270 (10.63)	207 (8.15)	190 (7.48)	175 (6.89)	161 (6.34)	140 (5.51)	245 (9.65)	15 (0.59)	11 (0.43)
CF20B	369 (14.53)	270 (10.63)	207 (8.15)	300 (11.81)	175 (6.89)	161 (6.34)	250 (9.84)	245 (9.65)	15 (0.59)	11 (0.43)
JBDA and ECDA: CF30B and CF70B										
CF30B	340 (13.39)	320 (12.60)	238 (9.37)	285 (11.22)	265 (10.43)	161 (6.34)	298 (11.73)	278 (10.94)	20 (0.79)	9 (0.35)
CF40B	455 (17.91)	320 (12.60)	377 (14.84)	395 (15.55)	265 (10.43)	253 (9.96)	391 (15.39)	256 (10.08)	25 (0.98)	11 (0.43)
CF50B	455 (17.91)	440 (17.32)	380 (14.96)	400 (15.75)	376 (14.80)	253 (9.96)	391 (15.39)	376 (14.80)	25 (0.98)	11 (0.43)
CF60B	680 (26.77)	440 (17.32)	445 (17.52)	610 (24.02)	376 (14.80)	292 (11.50)	616 (24.25)	376 (14.80)	25 (0.98)	14 (0.55)
CF70B	680 (26.77)	640 (25.20)	445 (17.52)	610 (24.02)	576 (22.68)	292 (11.50)	616 (24.25)	576 (22.68)	25 (0.98)	14 (0.55)

① Enclosure Type CF1A, CF1B, CF1D, and CF1E are not IECEx certified.

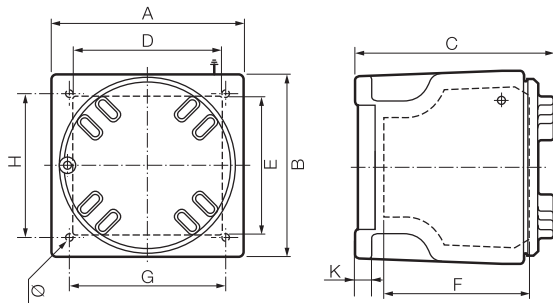
ATX™ JBDA – ECDA Series Customized Enclosures

Flameproof

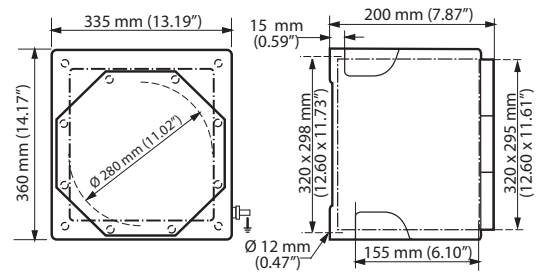
ATEX/IECEx ①: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

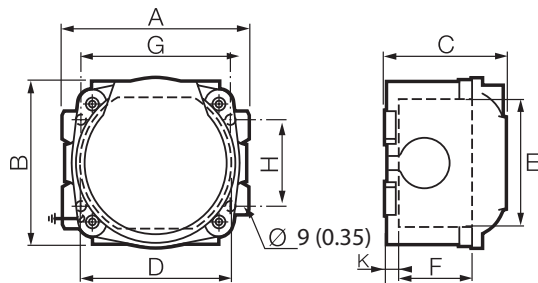
JBDA and ECDA CF10C to CF50C



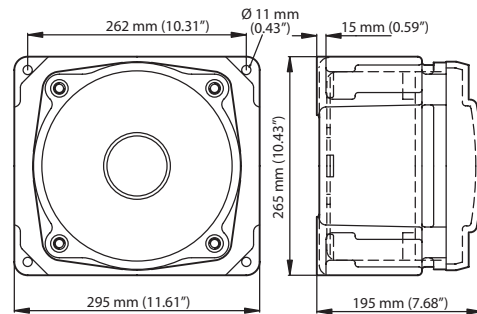
JBDA and ECDA: CF1D



JBDA and ECDA: CF1B and CF1E Type



JBDA and ECDA: CF1A Type



Type	A	B	C	D	E	F	G	H	K	Ø
JBDA and ECDA: CF10C to CF50C										
CF10C	230 (9.06)	215 (8.46)	238 (9.37)	180 (7.09)	165 (6.50)	175 (6.89)	188 (7.40)	173 (6.81)	20 (0.79)	9 (0.35)
CF30C	320 (12.60)	340 (13.39)	234 (9.21)	271 (10.67)	290 (11.42)	154 (6.06)	278 (10.94)	298 (11.73)	20 (0.79)	9 (0.35)
CF50C	440 (17.32)	455 (17.91)	345 (13.58)	386 (15.20)	401 (15.79)	241 (9.49)	376 (14.80)	391 (15.39)	25 (0.98)	11 (0.43)
JBDA and ECDA: CF1B and CF1E										
CF1B	230 (9.06)	210 (8.27)	125 (4.92)	175 (6.89)	175 (6.89)	90 (3.54)	210 (8.27)	100 (3.94)	15 (0.59)	9 (0.35)
CF1E	140 (5.51)	162 (6.38)	121 (4.76)	120 (4.72)	120 (4.72)	80 (3.15)	120 (4.72)	120 (4.72)	12 (0.47)	9 (0.35)

① Enclosure Type CF1A, CF1B, CF1D, and CF1E are not IECEx certified.

ATX™ ECDX Series Customized Welded Steel Enclosures

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Applications

- Designed for use in Zones 1, 2, 21 and 22 in the oil and gas industry; i.e. petroleum, chemical, refineries, and other industrial process facilities.
- Enclosures may be customized to house terminal blocks, and a large range of components; i.e. control units, breakers, starters, relays, meters, etc.

Features

- Enclosures are available in a wide range of sizes.
- Precision machined flameproof joint between body and cover.
- Hinged door.
- External fixing lugs.
- Internal mounting pan.
- Square and round windows available in a wide range of sizes.
- Machining, drilling, and assembly must be done at our factory.
- Power dissipated calculation including cables must be completed according to each size of certified enclosure.

Standard Materials

- Gray painted mechanically welded steel enclosure
- Stainless steel hardware

Options

- Indirect cable entries available through Ex e connection enclosure.
- There are many options for customized enclosures not limited to: terminal strips, selector switches, operators, transformers, etc. Please contact your local representative for more information.

ATEX/IECEx Certifications and Compliances

- Certification Type: CMS
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34 EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T6 to T4



ECDX Series



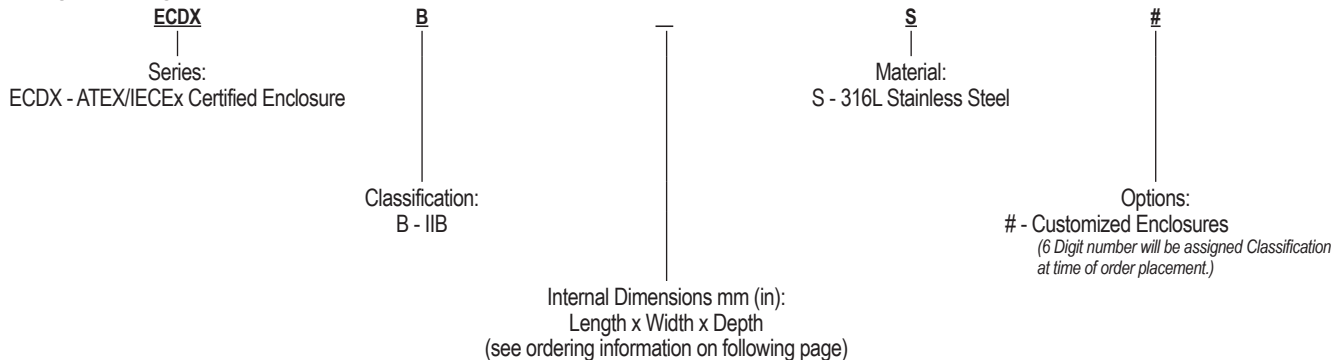
Customized Enclosure

- Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34 EU: Ⓢ II 2 D
 - Type of Protection: Ex tD
 - Surface Temperature: T80 °C to T130 °C (T176 °F to T266 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- ATEX Certificate: LCIE 02 ATEX 6247X
- IECEx Certificate: IECEx LCI 080024X
- Index of Protection according EN/IEC 60529: IP66

INMETRO Certifications

- Certification Type: CMS
 - INMETRO Certificate: BVC 11.0641-X

Catalog Numbering Guide — ECDX Customized Enclosures



ATX™ ECDX Series Customized Welded Steel Enclosures

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Type	Dimensions — L x W x D mm (in)	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Ex d IIB Enclosure in Welded Steel				
CMS3	300 (11.81) x 270 (10.63) x 180 (7.09)	92 (202.83)	234 (14279.6)	ECDXB302718#
CMS4	415 (16.34) x 260 (10.24) x 280 (11.02)	152 (335.10)	234 (14279.6)	ECDXB412628#
CMS5	415 (16.34) x 385 (15.16) x 280 (11.02)	180 (396.83)	369 (22517.8)	ECDXB413828#
CMS6	635 (25.00) x 375 (14.76) x 340 (13.38)	336 (740.75)	647 (39482.4)	ECDXB633734#
CMS7	635 (25.00) x 575 (22.64) x 340 (13.38)	384 (846.58)	647 (39482.4)	ECDXB635734#
CMS47	700 (27.56) x 500 (19.69) x 295 (11.61)	268 (590.84)	698 (42594.6)	ECDXB705029#
CMS43	700 (27.56) x 600 (23.62) x 295 (11.61)	298 (656.98)	698 (42594.6)	ECDXB706029#
CMS46	700 (27.56) x 700 (27.56) x 295 (11.61)	318 (701.07)	698 (42594.6)	ECDXB707029#
CMS44	800 (31.50) x 500 (19.69) x 295 (11.61)	298 (656.98)	698 (42594.6)	ECDXB805029#
CMS40	800 (31.50) x 600 (23.62) x 295 (11.61)	318 (701.07)	698 (42594.6)	ECDXB806029#
CMS42	800 (31.50) x 700 (27.56) x 295 (11.61)	308 (679.02)	698 (42594.6)	ECDXB807029#
CMS45	900 (35.43) x 500 (19.69) x 295 (11.61)	348 (767.21)	698 (42594.6)	ECDXB905029#
CMS41	900 (35.43) x 600 (23.62) x 295 (11.61)	348 (767.21)	698 (42594.6)	ECDXB906029#
CMS57	1000 (39.37) x 550 (21.65) x 295 (11.61)	395 (870.83)	1144 (69811.2)	ECDXB105529#
CMS52	1000 (39.37) x 630 (24.80) x 295 (11.61)	430 (947.99)	1144 (69811.2)	ECDXB106329#
CMS55	1000 (39.37) x 700 (27.56) x 295 (11.61)	452 (996.49)	1144 (69811.2)	ECDXB107029#
CMS53	1200 (47.24) x 550 (21.65) x 295 (11.61)	445 (981.06)	1144 (69811.2)	ECDXB125529#
CMS50	1200 (47.24) x 630 (24.80) x 295 (11.61)	485 (1069.24)	1144 (69811.2)	ECDXB126329#
CMS54	1200 (47.24) x 700 (27.56) x 295 (11.61)	515 (1135.38)	1144 (69811.2)	ECDXB127029#
CMS56	1400 (55.12) x 550 (21.65) x 295 (11.61)	495 (1091.29)	1144 (69811.2)	ECDXB145529#
CMS51	1400 (55.12) x 630 (24.80) x 295 (11.61)	540 (1190.50)	1144 (69811.2)	ECDXB146329#
Ex d IIB Enclosure in 316L Stainless Steel				
CMS3	300 (11.81) x 270 (10.63) x 180 (7.09)	92 (202.83)	234 (14279.6)	ECDXB302718S#
CMS4	415 (16.34) x 260 (10.24) x 280 (11.02)	152 (335.10)	234 (14279.6)	ECDXB412628S#
CMS5	415 (16.34) x 385 (15.16) x 280 (11.02)	180 (396.83)	369 (22517.8)	ECDXB413828S#
CMS6	635 (25.00) x 375 (14.76) x 340 (13.38)	336 (740.75)	647 (39482.4)	ECDXB633734S#
CMS7	635 (25.00) x 575 (22.64) x 340 (13.38)	384 (846.58)	647 (39482.4)	ECDXB635734S#
CMS47	700 (27.56) x 500 (19.69) x 295 (11.61)	268 (590.84)	698 (42594.6)	ECDXB705029S#
CMS43	700 (27.56) x 600 (23.62) x 295 (11.61)	298 (656.98)	698 (42594.6)	ECDXB706029S#
CMS46	700 (27.56) x 700 (27.56) x 295 (11.61)	318 (701.07)	698 (42594.6)	ECDXB707029S#
CMS44	800 (31.50) x 500 (19.69) x 295 (11.61)	298 (656.98)	698 (42594.6)	ECDXB805029S#
CMS40	800 (31.50) x 600 (23.62) x 295 (11.61)	318 (701.07)	698 (42594.6)	ECDXB806029S#
CMS42	800 (31.50) x 700 (27.56) x 295 (11.61)	308 (679.02)	698 (42594.6)	ECDXB807029S#
CMS45	900 (35.43) x 500 (19.69) x 295 (11.61)	348 (767.21)	698 (42594.6)	ECDXB905029S#
CMS41	900 (35.43) x 600 (23.62) x 295 (11.61)	348 (767.21)	698 (42594.6)	ECDXB906029S#
CMS57	1000 (39.37) x 550 (21.65) x 295 (11.61)	395 (870.83)	1144 (69811.2)	ECDXB105529S#
CMS52	1000 (39.37) x 630 (24.80) x 295 (11.61)	430 (947.99)	1144 (69811.2)	ECDXB106329S#
CMS55	1000 (39.37) x 700 (27.56) x 295 (11.61)	452 (996.49)	1144 (69811.2)	ECDXB107029S#
CMS53	1200 (47.24) x 550 (21.65) x 295 (11.61)	445 (981.06)	1144 (69811.2)	ECDXB125529S#
CMS50	1200 (47.24) x 630 (24.80) x 295 (11.61)	485 (1069.24)	1144 (69811.2)	ECDXB126329S#
CMS54	1200 (47.24) x 700 (27.56) x 295 (11.61)	515 (1135.38)	1144 (69811.2)	ECDXB127029S#
CMS56	1400 (55.12) x 550 (21.65) x 295 (11.61)	495 (1091.29)	1144 (69811.2)	ECDXB145529S#
CMS51	1400 (55.12) x 630 (24.80) x 295 (11.61)	540 (1190.50)	1144 (69811.2)	ECDXB146329S#



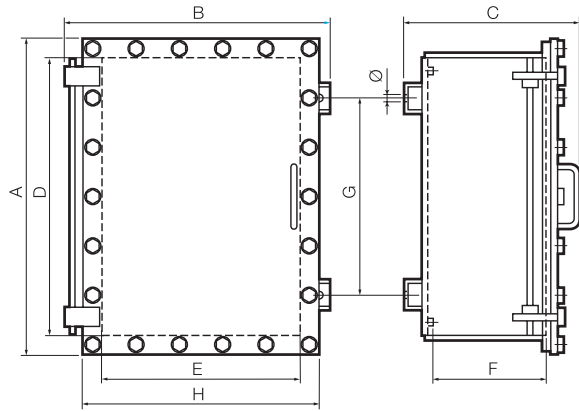
Enclosures and Junction Boxes

ATX™ ECDX Series Customized Welded Steel Enclosures

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches)



Enclosures and Junction Boxes

Type	External		Internal				Fixings Lug Thick		mm (in)	Ø
	A	B	C	D	E	F	G	H		
CMS3	396 (15.59)	449 (17.67)	313 (12.32)	313 (12.32)	270 (10.63)	180 (7.09)	200 (7.87)	370 (14.57)	7 (0.28)	16 (0.63)
CMS4	511 (20.11)	439 (17.28)	413 (16.25)	415 (16.34)	260 (10.24)	280 (11.02)	315 (12.40)	360 (14.17)	7 (0.28)	16 (0.63)
CMS5	511 (20.11)	564 (22.20)	413 (16.25)	415 (16.34)	385 (15.16)	280 (11.02)	315 (12.40)	485 (19.09)	7 (0.28)	16 (0.63)
CMS6	731 (28.77)	554 (21.81)	473 (18.62)	635 (25)	375 (14.76)	340 (13.39)	455 (17.91)	475 (18.70)	7 (0.28)	16 (0.63)
CMS7	731 (28.77)	756 (29.76)	475 (18.70)	635 (25)	575 (22.64)	340 (13.39)	470 (18.50)	675 (26.57)	7 (0.28)	16 (0.63)
CMS47	796 (31.34)	679 (26.73)	443 (17.44)	700 (27.56)	500 (19.69)	295 (11.61)	500 (19.69)	600 (23.62)	7 (0.28)	18 (0.71)
CMS43	796 (31.34)	779 (30.66)	443 (17.44)	700 (27.56)	600 (23.62)	295 (11.61)	500 (19.69)	700 (27.56)	7 (0.28)	18 (0.71)
CMS46	796 (31.34)	879 (34.60)	443 (17.44)	700 (27.56)	700 (27.56)	295 (11.61)	500 (19.69)	800 (31.50)	7 (0.28)	18 (0.71)
CMS44	896 (35.28)	679 (26.73)	443 (17.44)	800 (31.50)	500 (19.69)	295 (11.61)	600 (23.62)	600 (23.62)	7 (0.28)	18 (0.71)
CMS40	896 (35.28)	779 (30.66)	448 (17.63)	800 (31.50)	600 (23.62)	295 (11.61)	600 (23.62)	700 (27.56)	7 (0.28)	18 (0.71)
CMS42	896 (35.28)	879 (34.60)	448 (17.63)	800 (31.50)	700 (27.56)	295 (11.61)	600 (23.62)	800 (31.50)	7 (0.28)	18 (0.71)
CMS45	996 (39.21)	679 (26.73)	443 (17.44)	900 (35.43)	500 (19.69)	295 (11.61)	600 (23.62)	600 (23.62)	7 (0.28)	18 (0.71)
CMS41	996 (39.21)	779 (30.66)	448 (17.63)	900 (35.43)	600 (23.62)	295 (11.61)	600 (23.62)	700 (27.56)	7 (0.28)	18 (0.71)
CMS57	1125 (44.29)	776 (30.55)	450 (17.71)	1000 (39.37)	550 (21.65)	295 (11.61)	700 (27.56)	660 (25.98)	7 (0.28)	22 (0.87)
CMS52	1125 (44.29)	856 (33.70)	450 (17.71)	1000 (39.37)	630 (24.80)	295 (11.61)	700 (27.56)	740 (29.13)	7 (0.28)	22 (0.87)
CMS55	1125 (44.29)	926 (36.45)	450 (17.71)	1000 (39.37)	700 (27.56)	295 (11.61)	700 (27.56)	810 (31.89)	7 (0.28)	22 (0.87)
CMS53	1325 (52.17)	776 (30.55)	450 (17.71)	1200 (47.24)	550 (21.65)	295 (11.61)	900 (35.43)	660 (25.98)	7 (0.28)	22 (0.87)
CMS50	1325 (52.17)	856 (33.70)	450 (17.71)	1200 (47.24)	630 (24.80)	295 (11.61)	900 (35.43)	740 (29.13)	7 (0.28)	22 (0.87)
CMS54	1325 (52.17)	926 (36.45)	450 (17.71)	1200 (47.24)	700 (27.56)	295 (11.61)	900 (35.43)	810 (31.89)	7 (0.28)	22 (0.87)
CMS56	1525 (60.04)	776 (30.55)	450 (17.71)	1400 (55.12)	550 (21.65)	295 (11.61)	1100 (43.31)	660 (25.98)	7 (0.28)	22 (0.87)
CMS51	1525 (60.04)	856 (33.70)	450 (17.71)	1400 (55.12)	630 (24.80)	295 (11.61)	1100 (43.31)	740 (29.13)	7 (0.28)	22 (0.87)

APD Series Customized Enclosures

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Enclosures are designed to facilitate electrical connections in hazardous areas as a Junction Box and Control Panels.
- Enclosures may be customized to house terminal blocks, and a large range of components; i.e. control units, breakers, starters, relays, meters, etc.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres, such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos
 - Other facilities

Features

- Enclosures are available in 8 sizes for power distribution and automation application.
- Precision machined flameproof joint between body and cover.
- Silicon gaskets for size APD_H 231515, APD_H 352725, APD_H 404028 and APD_C 454530.
- External fixing brackets in ss304.
- Internal mounting plate.
- Internal earth: mounting plate provided with a screw of size M6 to M10.
- External earth: M8 to M12 stud.
- Operating temperature -30 °C to +60 °C (-22 °F to +140 °F) (see Certifications and Compliances for details).
- Electrical data: maximum voltage -AC up to 690 Vac/440 Vdc current rating:
 - APD_H 556528 / 757528 / 759528 / 619628 - 1200AAC/DC
 - APD_H 231515 / 352725 / 404028 / 454530 - 400AAC/DC

Standard Material

- Housing: aluminum; 304/316L stainless steel available on request
- Brackets - MS powder coated (stainless steel available as option)
- Cover bolts: stainless steel property Class A2-70
- Hinges: stainless steel
- Hardware: 304 stainless steel; 316 stainless steel available on request
- Earth stud: 304 stainless steel, standard

Standard Finishes

- Housing: marine grade gray epoxy powder coat. Other colors available on request.

Options

- Indirect cable entries through Ex e connection is available as option.
- Factory assembled and wired.
- Empty enclosure with Ex "U" component marking for recertifying by Certifying body.
- Switchrack Assembly

ATEX/IECEx Certifications and Compliances

- Certification Type: APAH/APSH
 - Models: APD_H 556528 / APD_H 757528 / APD_H 759628 / APD_H 619628
 - Gas, Zones 1 and 2:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2G
 - Type of Protection: Ex db IIB+H2 T° Gb



- Temperature Class: T6 to T4
- Index of Protection according EN/IEC 60529: IP66
- Ambient Temperature: -20 °C +55 °C (-4 °F to +131 °F)
- Dust, Zones 21 and 22:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T Db
 - Surface Temperature: T85 °C to T135 °C (T185 °F to T275 °F)
- ATEX Certificate: Baseefa 19ATEX0059X
- IECEx Certificate: IECEx BAS 19.0047X
- Certification Type: APAH/APSH
 - Models: APD_H 231515 / APD_H 352725 / APD_H 404028
 - Gas: Zones 1 and 2
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIB+H2 T° Gb
 - Temperature Class: T6 to T4
 - Index of Protection according EN/IEC 60529: IP66
 - Ambient Temperature: -30 °C to +60 °C (-22 °F to +140 °F)
 - Dust: Zones 21 and 22
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T Db
 - Surface Temperature: T80 °C to T130 °C
 - ATEX Certificate: ETL23ATEX0318X
 - IECEx Certificate: IECEx ITS 23.0016X
- Certification Type: APAH/APSH
 - Model: APD_C454530
 - Gas: Zones 1 and 2
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIC T° Gb
 - Temperature Class: T6 to T4
 - Index of Protection according EN/IEC 60529: IP66
 - Ambient Temperature: -20 °C +60 °C (-4 °F to +140 °F)
 - Dust: Zones 21 and 22
 - Conforming to Directive 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T° Ob
 - Surface Temperature: T80 °C to T130 °C
 - ATEX Certificate: ETL23ATEX0318X
 - IECEx Certificate: IECEx ITS 23.0016X

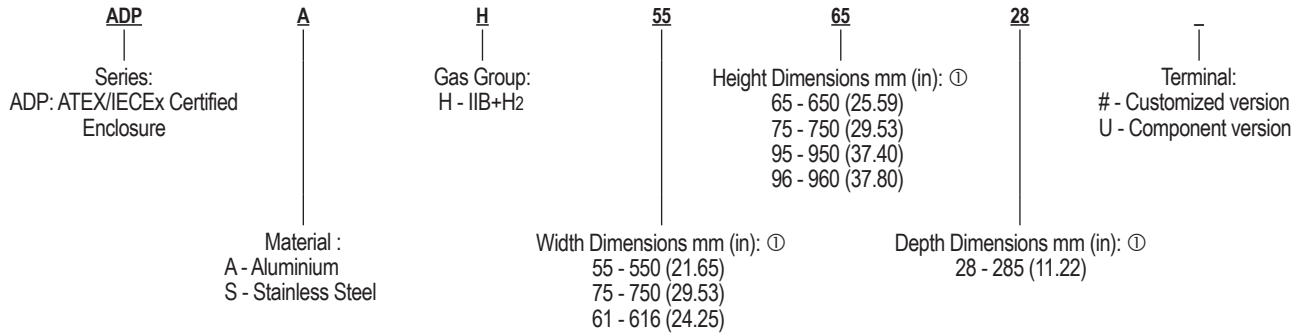
APD Series Customized Enclosures

Flameproof

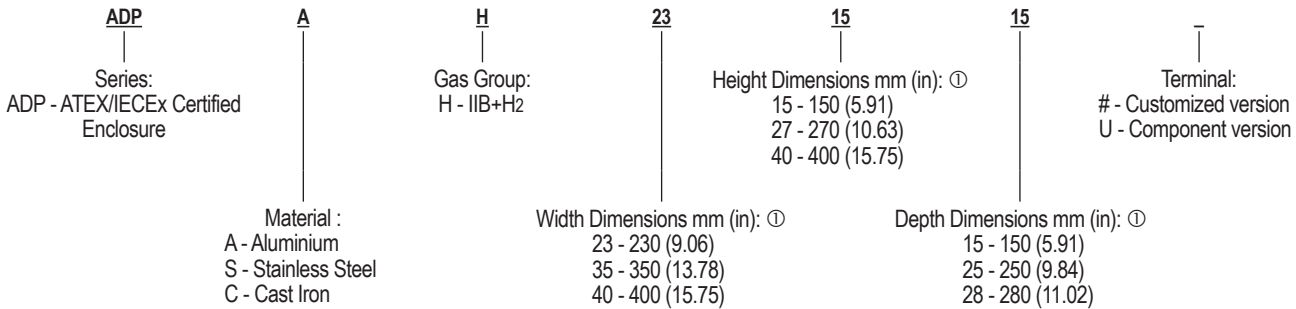
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Enclosures and Junction Boxes

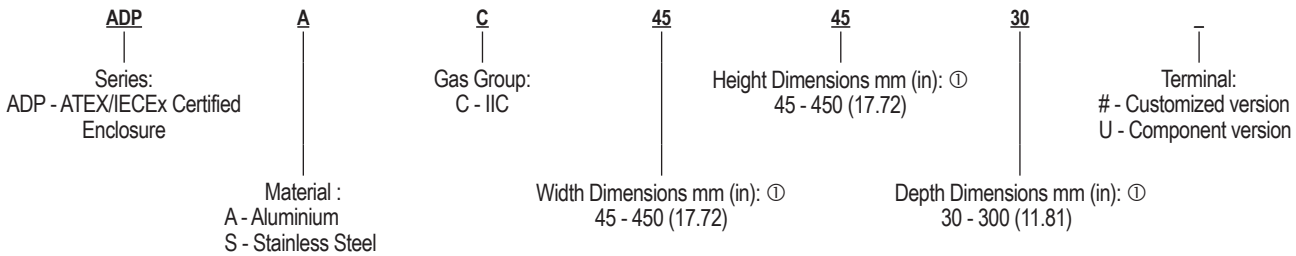
Catalog Numbering Guide — APD Series Models: APD_H 556528 / APD_H 757528 / APD_H 759628 / APD_H 619628



Catalog Numbering Guide — APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



Catalog Numbering Guide — APD Series Models: APD_C454530



Mounting Plate — MS Painted — 2 mm (0.079) Thick

Enclosure Catalog Number	Dimensions in mm (in)		Catalog Number	
	Width	Height	Aluminium	Stainless Steel
APD_H 231515	145 (5.71)	225 (8.86)	AH 2315-Z	AH 2315-S
APD_H 352725	260 (10.24)	340 (13.39)	AH 3527-Z	AH 3527-S
APD_H 404028	380 (14.96)	380 (14.96)	AH 4040-Z	AH 4040-S
APD_C 454530	380 (14.96)	380 (14.96)	AH 4545-Z	AH 4545-S
APD_H 556528	490 (19.29)	590 (23.23)	AH 5565-Z	AH 5565-S
APD_H 757528	690 (27.17)	690 (27.17)	AH 7575-Z	AH 7575-S
APD_H 759528	690 (27.17)	890 (35.04)	AH 7595-Z	AH 7595-S
APD_H 619628	554 (21.81)	896 (35.28)	AH 6196-Z	AH 6196-S

① Dimensions represents internal size of the enclosure.

APD Series Customized Enclosures

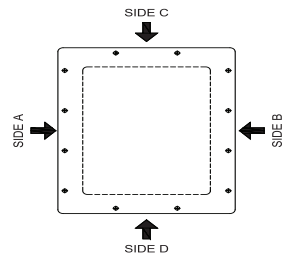
Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

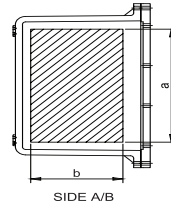
Cable Entry Options

APD_H

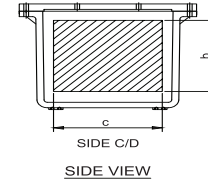
Front View



Side A/B View

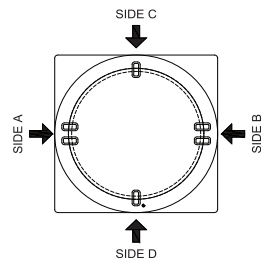


Side B/C View

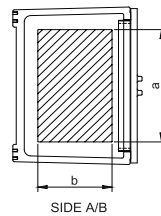


APD_C

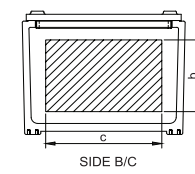
Front View



Side A/B View



Side B/C View



Metric	NPT	APD_H 231515		APD_H 352725		APD_H 404028		APD_C 454530		APD_H 556528		APD_H 757528		APD_H 759528		APD_H 619628	
		Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D	Side A/B	Side C/D
M16 x 1.5	1/2"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M20 x 1.5	1/2" to 3/4"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M25 x 1.5	3/4"	8	4	15	12	15	12	15	12	27	24	36	36	39	27	39	27
M32 x 1.5	1"	4	2	8	4	8	4	8	4	12	10	14	14	24	20	24	16
M40 x 1.5	1-1/4"	1	1	6	3	6	3	6	3	12	10	14	14	20	14	20	14
M50 x 1.5	1-1/2" to 2"	1	1	3	2	3	2	3	2	8	8	10	10	12	12	12	10
M63 x 1.5	2-1/2" to 3"	—	—	2	1	2	1	2	1	4	4	5	5	7	5	7	4
M75 x 1.5	3" to 3-1/2"	—	—	—	—	1	1	1	1	4	3	5	5	6	5	6	4
M90 x 1.5	3" to 3-1/2"	—	—	—	—	1	1	1	1	3	3	4	4	5	4	5	3
M100 x 1.5	4" to 4-1/2"	—	—	—	—	1	1	1	1	3	3	4	4	4	4	4	3

Enclosures and Junction Boxes

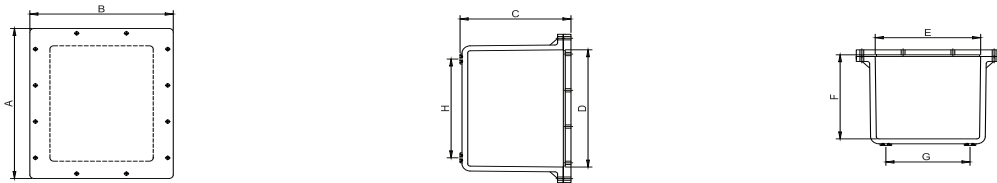
APD Series Customized Enclosures

Flameproof

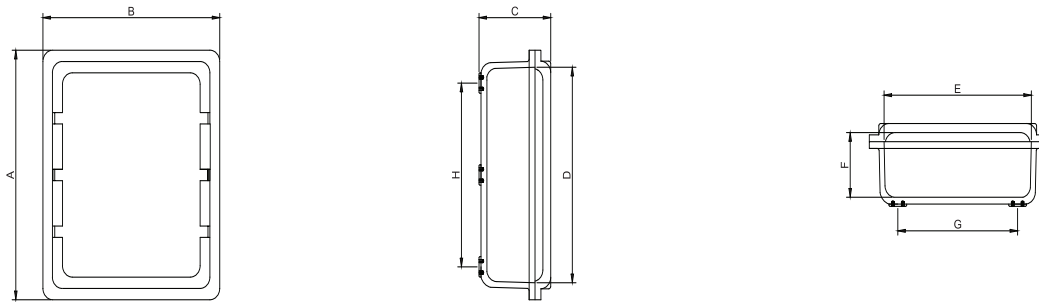
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

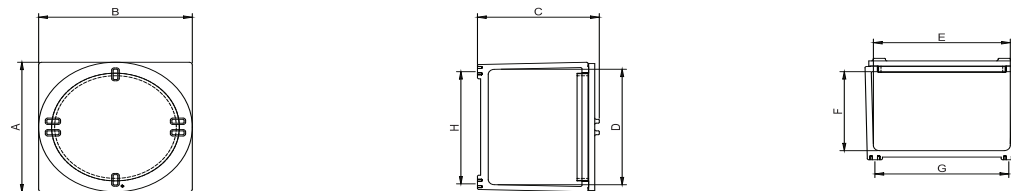
APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



APD Series Models: APD_H 231515 / APD_H 352725 / APD_H 404028



APD Series Models: APD_C454530



Catalog Number	External		Internal			Mounting			Approx. Weight kg (lbs)
	A	B	C	D	E	F	G	H	
APD_H 231515	335 (13.19)	255 (10.04)	180 (7.09)	230 (9.06)	150 (5.91)	150 (5.91)	100 (3.94)	180 (7.09)	10 (22.05)
APD_H 352725	455 (17.91)	375 (14.76)	280 (11.02)	350 (13.78)	270 (10.63)	245 (9.65)	220 (8.66)	300 (11.81)	32 (70.55)
APD_H 404028	510 (20.08)	510 (20.08)	340 (13.39)	400 (15.75)	400 (15.75)	290 (11.42)	300 (11.81)	300 (11.81)	60 (132.28)
APD_C 454530	505 (19.88)	505 (19.88)	410 (16.14)	450 (17.72)	450 (17.72)	310 (12.20)	440 (17.32)	440 (17.32)	74 (163.14)
APD_H 556528	788 (31.02)	688 (27.09)	350 (13.78)	650 (25.59)	550 (21.65)	284 (11.18)	400 (15.75)	500 (19.68)	127 (279.99)
APD_H 757528	888 (34.96)	888 (34.96)	350 (13.78)	750 (29.53)	750 (29.53)	284 (11.18)	600 (23.62)	600 (23.62)	225 (496.04)
APD_H 759528	1124 (44.25)	924 (36.38)	365 (14.37)	950 (37.40)	750 (29.53)	280 (11.02)	590 (23.23)	800 (31.50)	275 (606.27)
APD_H 619628	1140 (46.85)	790 (31.10)	365 (14.37)	960 (37.80)	616 (24.25)	280 (11.02)	466 (18.35)	806 (31.73)	256 (564.38)

APDAC/APDSC Series Enclosures and Junction Boxes

Flameproof

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres, such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos
 - Other facilities



APD_C13

Features

- High impact resistant box.
- Pillar/Screw type terminal block up to 16 sq.mm is available in standard sizes.
- Internal Earth: one of the mounting holes for terminals is provided with M5 Screws.
- External Earth: M5 screw.
- Back plate supplied as option.
- Operating temperature -20 °C to +55 °C (-4 °F to +131 °F).
- Empty enclosures with 'U' certification marking for re-certification is available.
- Electrical data:
 - Maximum voltage: AC, 690 Vac/440 Vdc
 - Current rating: 50 Vac/Vdc

Standard Material

- Housing: aluminum; 304/316L stainless steel available on request
- Hardware: stainless steel

Standard Finishes

- Housing: marine grade gray epoxy powder coat.

ATEX/IECEX Certifications and Compliances

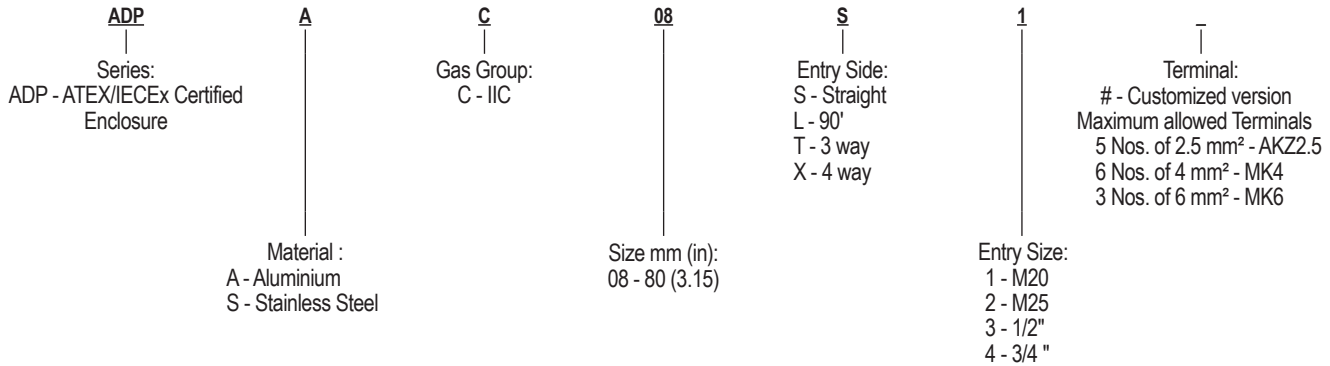
- Certification Type: APDAC/APDSC
 - Gas, Zones 1 and 2:
 - Conforming to Directive ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex db IIC T* Gb
 - Temperature Class:
 - T6: 10 Watt Maximum Power Dissipation
 - T5: 20 Watt Maximum Power Dissipation
 - Dust, Zones 21 and 22:
 - Conforming to Directive ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T* Db
 - Surface Temperature: T75 °C to T90 °C (T167 °F to T194 °F)
 - T75 °C: 10 Watt Maximum Power Dissipation
 - T90 °C: 20 Watt Maximum Power Dissipation
 - Ambient Temperature: -20 °C ≤ to ≤ +55 °C (-4 °F ≤ to ≤ +131 °F)
- ATEX Certificate: ExVeritas 19ATEX 0523X;
ExVeritas 19ATEX 0524U
- IECEX Certificate: IECEX EXV: 19.0047X; IECEX EXV 119.0048U
- Index of Protection according EN/IEC 60529: IP66
- Internal Volume: ≤ 2 dm³ (122 in³) — 2 liters

APDAC/APDSC Series Enclosures and Junction Boxes

Flameproof

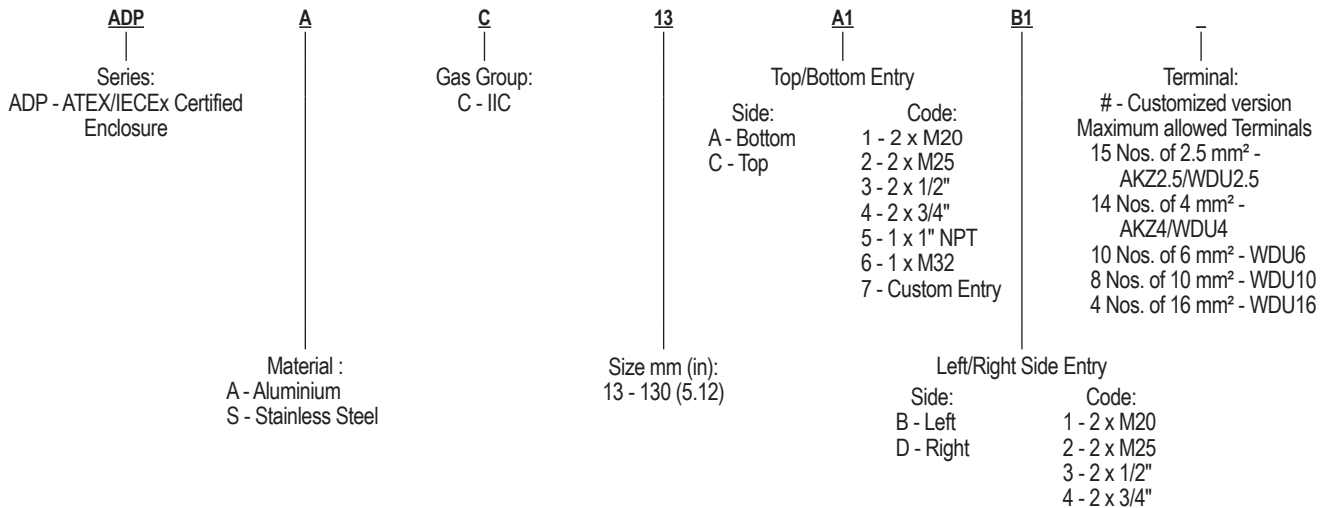
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — APD Series — 80 mm (3.15 in) Diameter Enclosure



Equipment	Catalog Number ①
Threaded Entries on 3 sides	
3 x M20 entries (in a "T")	APDAC 08 T1#
3 x M25 entries (in a "T")	APDAC 08 T2 #
Threaded Entries on 4 sides	
4 x M20 entries (in a cross)	APDAC 08 X1 #
4 x M25 entries (in a cross)	APDAC 08 X2 #
Customized Enclosures	
Non-standard Entry	APDAC 08 #

Catalog Numbering Guide — APD Series — 130 mm (5.12 in) Diameter Enclosure



Equipment	Catalog Number ①
Threaded Entries at Bottom	
2 Way Enclosure with M20 entry at bottom	APDAC 13 A1 #
3 Way Enclosure with 2 Nos. 3/4" entry at bottom and one no. of 3/4" entry on Left side	APDAC 13 A3 B3 #
3 Way Enclosure with 2 Nos. of M25 entry at bottom and one no. of M20 on top	APDAC 13 A2 B1 #
Customized Enclosures	
Entry on any side	APDAC 13 #

① For other configuration, contact your local sales representative.

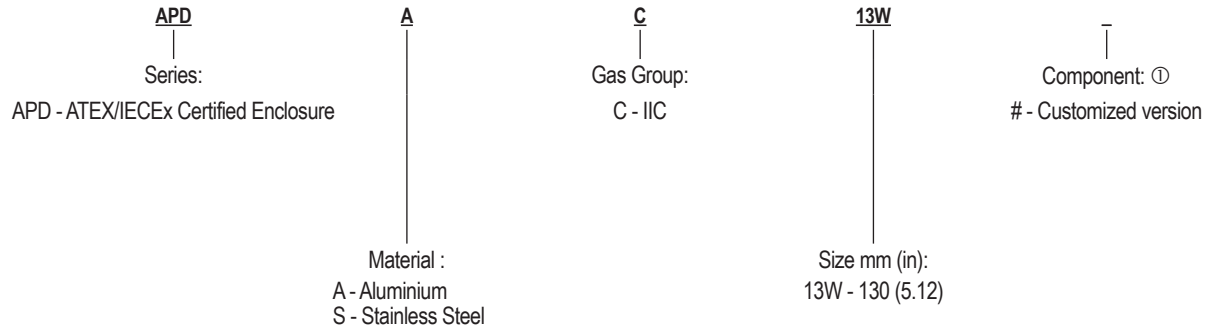
APDAC/APDSC Series Enclosures and Junction Boxes

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

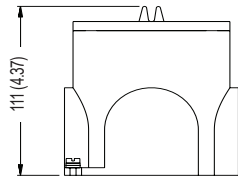
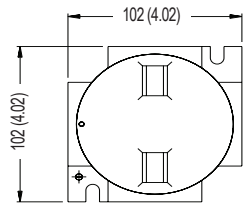
Catalog Numbering Guide — APD Series 130 mm (5.12 in) Diameter Metering Enclosure

Side A and C: Double Entry. Side B and D: Single Entry

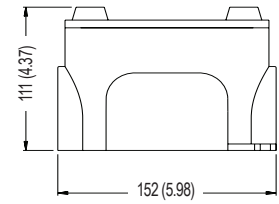
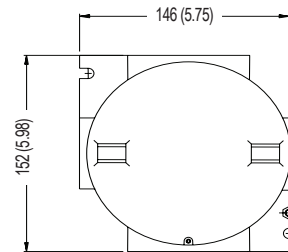


Dimensions in Millimeters (Inches)

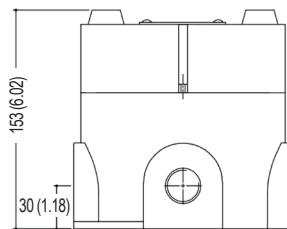
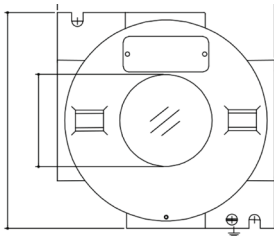
APD_C08



APD_C13



APD_C13W



Type	Internal			External		Weight kg (lb)	
	Dia Ø	Height	Length	Width	Height	Aluminum	Stainless Steel
APD_C08	80 9 (3.15)	88 (3.46)	102 (4.02)	102 (4.02)	111 (4.37)	1.10 (2.20)	3.21 (7.08)
APD_C13	130 (5.12)	88 (3.46)	152 (5.98)	152 (5.98)	111 (4.37)	1.60 (3.53)	4.70 (10.36)
APD_C13W	130 (5.12)	121 (4.76)	152 (5.98)	152 (5.98)	153 (6.02)	2.00 (4.41)	5.92 (13.05)

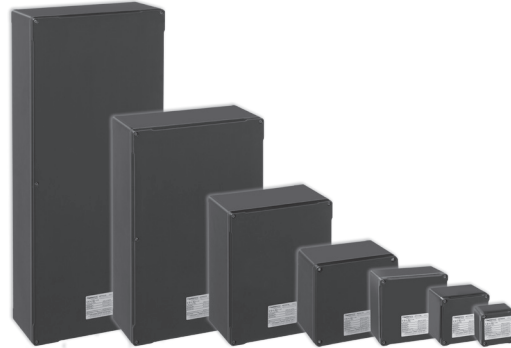
ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
ATEX/IECEX: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammables dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities



Features

- Available in a wide range of sizes:
 - For armored or unarmored cable with appropriate ATEX/IECEX certified cable glands
 - For use with Mantle Clamping (Pillar Terminals) for use as instrumentation, electrical or power terminals
 - For use with a variety of connection and earth terminals
- Refer to the terminal tables to determine the permitted size and quantity of terminals.

INMETRO Certifications

- INMETRO Certificate: BVC13.3238-X

Related Products

- For information on the full range of ATEX/IECEX certified cable entries for use with armored and unarmored cable, refer to Cable Glands section.

Standard materials

- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket: silicone

Options

- Nameplates
- Mounting pan
- Terminal rail
- Inside pocket for document
- Consult factory for custom drilling and assembly requirements.

ATEX/IECEX Certifications and Compliances ①

- Certification Type: JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Conforming to IECEX: EPL Gb
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ia or ib IIC
 - Temperature Class: T6 ②
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Conforming to IECEX: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature : T68 °C (T154.4 °F)
- Ambient Temperature: -55 °C à +55°C (-67 °F à +131 °F)
- ATEX Certificate: LCIE 12 ATEX 3037X
- IECEX Certificate: IECEX LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66

① cCSAus certification available on special request only. Contact your local sales representative for more information.

② For different temperature classes and ambient temperatures consult your local representative.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Catalog Numbering Guide - JBEP Undrilled and Pre-Drilled, Empty Junction Boxes

<p>JBE</p> <p> </p> <p>Series: JBE - ATEX/IECEX Certified Junction Box</p>	<p>P</p> <p> </p> <p>Material: P - Polyester</p>	<p>08</p> <p> </p> <p>Dimensions Height mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 20 - 200 (7.87) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>08</p> <p> </p> <p>Dimensions Width mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 21 - 215 (8.46) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>06</p> <p> </p> <p>Dimensions Depth mm (in): 06 - 61 (2.36) 09 - 91 (3.58) 15 - 150 (5.91) 23 - 230 (9.06)</p>	<p>0</p> <p> </p> <p>Gland Plates 0 - No Gland Plate</p>	<p>G</p> <p> </p> <p>Options: <i>(Options must be listed alphabetically)</i> A - Earth continuity Brass Plate G - Cable Glands M - Mounting Pan HR - Horizontal DIN-Rail VR - Vertical DIN-Rail # - Customized at Factory</p>
---	---	---	--	--	---	--

Enclosures and Junction Boxes

① cCSAus certification available on special request only. Contact your local sales representative for more information.






ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Polyester Enclosures

For use with Ex certified terminals only (not supplied). DIN-Rail not supplied.
 For DIN Rail dimensions, see DIN Rail Sizes chart on following page.

Model	Dimension - H x W x D mm (in)	Enclosure Weight kg (lbs)	Enclosure Volume dm ³ (in ³)	Shipping Carton Volume dm ³ (in ³)	Catalog Number
 JBEP1	85 x 85 x 61 (3.35 x 3.35 x 2.40)	0.38 (0.84)	0.43 (26.45)	1.35 (82.38)	JBEP0808060 ②
 JBEP2	120 x 120 x 91 (4.75 x 4.75 x 3.58)	0.75 (1.65)	1.31 (79.97)	1.98 (121.10)	JBEP121209S0
JBEP3	170 x 170 x 91 (6.69 x 6.69 x 3.58)	1.32 (2.91)	2.63 (160.49)	4.04 (246.56)	JBEP1717090
JBEP4	200 x 215 x 95 (7.87 x 8.47 x 3.74)	2.06 (4.54)	4.09 (249.28)	9.54 (582.17)	JBEP2021100
JBEP5	200 x 215 x 145 (7.87 x 8.47 x 5.70)	2.67 (5.89)	6.45 (393.60)	9.54 (582.17)	JBEP2021150
 JBEP6	250 x 320 x 150 (9.84 x 12.60 x 5.91)	3.90 (8.60)	12.00 (732.28)	19.35 (1181.01)	JBEP2532150
	320 x 250 x 150 (12.60 x 9.84 x 5.91)	3.90 (8.60)	12.00 (732.28)	19.35 (1181.01)	JBEP3225150
 JBEP7	500 x 320 x 150 (19.69 x 12.60 x 5.91)	6.39 (14.00)	24.00 (1464.57)	71.63 (4371.33)	JBEP5032150
	320 x 500 x 150 (12.60 x 19.69 x 5.91)	6.39 (14.00)	24.00 (1464.57)	71.63 (4371.33)	JBEP3250150
	500 x 320 x 230 (19.69 x 12.60 x 9.06)	8.02 (17.68)	36.80 (2245.67)	71.63 (4371.33)	JBEP5032230
	320 x 500 x 230 (12.60 x 19.69 x 9.06)	8.02 (17.68)	36.80 (2245.67)	71.63 (4371.33)	JBEP3250230
 JBEP8	750 x 320 x 150 (29.53 x 12.60 x 5.91)	8.69 (19.16)	36.00 (2196.85)	46.41 (2831.84)	JBEP7532150
	320 x 750 x 150 (12.60 x 29.53 x 5.91)	8.69 (19.16)	36.00 (2196.85)	46.41 (2831.84)	JBEP3275150
	750 x 320 x 230 (29.53 x 12.60 x 9.06)	11.54 (25.44)	55.20 (3368.51)	82.13 (5011.76)	JBEP7532230
	320 x 750 x 230 (12.60 x 29.53 x 9.06)	11.54 (25.44)	55.20 (3368.51)	82.13 (5011.76)	JBEP3275230

① cCSAus certification available on special request only. Contact your local sales representative for more information.

② Due to the small size of the JBEP0808060, the optional Laminated Plastic Nameplate for Engraving is not recommended for this enclosure.
 The 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) dimensions do not allow for mounting space beyond the factory adhered product label.

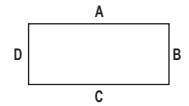
ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes




Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes
 Equipped with One horizontal Symmetrical Zinc Plated Rail, Yellow Laminated Plastic Label with Black Lettering,
 Internal Earth Terminal, and Earth Continuity Device.

For use with Ex terminals only (not supplied). Cable glands and plugs ordered separately.



Model	Rail Length Capacity (mm)	Clearance Holes Per Side				Weight kg (lb)	Volume dm ³ (in ³)	Dimensions H x W x D mm (in)	Catalog Number
		A	B	C	D				
	41	—	1 x M20	1 x M20	1 x M20	0.42 (0.93)	0.44 (26.9)	85 x 85 x 60 (3.35 x 3.35 x 2.36)	JBEP080806003 ②
	41	1 x M20	1 x M20	1 x M20	1 x M20	0.42 (0.93)	0.44 (26.9)	85 x 85 x 60 (3.35 x 3.35 x 2.36)	JBEP080806004 ②
	73	—	1 x M20	1 x M20	1 x M20	0.85 (1.87)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209003
	73	1 x M20	1 x M20	1 x M20	1 x M20	0.85 (1.87)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209004
	122	1 x M20	1 x M20	1 x M20	1 x M20	1.54 (3.40)	2.65 (162.0)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709004
	122	—	2 x M20	2 x M20	2 x M20	1.54 (3.40)	2.65 (162.0)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709006
	122	1 x M25	1 x M25	1 x M25	1 x M25	1.54 (3.40)	2.65 (162.0)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709014
	122	—	2 x M25	2 x M25	2 x M25	1.54 (3.40)	2.65 (162.0)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709016

Enclosures and Junction Boxes

① cCSAus certification available on special request only. Contact your local sales representative for more information.
 ② Due to the size of JBEP0808060, optional Laminated Plastic Nameplate for Engraving is not recommended for this enclosure.
 The 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) dimensions do not allow for mounting space beyond the factory adhered product label.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

The use of terminals, its brand name and quantity in a JBEP junction box model is strictly determined by certification and mandatory to follow. For each terminal cross section and type of terminals make a choice based on rated voltage, maximum current allowed and follow maximum terminals quantity allowed.

				T6 for -55 °C to +55 °C (-67 °C to +131 °F)									
				JBEP1		JBEP2		JBEP3		JBEP4			
				Imax: 69% Pmax: 1,71 W		Imax: 54% Pmax: 1,50W		Imax: 54% Pmax: 4,87 W		Imax: 46% Pmax: 3,91 W			
Terminals	Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm² (in²)	Rated Voltage	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity
2.5	Weidmuller		WDU2,5	2.5 (0.0039)	690 V	16	5	12	6	12	16	11	13
	Weidmuller		ZDU2,5	2.5 (0.0039)	550 V	15	3	11	4	11	13	10	11
	Phoenix		UT2,5	2.5 (0.0039)	690 V	14	6	11	7	11	18	9	19
	Phoenix		PT2,5	2.5 (0.0039)	550 V	13	5	10	6	10	18	8	20
	Phoenix		MBK 3/E-Z	2.5 (0.0039)	275 V	14	6	11	6	11	17	9	18
	Wago		TOPJOB S 2002	2.5 (0.0039)	550 V	14	3	11	4	11	12	9	13
	Wago		TOPJOB S 2202	2.5 (0.0039)	550 V	15	3	11	5	11	14	10	12
4	Weidmuller		WDU4	4 (0.0062)	690 V	N/A	N/A	17	4	17	12	14	12
	Weidmuller		ZDU4	4 (0.0062)	550 V	N/A	N/A	15	3	12	10	12	11
	Phoenix		UT4	4 (0.0062)	690 V	N/A	N/A	16	5	16	14	13	14
6	Weidmuller		WDU6	6 (0.0093)	690 V	N/A	N/A	22	4	22	11	18	11
	Weidmuller		ZDU6	6 (0.0093)	550 V	N/A	N/A	21	2	21	7	17	8
	Phoenix		UT6	6 (0.0093)	690 V	N/A	N/A	21	4	21	11	18	11
10	Weidmuller		WDU10	10 (0.0155)	690 V	N/A	N/A	N/A	N/A	30	9	26	8
	Weidmuller		ZDU10	10 (0.0155)	690 V	N/A	N/A	N/A	N/A	27	6	23	6
	Phoenix		UT10	10 (0.0155)	690 V	N/A	N/A	N/A	N/A	29	9	24	9
16	Weidmuller		WDU16	16 (0.0248)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phoenix		UT16	16 (0.0248)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller		ZDU16	16 (0.0248)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	Weidmuller		WDU35	35 (0.0543)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller		ZDU35	35 (0.0543)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phoenix		UT35	35 (0.0543)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	Weidmuller		WDU50N	50 (0.0775)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	Weidmuller		WDU70N	70 (0.1085)	690 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120	Weidmuller		WDU95N/120N	95 (0.1473)	880 V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

① cCSAus certification available on special request only. Contact your local sales representative for more information.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

The use of terminals, its brand name and quantity in a JBEP junction box model is strictly determined by certification and mandatory to follow. For each terminal cross section and type of terminals make a choice based on rated voltage, maximum current allowed and follow maximum terminals quantity allowed.

				T6 for -55 °C to +55 °C (-67 °C to +131 °F)									
				JBEP5		JBEP6		JBEP7		JBEP8			
				Imax: 54% Pmax: 9,49 W		Imax: 47% Pmax: 8,80 W		Imax: 46% Pmax: 16,67 W		Imax: 43% Pmax: 18,71 W			
Terminals	Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm² (in²)	Rated Voltage	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity
2.5	Weidmuller		WDU2,5	2.5 (0.0039)	690 V	12	25	11	21	11	29	10	30
	Weidmuller		ZDU2,5	2.5 (0.0039)	550 V	11	22	10	20	10	29	9	32
	Phoenix		UT2,5	2.5 (0.0039)	690 V	11	29	9	32	9	43	9	37
	Phoenix		PT2,5	2.5 (0.0039)	550 V	10	30	8	35	8	49	8	43
	Phoenix		MBK 3/E-Z	2.5 (0.0039)	275 V	11	28	9	31	9	42	9	36
	Wago		TOPJOB S 2002	2.5 (0.0039)	550 V	11	20	9	23	9	34	9	31
	Wago		TOPJOB S 2202	2.5 (0.0039)	550 V	11	23	10	21	10	30	9	33
4	Weidmuller		WDU4	4 (0.0062)	690 V	17	19	15	18	14	28	13	28
	Weidmuller		ZDU4	4 (0.0062)	550 V	15	17	13	18	12	31	12	28
	Phoenix		UT4	4 (0.0062)	690 V	16	22	14	21	13	33	12	34
6	Weidmuller		WDU6	6 (0.0093)	690 V	22	17	19	17	18	25	17	25
	Weidmuller		ZDU6	6 (0.0093)	550 V	21	12	18	13	17	22	16	22
	Phoenix		UT6	6 (0.0093)	690 V	21	19	18	19	18	25	17	25
10	Weidmuller		WDU10	10 (0.0155)	690 V	30	14	26	14	26	19	24	20
	Weidmuller		ZDU10	10 (0.0155)	690 V	27	11	23	12	23	19	21	21
	Phoenix		UT10	10 (0.0155)	690 V	29	15	25	15	24	23	23	22
16	Weidmuller		WDU16	16 (0.0248)	690 V	41	11	35	11	34	17	32	17
	Phoenix		UT16	16 (0.0248)	690 V	39	12	34	12	33	18	31	18
	Weidmuller		ZDU16	16 (0.0248)	690 V	36	21	31	19	31	25	29	24
35	Weidmuller		WDU35	35 (0.0543)	690 V	62	8	54	9	52	14	49	14
	Weidmuller		ZDU35	35 (0.0543)	690 V	59	6	51	7	50	11	47	12
	Phoenix		UT35	35 (0.0543)	690 V	66	9	57	9	56	13	52	14
50	Weidmuller		WDU50N	50 (0.0775)	690 V	68	7	59	8	57	13	54	14
70	Weidmuller		WDU70N	70 (0.1085)	690 V	99	4	86	4	84	7	79	8
120	Weidmuller		WDU95N/120N	95 (0.1473)	880 V	119	3	103	4	101	6	95	7

Enclosures and Junction Boxes

① cCSAus certification available on special request only. Contact your local sales representative for more information.

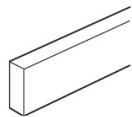
ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Solid Copper Bar — Available in 1 Meter Length Pieces

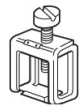
Enclosure Catalog Number	Horizontal Bar Length – mm	Vertical Bar Length – mm	Catalog Number
Dimensions 10 x 3 mm (0.39 x 0.12 in), length is 1 meter (3.28 ft)			CB1M
JBEP1717090	128 (5.04)	90 (3.54)	
JBEP2021100	195 (3.74)	97 (3.82)	
JBEP2021150	195 (3.74)	97 (3.82)	
JBEP2532150	300 (11.81)	230 (9.06)	
JBEP3225150	230 (9.06)	300 (11.81)	
JBEP3250150	480 (18.90)	305 (12.01)	
JBEP3250230	480 (18.90)	305 (12.01)	
JBEP3275150	730 (28.74)	300 (11.81)	
JBEP3275230	730 (28.74)	300 (11.81)	
JBEP5032150	305 (12.01)	480 (18.90)	
JBEP5032230	305 (12.01)	480 (18.90)	
JBEP7532150	300 (11.81)	730 (28.74)	
JBEP7532230	300 (11.81)	730 (28.74)	



Enclosures and Junction Boxes

Cable Clamp for Copper Bar — Pack of 10 — 10 x 3 mm (0.394" x 0.118")

Flexible	Solid	Catalog Number
0.5 to 4 mm ² (20AWG-10AWG)	6 mm ² (10AWG)	CC6MM
2.5 to 16 mm ² (14AWG-4AWG)	16 mm ² (4AWG)	CC16MM
16 to 35 mm ² (6AWG-1AWG)	50 mm ² (1/0)	CC50MM



Spacer for Copper Bar — Supplied with Mounting Inserts

Description	Height - mm (in)	Catalog Number
Insulated	50 (1.97)	JBEP CBI
Non-Insulated	50 (1.97)	JBEP CBNI



Mounting Pan — Solid Galvanized Steel — Supplied with Screws

Enclosure Catalog Number	Dimensions - mm (in) Height x Width x Thickness	Catalog Number
JBEP121209S0	100 x 80 x 1 (3.94 x 3.15 x 0.04)	JBEP1008
JBEP0808060	46 x 75 x 1 (1.81 x 2.95 x 0.04)	JBEP0407
JBEP1717090	152 x 150 x 1 (5.98 x 5.91 x 0.04)	JBEP1515
JBEP2021100, JBEP2021150	185 x 170 x 1.5 (7.28 x 6.69 x 0.06)	JBEP1518
JBEP3225150, JBEP2532150	260 x 230 x 2 (10.2 x 9.06 x 0.08)	JBEP2623
JBEP3250150, JBEP3250230, JBEP5032150, JBEP5032230	480 x 260 x 2 (18.90 x 10.24 x 0.08)	JBEP4826
JBEP3275150, JBEP3275230, JBEP7532150, JBEP7532230	730 x 260 x 2 (28.74 x 10.24 x 0.08)	JBEP7326



① cCSAus certification available on special request only. Contact your local sales representative for more information.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Mounting Screws — Self Tapping — Used for Mounting DIN Rails and Mounting Pan — Pack of 50

Description	Catalog Number
 Sheet metal screw with a drill point and a Phillips pan head	JBEPMS8

Earth Continuity Brass Plate — Thickness: 3.00 mm (0.12 in)

Enclosure Catalog Number	Side - mm (in)	Catalog Number	Bottom - mm (in)	Catalog Number
JBEP121209S0	58 x 44 (2.28 x 1.73)	JBEP02S	72 x 44 (2.83 x 1.73)	JBEP02B
JBEP1717090	105 x 65 (4.13 x 2.55)	JBEP05S	127 x 65 (5.00 x 2.56)	JBEP05B
JBEP2021100	105 x 65 (4.13 x 2.56)	JBEP06S	150 x 65 (5.90 x 2.56)	JBEP06B
JBEP2021150	105 x 105 (4.13 x 4.13)	JBEP07S	150 x 105 (5.90 x 4.13)	JBEP07B
JBEP2532150	150 x 116 (5.90 x 4.56)	JBEP08S	250 x 116 (9.84 x 4.57)	JBEP08B
JBEP3225150	250 x 116 (9.84 x 4.56)	JBEP10S	150 x 116 (5.91 x 4.57)	JBEP10B
JBEP3250150	250 x 116 (9.84 x 4.56)	JBEP11S	180 x 116 (7.09 x 4.57)	JBEP11B
JBEP3250230	250 x 196 (9.84 x 7.71)	JBEP16S	180 x 196 (7.09 x 7.72)	JBEP16B
JBEP3275150	250 x 116 (9.84 x 4.56)	JBEP12S	305 x 116 (12.00 x 4.57)	JBEP12B
JBEP3275230	250 x 196 (9.84 x 7.71)	JBEP17S	305 x 196 (12.00 x 7.72)	JBEP17B
JBEP5032150	180 x 116 (7.08 x 4.56)	JBEP09S	250 x 116 (9.84 x 4.57)	JBEP09B
JBEP5032230	180 x 196 (7.08 x 7.71)	JBEP13S	250 x 196 (9.84 x 7.72)	JBEP13B
JBEP7532150	305 x 116 (12.0 x 4.56)	JBEP14S	250 x 116 (9.84 x 4.57)	JBEP14B
JBEP7532230	305 x 196 (12.0 x 7.71)	JBEP15S	250 x 196 (9.84 x 7.72)	JBEP15B



Enclosures and Junction Boxes

① cCSAus certification available on special request only. Contact your local sales representative for more information.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

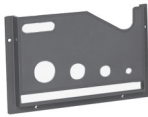
Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①


ATEX/IECEx: Zones 1 and 2 – 21 and 22

Notable: INMETRO Certified


Self Adhesive Pocket for Drawings — Set of 5, A4 Size

	External Dimensions - mm (in)	Internal Dimensions - mm (in)	Catalog Number
	260 x 165 (10 x 6)	230 x 130 x 18 (9 x 5 x 1)	JBEPSAP
	Set of 5 — Self adhesive plastic protective sleeve, Size A4.		JBEPSAPS

Laminated Plastic Nameplate for Engraving ②

	Description	Size - mm (in)	Catalog Number
	White color with black lettering, two (2) mounting rivets included	65 x 18 (2.56 x 0.709)	NPW
	Yellow color with black lettering, two (2) mounting rivets included	65 x 18 (2.56 x 0.709)	NPY

Feed-Thru Earth/Ground Terminal

	Description	Size	Catalog Number
	Stainless steel, complete with gasket washer, lock washers, nuts for internal and external cable connections	M8	JBEPET
	Set of 10 — Press fit, brass expansion insert	M5	JBPEXI

① cCSAus certification available on special request only. Contact your local sales representative for more information.

② Due to the size of JBEP0808060, optional Laminated Plastic Nameplate for Engraving is not recommended for this enclosure.

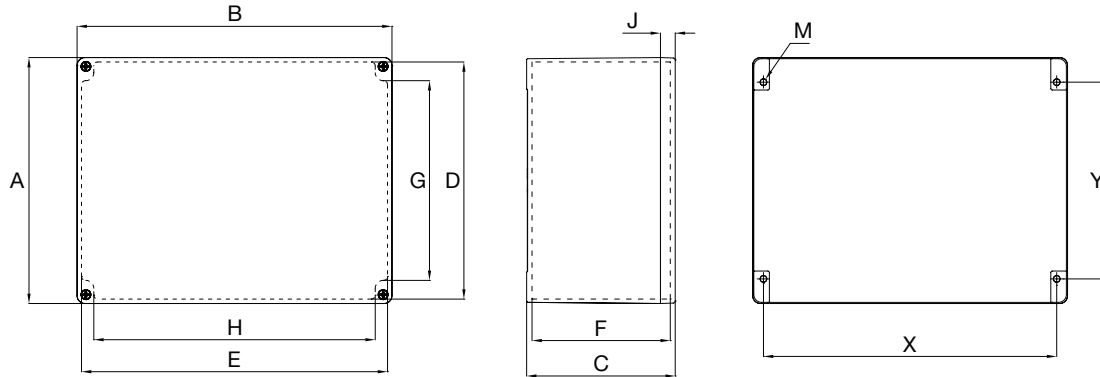
The 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) dimensions do not allow for mounting space beyond the factory adhered product label.

ATX™ JBEP Series Undrilled and Pre-Drilled, FRP Empty Junction Boxes

Increased Safety

NEC/CEC: Class I, Zone 1, AEx e IIC, T5 or T6 | Ex e IIC, T5 or T6 | IP66 ①
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches) ②



Enclosure Catalog Number	External Dimension			Internal Dimensions				Cover	Body Thickness	Wall Fixing		M ③	
	A	B	C	D	E	F	G			H	J		X
JBEP0808060	85 (3.346)	85 (3.346)	61 (2.402)	76.7 (3.020)	76.7 (3.020)	47 (1.850)	41 (1.614)	51 (2.008)	15 (0.591)	3.5 (0.138)	69 (2.717)	49 (1.929)	M4
JBEP121209S0	120 (4.724)	120 (4.724)	91 (3.583)	109.5 (4.311)	109.5 (4.311)	75 (2.953)	63 (4.528)	85 (3.346)	15 (0.591)	4.5 (0.177)	103 (4.055)	83 (3.268)	M5
JBEP1717090	170 (6.693)	170 (6.693)	91 (3.583)	158.5 (6.240)	158.5 (6.240)	72 (2.835)	112.5 (4.429)	137 (5.394)	15 (0.591)	4.5 (0.177)	153 (6.024)	131 (5.157)	M5
JBEP2021100	200 (7.874)	215 (8.465)	95 (3.740)	185.8 (7.315)	200.8 (7.906)	76 (2.992)	116 (4.567)	159 (6.260)	20 (0.787)	6.1 (0.240)	189 (7.441)	146 (5.748)	M6
JBEP2021150	200 (7.874)	215 (8.465)	145 (5.709)	185.8 (7.315)	200.8 (7.906)	122.5 (4.823)	114.8 (4.519)	159 (6.260)	20 (0.787)	6.1 (0.240)	189 (7.441)	146 (5.748)	M6
JBEP2532150	250 (9.843)	320 (12.598)	150 (5.906)	241 (9.488)	311 (12.244)	133.5 (5.256)	171 (6.732)	267 (10.512)	15 (0.591)	5 (0.197)	200 (7.874)	298 (11.732)	M6
JBEP3225150	320 (12.598)	250 (9.843)	150 (5.906)	311 (12.244)	241 (9.488)	133.5 (5.256)	267 (10.512)	171 (6.732)	15 (0.591)	5 (0.197)	298 (11.732)	200 (7.874)	M6
JBEP3250150	320 (12.598)	500 (19.685)	150 (5.906)	311 (12.244)	491 (19.331)	133.5 (5.256)	267 (10.512)	421 (16.575)	15 (0.591)	5 (0.197)	298 (11.732)	447 (17.598)	M6
JBEP3250230	320 (12.598)	500 (19.685)	230 (9.055)	311 (12.244)	491 (19.331)	213.5 (8.406)	267 (10.512)	421 (16.575)	15 (0.591)	5 (0.197)	298 (11.732)	447 (17.598)	M6
JBEP3275150	320 (12.598)	750 (29.528)	150 (5.906)	311 (12.244)	741 (29.173)	133.5 (5.256)	267 (10.512)	671 (26.417)	15 (0.591)	5 (0.197)	298 (11.732)	698 (27.480)	M6
JBEP3275230	320 (12.598)	750 (29.528)	230 (9.055)	311 (12.244)	741 (29.173)	213.5 (8.406)	267 (10.512)	671 (26.417)	15 (0.591)	5 (0.197)	298 (11.732)	698 (27.480)	M6
JBEP5032150	500 (19.685)	320 (12.598)	150 (5.906)	491 (19.331)	311 (12.244)	133.5 (5.256)	421 (16.575)	267 (10.512)	15 (0.591)	5 (0.197)	447 (17.598)	298 (11.732)	M6
JBEP5032230	500 (19.685)	320 (12.598)	230 (9.055)	491 (19.331)	311 (12.244)	213.5 (8.406)	421 (16.575)	267 (10.512)	15 (0.591)	5 (0.197)	447 (17.598)	298 (11.732)	M6
JBEP7532150	750 (29.528)	320 (12.598)	150 (5.906)	741 (29.173)	311 (12.244)	133.5 (5.256)	671 (26.417)	267 (10.512)	15 (0.591)	5 (0.197)	298 (11.732)	698 (27.480)	M6
JBEP7532230	750 (29.528)	320 (12.598)	230 (9.055)	741 (29.173)	311 (12.244)	213.5 (8.406)	671 (26.417)	267 (10.512)	15 (0.591)	5 (0.197)	698 (27.480)	298 (11.732)	M6

① cCSAus certification available on special request only. Contact your local sales representative for more information.

② Wall fixing screw diameter 5 mm (0.20"). Wall fixing screw hole 6 mm (0.24").

③ Screw to be used for mounting box.

ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- Instrumentation junction boxes are used to run process or remote information to control room.
- For use in intrinsic safety or non intrinsic safety systems.
- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammables dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities

Features

- Available in a wide range of sizes:
 - For armored or unarmored cable with appropriate ATEX/IECEX certified cable glands
 - For use with a variety of connection and earth terminals
- Terminal blocks on DIN rail.

Standard materials

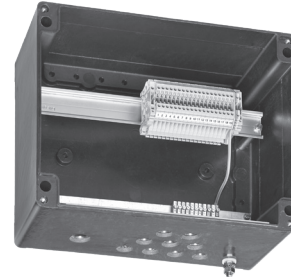
- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel
- Gasket: silicon

Options

- Removable gland plates
- Nameplates
- Mounting pan
- Inside pocket for document
- Consult factory for custom drilling, assembly requirements and other ambient temperatures

ATEX/IECEX Certifications and Compliances

- Certification Type: JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2G
 - Conforming to IECEX : EPL Gb
 - Type of Protection: Ex eb IIC
 - Temperature Class: T6 ①
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2D
 - Conforming to IECEX: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature : T68 °C (T154.4 °F)
- Ambient Temperature: -60 °C à +55°C (-76 °F à +131 °F)
- ATEX Certificate: LCIE 12 ATEX 3037X
- IECEX Certificate: IECEX LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66



Cable Glands are available as an Option.

INMETRO Certifications

- INMETRO Certificate: BVC13.3238-X

Related Products

- For information on the full range of ATEX/IECEX certified cable entries for use with armored and unarmored cable, refer to Cable Glands section.

① For different temperature classes and ambient temperatures consult your local representative.

ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

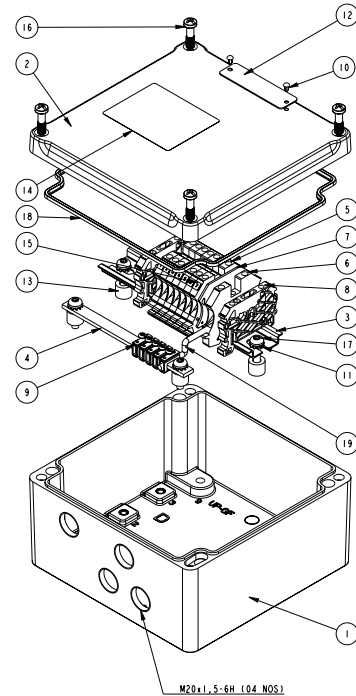
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Illustrated Features — Sample of JBEP171709NI01

Description

- 1 Body of Polyester Box 170 x 170 x 90 mm (6.69 x 6.69 x 3.54 in)
- 2 Cover of Polyester Box 170 x 170 x 91 mm (6.69 x 6.69 x 3.58 in)
- 3 Din Rail
- 4 Copper Bar 10 x 3 mm (0.39 x 0.12 in)
- 5 Terminal Block - ATEX/IECEX: WDU 2.5
- 6 Terminal Block - ATEX/IECEX: WPE 2.5
- 7 Plate - ATEX/IECEX: WAP 2.5/10
- 8 End Bracket
- 9 Cable Clamp 2.5 mm² (14AWG)- Capacity
- 10 Stainless Steel Rivet 2.5 x 5 mm (0.10 x 0.20 in)
- 11 Serrated Washer 5
- 12 Label Gravoply - Yellow
- 13 Nylons Spacer Lg. 10 mm (0.39 in)
- 14 Label 54 x 68 mm (2.13 x 2.68 in)
- 15 Terminal Marker
- 16 Screw M6 x 20 x 10 mm (M6 x 0.79 x 0.39)
- 17 Screw M5 x 20 (M5 x 0.79)
- 18 Gasket for Polyester Box 170 x 170 x 91 mm (6.69 x 6.69 x 3.58 in)
- 19 G/Y Cable 2.5 mm² (14AWG)



Enclosures and Junction Boxes

The Catalog Numbering Guide is a reference tool to explain the make-up of the catalog number. It is not to be used to create a custom product for ordering.

Catalog Numbering Guide - JBEP Polyester Junction Boxes for Instrumentation Applications

JBE Series: JBE - ATEX/IECEX Certified Junction Box	P Material: P - Polyester	17 Height Dimensions mm (in): 17 - 170 (6.69) 20 - 200 (7.87) 25 - 250 (9.84) 32 - 320 (12.60)	17 Width Dimensions mm (in): 17 - 170 (6.69) 21 - 215 (8.47) 32 - 320 (12.60) 50 - 500 (19.69)	09 Depth Dimensions mm (in): 09 - 91 (3.58) 15 - 150 (5.91)	A Cable Type: A - Armored N - Non-Armored L - Armored Lead Sheathed	I Type: I - Instrumentation	01 Suffix: 01 to 99 <i>Assigned at Factory</i>	D Options: D - Drain
---	---	--	--	---	--	---	---	--

ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

JBEP junction box models are certified for use in instrumentation applications only with WDU type section 2.5 mm² terminals. The quantity of terminals permitted depends on dissipated power as per JBEP model, All JBEP models have maximum of 275 Volts and 3 Amps (current).

T6 +55 °C (+131 °F)

Model	Enclosure Catalog Number	Maximum Voltage	WDU 2.5 mm ² Terminal Quantity	Maximum Current	Dissipated Power	Dust T°	Branching Point
JBEP3	JBEP171709XXXX	275 V	7	3	0.60 W		
		275 V	12	3	1.20 W		
		275 V	14	3	1.40 W		
JBEP5	JBEP202115XXXX	275 V	15	3	1.50 W		
		275 V	21	3	2.20 W		
		275 V	22	3	2.30 W		
JBEP6	JBEP253215XXXX	275 V	19	3	1.80 W		
		275 V	24	3	3.30 W	+68 °C (154.4 °F)	+74 °C (165.2 °F)
		275 V	25	3	3.40 W		
		275 V	27	3	3.70 W		
		275 V	36	3	4.90 W		
		275 V	37	3	5.00 W		
		275 V	38	3	5.20 W		
275 V	39	3	5.30 W				
JBEP7	JBEP325015XXXX	275 V	54	3	10.30 W		
		275 V	55	3	10.50 W		

Enclosures and Junction Boxes

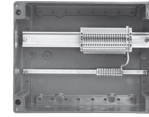
ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Terminals for Instrumentation Applications with Unarmored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields.
 Yellow laminated plastic label with black lettering. M16 to M32 threaded entries. M40 to M50 clearance holes.
 Cable glands and plugs ordered separately.



For Cable	Terminal Block	Earth Terminal	Copper Bar	Cable Clamp	Multi-Cable Cable	Single Cable	Catalog
U1000	0.5/2.5 mm ² Qty.	0.5/2.5 mm ² Qty.	10 x 3 mm Qty.	0.5/2.5 mm ² Qty.	Entry Qty. 1	Entries	Number ①
RO2V						M20 Qty.	
07G1.5	7	1	1	5	M20	3	JBEP171709NI01
12G1.5	12	1	1	8	M25	6	JBEP202115NI02
19G1.5	19	1	1	11	M25	9	JBEP253215NI03
24G1.5	24	1	1	14	M32	12	JBEP253215NI04
27G1.5	27	1	1	15	M32	13	JBEP253215NI05
37G1.5	37	1	1	20	M32	18	JBEP253215NI06
07G2.5	7	1	1	5	M20	3	JBEP171709NI07
12G2.5	12	1	1	8	M25	6	JBEP202115NI08
19G2.5	19	1	1	11	M32	9	JBEP253215NI09
24G2.5	24	1	1	14	M32	12	JBEP253215NI10
27G2.5	27	1	1	15	M32	13	JBEP253215NI11
37G2.5	37	1	1	20	M40	18	JBEP253215NI12

For Cable	Terminal Block	Continuity	Multi-Cable Cable	Single Cable	Catalog
EGSF	0.5/2.5 mm ² Qty.	Shield Qty.	Entry Qty. 1	Entries	Number ①
				M16 Qty.	
07IP05	14	7	M20	7	JBEP202115NI21
07IT05	21	7	M20	7	JBEP202115NI22
12IP05	24	12	M25	12	JBEP253215NI23
12IT05	36	12	M25	12	JBEP253215NI24
19IP05	38	19	M32	19	JBEP253215NI25
27IP05	54	27	M32	27	JBEP325015NI26
07IP09	14	7	M25	7	JBEP202115NI27
07IT09	21	7	M25	7	JBEP202115NI28
12IP09	24	12	M32	12	JBEP253215NI29
12IT09	36	12	M32	12	JBEP253215NI30
19IP09	38	19	M32	19	JBEP253215NI31
27IP09	54	27	M32	27	JBEP325015NI32

For Cable	Terminal Block	Continuity	Multi-Cable Cable	Single Cable	Catalog
EISF	0.5/2.5 mm ² Qty.	Shield Qty.	Entry Qty. 1	Entries	Number ①
				M16 Qty.	
07IP05	15	8	M25	7	JBEP202115NI41
07IT05	22	8	M32	7	JBEP202115NI42
12IP05	25	13	M32	12	JBEP253215NI43
12IT05	37	13	M32	12	JBEP253215NI44
19IP05	39	20	M40	19	JBEP253215NI45
27IP05	55	28	M40	27	JBEP325015NI46
07IP09	15	8	M32	7	JBEP202115NI47
07IT09	22	8	M32	7	JBEP202115NI48
12IP09	25	13	M40	12	JBEP253215NI49
12IT09	37	13	M40	12	JBEP253215NI50
19IP09	39	20	M50	19	JBEP253215NI51
27IP09	55	28	M50	27	JBEP325015NI52

① For JBEP terminal junction box with a drain, add suffix D to the end of the catalog number; example: JBEP171709NI01D.

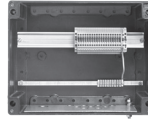
ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Terminals for Instrumentation Applications with Armored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields.
 Yellow laminated plastic label with black lettering. Earth continuity brass plate. M8 external earth crossing terminal.
 M20 to M32 threaded entries. M40 to M50 clearance holes. Cable glands and plugs ordered separately.



Armored Cables

Enclosures and Junction Boxes

For Cable	Terminal Block	Earth Terminal	Copper Bar	Cable Clamp	Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
U1000 RVFV	0.5/2.5 mm ² Qty.	0.5/2.5 mm ² Qty.	10 x 3 mm Qty.	0.5/2.5 mm ² Qty.			
07G1.5	7	1	1	5	M20	3	JBEP171709AI01
12G1.5	12	1	1	8	M20	6	JBEP202115AI02
19G1.5	19	1	1	11	M25	9	JBEP253215AI03
24G1.5	24	1	1	14	M25	12	JBEP253215AI04
27G1.5	27	1	1	15	M25	13	JBEP253215AI05
37G1.5	37	1	1	20	M32	18	JBEP253215AI06
07G2.5	7	1	1	5	M20	3	JBEP171709AI07
12G2.5	12	1	1	8	M25	6	JBEP202115AI08
19G2.5	19	1	1	11	M25	9	JBEP253215AI09
24G2.5	24	1	1	14	M32	12	JBEP253215AI10
27G2.5	27	1	1	15	M32	13	JBEP253215AI11
37G2.5	37	1	1	20	M32	18	JBEP253215AI12
For Cable	Terminal Block	Continuity Shield Qty.			Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
EGFA	0.5/2.5 mm ² Qty.						
07IP05	14	7			M20	7	JBEP202115AI21
07IT05	21	7			M20	7	JBEP202115AI22
12IP05	24	12			M25	12	JBEP253215AI23
12IT05	36	12			M25	12	JBEP253215AI24
19IP05	38	19			M25	19	JBEP253215AI25
27IP05	54	27			M32	27	JBEP325015AI26
07IP09	14	7			M25	7	JBEP202115AI27
07IT09	21	7			M25	7	JBEP202115AI28
12IP09	24	12			M25	12	JBEP253215AI29
12IT09	36	12			M32	12	JBEP253215AI30
19IP09	38	19			M32	19	JBEP253215AI31
27IP09	54	27			M40	27	JBEP325015AI32
For Cable	Terminal Block	Continuity Shield Qty.			Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
EIFA	0.5/2.5 mm ² Qty.						
07IP05	15	8			M25	7	JBEP202115AI41
07IT05	22	8			M25	7	JBEP202115AI42
12IP05	25	13			M32	12	JBEP253215AI43
12IT05	37	13			M32	12	JBEP253215AI44
19IP05	39	20			M32	19	JBEP253215AI45
27IP05	55	28			M40	27	JBEP325015AI46
07IP09	15	8			M32	7	JBEP202115AI47
07IT09	22	8			M32	7	JBEP202115AI48
12IP09	25	13			M40	12	JBEP253215AI49
12IT09	37	13			M40	12	JBEP253215AI50
19IP09	39	20			M40	19	JBEP253215AI51
27IP09	55	28			M50	27	JBEP325015AI52

① For JBEP terminal junction box with a drain, add suffix D to the end of the catalog number; example: JBEP171709NI01D.

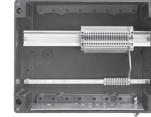
ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Terminals for Instrumentation Applications with Lead Sheath Armored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields. Yellow laminated plastic label with black lettering. Earth continuity brass plate. M8 external earth crossing terminal. M20 to M32 threaded entries. M40 to M50 clearance holes. Cable glands and plugs ordered separately.



For Cable U1000 RGPFV	Terminal Block 0.5/2.5 mm ² Qty.	Earth Terminal 0.5/2.5 mm ² Qty.	Copper Bar 10 x 3 mm Qty.	Cable Clamp 0.5/2.5 mm ² Qty.	Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
07G1.5	7	1	1	5	M20	3	JBEP171709LI01
12G1.5	12	1	1	8	M25	6	JBEP202115LI02
19G1.5	19	1	1	11	M25	9	JBEP253215LI03
24G1.5	24	1	1	14	M32	12	JBEP253215LI04
27G1.5	27	1	1	15	M32	13	JBEP253215LI05
37G1.5	37	1	1	20	M32	18	JBEP253215LI06
07G2.5	7	1	1	5	M20	3	JBEP171709LI07
12G2.5	12	1	1	8	M25	6	JBEP202115LI08
19G2.5	19	1	1	11	M32	9	JBEP253215LI09
24G2.5	24	1	1	14	M32	12	JBEP253215LI10
27G2.5	27	1	1	15	M32	13	JBEP253215LI11
37G2.5	37	1	1	20	M40	18	JBEP253215LI12
For Cable EGPF	Terminal Block 0.5/2.5 mm ² Qty.	Continuity Shield Qty.			Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
07IP05	14	7			M20	7	JBEP202115LI21
07IT05	21	7			M20	7	JBEP202115LI22
12IP05	24	12			M25	12	JBEP253215LI23
12IT05	36	12			M25	12	JBEP253215LI24
19IP05	38	19			M25	19	JBEP253215LI25
27IP05	54	27			M32	27	JBEP325015LI26
07IP09	14	7			M25	7	JBEP202115LI27
07IT09	21	7			M25	7	JBEP202115LI28
12IP09	24	12			M32	12	JBEP253215LI29
12IT09	36	12			M32	12	JBEP253215LI30
19IP09	38	19			M40	19	JBEP253215LI31
27IP09	54	27			M40	27	JBEP325015LI32
For Cable EIPF	Terminal Block 0.5/2.5 mm ² Qty.	Continuity Shield Qty.			Multi-Cable Cable Entry Qty. 1	Single Cable Entries M20 Qty.	Catalog Number ①
07IP05	15	8			M25	7	JBEP202115LI41
07IT05	22	8			M32	7	JBEP202115LI42
12IP05	25	13			M32	12	JBEP253215LI43
12IT05	37	13			M32	12	JBEP253215LI44
19IP05	39	20			M40	19	JBEP253215LI45
27IP05	55	28			M50	27	JBEP325015LI46
07IP09	15	8			M32	7	JBEP202115LI47
07IT09	22	8			M32	7	JBEP202115LI48
12IP09	25	13			M40	12	JBEP253215LI49
12IT09	37	13			M40	12	JBEP253215LI50
19IP09	39	20			M50	19	JBEP253215LI51
27IP09	55	28			M50	27	JBEP325015LI52

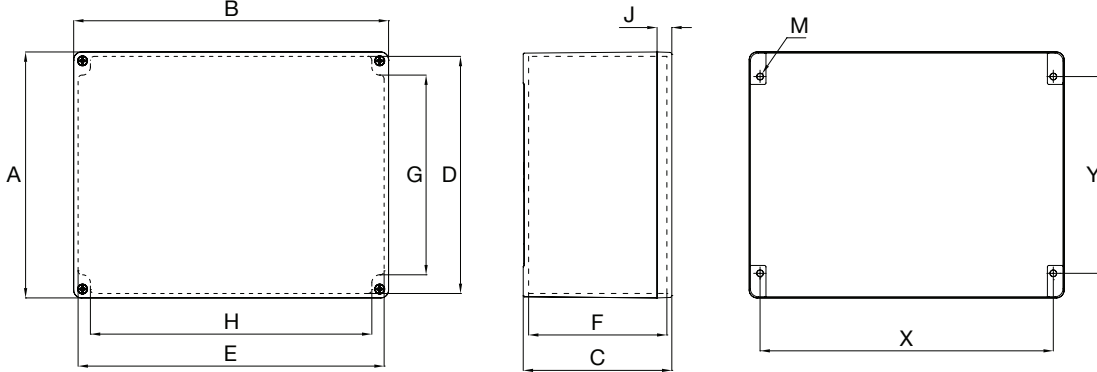
① For JBEP terminal junction box with a drain, add suffix D to the end of the catalog number; example: JBEP171709NI01D.

ATX™ JBEP Series FRP Terminal Junction Boxes for Instrumentation Applications

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches) ①



Enclosure Catalog Number	External Dimension		Internal Dimensions				Cover	Body Thickness	Wall Fixing		M ②		
	A	B	C	D	E	F			G	H		X	Y
JBEP1717090	170 (6.693)	170 (6.693)	91 (3.583)	158.5 (6.240)	158.5 (6.240)	72 (2.835)	112.5 (4.429)	137 (5.394)	15 (0.591)	4.5 (0.177)	153 (6.024)	131 (5.157)	M5
JBEP2021150	200 (7.874)	215 (8.465)	145 (5.709)	185.8 (7.315)	200.8 (7.906)	122.5 (4.823)	114.8 (4.519)	159 (6.260)	20 (0.787)	6.1 (0.240)	189 (7.441)	146 (5.748)	M6
JBEP2532150	250 (9.843)	320 (12.598)	150 (5.906)	241 (9.488)	311 (12.244)	133.5 (5.256)	171 (6.732)	267 (10.512)	15 (0.591)	5 (0.197)	200 (7.874)	298 (11.732)	M6
JBEP3250150	320 (12.598)	500 (19.685)	150 (5.906)	311 (12.244)	491 (19.331)	133.5 (5.256)	267 (10.512)	421 (16.575)	15 (0.591)	5 (0.197)	298 (11.732)	447 (17.598)	M6

① Wall fixing screw diameter 5 mm (0.20"). Wall fixing screw hole 6 mm (0.24").

② Screw to be used for mounting box.

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- Electrical junction boxes are used to distribute power to lighting and to other power and control circuits.
- Power junction boxes are used to connect cables together to supply main lighting circuits, motors, service receptacles and other equipment.
- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammable dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities



Cable glands are available as an option.

Features

- Available in multiple terminal configurations.
- Supplied with terminals Size 2.5 mm² (14AWG) through 120 mm² (250MCM).

Standard materials

- Enclosures: Static resistant carbon filled fiberglass reinforced polyester (FRP)
- Hardware: stainless steel

Options

- Nameplates
- Mounting pan
- Inside pocket for document
- Consult factory for custom drilling, assembly requirements and other ambient temperatures.

ATEX/IECEX Certifications and Compliances ①

- Certification Type: JBEP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2G
 - Conforming to IECEX: EPL Gb
 - Type of Protection: Ex eb IIC / Ex eb ia IIC / Ex eb ib IIC / Ex ia ou ib IIC Gb
 - Temperature Class: T6 for Ta -60 °C (-76 °F) +55 °C (+131 °F)
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2D
 - Conforming to IECEX: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature : T75 °C (T167 °F) for Ta ≤ +55 °C (+131 °F)
- Ambient Temperatures: -60 °C ≤ Ta ≤ +55 °C (-76 °F ≤ Ta ≤ +131 °F)
- ATEX Certificate : LCIE 12 ATEX 3037X
- EC Declaration of Conformity : 50291
- IECEX Certificate : IECEX LCIE 13.0003X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

INMETRO Certifications

- INMETRO Certificate: BVC 13.3238-X

① The ambient temperature for complete assembly is equal to the lowest ambient temperature of the components used.

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

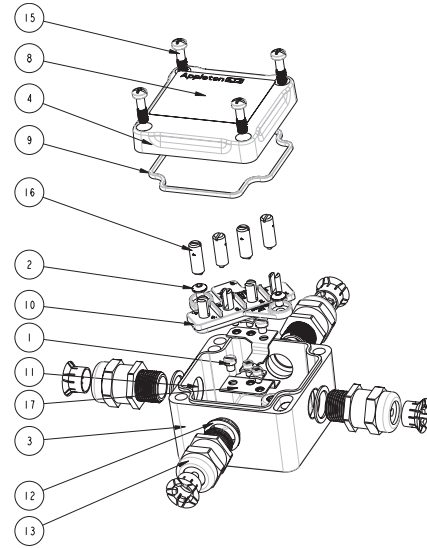
ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Enclosures and Junction Boxes

Illustrated Features — Sample of JBEP080806NE04T

Description

- | |
|---|
| <ul style="list-style-type: none"> 1 Screw M5 x 6 mm (M5 x 0.24 in) 2 JBEP0808060 - Base Holes: 3 x Ø 20.5 mm (3 x Ø 0.81 in) 3 Cover Of Polyester Box Type 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) 4 Hood Terminals Compact Set 8 Nameplate 9 Gasket Box Type 85 x 85 x 60 mm (3.35 x 3.35 x 2.36 in) 10 Compact set of well connection terminals. Screw M4 x 7 mm (M4 x 0.28 in) 11 Entry Thread Seal M20 12 Nickel-Plated Brass Locknuts M20 x 1.5 mm (M20 x 0.06 in) 13 EEx e M20 Cable Gland 15 Cover Screw M6 x 20 x 10 mm (M6 x 0.79 x 100.39 in) 16 Hood Term Cover 17 Earth Plate |
|---|



The Catalog Numbering Guide is a reference tool to explain the make-up of the catalog number. It is not to be used to create a custom product for ordering.

Catalog Numbering Guide - JBEP Polyester Junction Boxes for Electrical and Power Applications

<p>JBE</p> <p>Series: JBE - NEC/CEC and ATEX/ IECEX Certified Junction Box</p>	<p>P</p> <p>Material: P - Polyester</p>	<p>08</p> <p>Height Dimensions mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 20 - 200 (7.87) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>08</p> <p>Width Dimensions mm (in): 08 - 85 (3.35) 12 - 120 (4.72) 17 - 170 (6.69) 21 - 215 (8.47) 25 - 250 (9.84) 32 - 320 (12.60) 50 - 500 (19.69) 75 - 750 (29.53)</p>	<p>06</p> <p>Depth Dimensions mm (in): 06 - 60 (2.36) 09 - 91 (3.58) 10 - 95 (3.74) 15 - 150 (5.91) 23 - 230 (9.06)</p>	<p>A</p> <p>Cable Type: A - Armored N - Non-Armored</p>	<p>E</p> <p>Options: <i>(Options must be listed alphabetically)</i> E - Electrical: 2.5 mm² (14AWG) x 10 mm² (6AWG) P - Power: 16 mm² (6AWG) to 240 mm² (474MCM)</p>	<p>01</p> <p>Suffix: 01 to 99 <i>Assigned at Factory</i></p>	<p>T</p> <p>Other Suffix: T - Mantle Clamping (Pillar Terminals)</p>
--	---	---	--	--	--	---	---	---

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP080806NE04T

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with 4 Live Mantle Clamping (Pillar Terminals) and 1 Earth Terminal Per Way

Maximum capacity per terminal:

- 4 x 2.5 mm² or 2 x 4 mm² + 2 x 2.5 mm², 550 Volts

Maximum capacity per earth terminal:

- 1 x 4 mm²

Rating (Amps):

- 22 Amps maximum for 4 mm²

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Catalog Number
JBEP0808060	3 x M20 with earth continuity sheet		0.42 (0.93)	0.44 (26.9)	85 x 85 x 61 (3.35 x 3.35 x 2.40)	JBEP080806AE03T
JBEP0808060	3 x M20 with three cable glands for unarmored cable Diameter 6.5 to 14.5 mm (0.26 to 0.57 in)		0.45 (0.99)	0.44 (26.9)	85 x 85 x 61 (3.35 x 3.35 x 2.40)	JBEP080806NE03T
JBEP0808060	4 x M20 with earth continuity sheet		0.43 (0.95)	0.44 (26.9)	85 x 85 x 61 (3.35 x 3.35 x 2.40)	JBEP080806AE04T
JBEP0808060	4 x M20 with four cable glands for unarmored cable Diameter 6.5 to 14.5 mm (0.26 to 0.57 in)		0.48 (1.06)	0.44 (26.9)	85 x 85 x 61 (3.35 x 3.35 x 2.40)	JBEP080806NE04T

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with 5 Live Mantle Clamping (Pillar Terminals) and 1 Earth Terminal Per Way

Maximum capacity per terminal:

- 3 x 6 mm² or 4 x 4 mm² or 2 x 6 mm² + 2 x 4 mm², 690 Volts

Maximum capacity per earth terminal:

- 1 x 6 mm²

Rating (Amps):

- 27 Amps maximum for 6 mm²

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Catalog Number
JBEP121209S0	3 x M20 with earth continuity sheet		0.85 (1.87)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209AE03T
JBEP121209S0	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in) ②		0.9 (1.98)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209NE13T
JBEP121209S0	4 x M20 with earth continuity sheet		0.88 (1.94)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209AE04T
JBEP121209S0	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in) ②		0.95 (2.09)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209NE14T

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with 8 Live Mantle Clamping (Pillar Terminals) and 1 Earth Terminal Per Way

Maximum capacity per terminal:









- 3 x 6 mm² or 4 x 4 mm² or 2 x 6 mm²+ 2 x 4 mm², 690 Volts

Maximum capacity per earth terminal:

- 1 x 6 mm²

Rating (Amps):

- 24 Amps maximum for 6 mm²

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Catalog Number
JBEP1717090	4 x M20 with earth continuity sheet		1.63 (3.59)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE04T
JBEP1717090	4 x M20 with three cable glands for unarmored cable Diameter 6.5 to 14.5 mm (0.26 to 0.57 in)		1.55 (3.42)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE04T
JBEP1717090	6 x M20 with earth continuity sheet		1.55 (3.42)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE06T
JBEP1717090	6 x M20 with three cable glands for unarmored cable Diameter 6.5 to 14.5 mm (0.26 to 0.57 in)		1.65 (3.64)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE06T
JBEP1717090	4 x M25 with earth continuity sheet		1.62 (3.57)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE14T
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.60 (3.53)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE14T
JBEP1717090	6 x M25 with earth continuity sheet		1.55 (3.42)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE16T
JBEP1717090	6 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.65 (3.64)	8.91 x 108 (54.3)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE16T

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with 4 Screw Terminals and 2 Earth Terminals

• 2 x 6 mm² terminals (WDU6), Rating 22 Amps for 6 mm², 19 Amps for 4 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: P + N (1PE + 2L + 2N + 1PE)						
JBEP121209S0	4 x M20 with earth continuity device		1.00 (2.20)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209AE45
JBEP121209S0	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.00 (2.20)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209NE46
JBEP121209S0	4 x M20 with earth continuity device		0.96 (2.12)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209AE47
JBEP121209S0	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.00 (2.20)	1.31 (80.0)	120 x 120 x 91 (4.72 x 4.72 x 3.58)	JBEP121209NE48

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with 12 Screw Terminals and 3 Earth Terminals

• 2 x 4 mm² terminals (WDU4), Rating 17 Amps for 4 mm², 14 Amps for 2.5 mm², 550 Volts

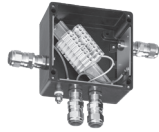
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: TP + N (1PE + 3L1 + 3L2 + 3L3 + 3N + 2PE)						
JBEP1717090	4 x M25 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE46
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE46
JBEP1717090	6 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE47
JBEP1717090	6 x M20 with four cable glands for unarmored cable Diameter 6.5 to 14.5 mm (0.26 to 0.57 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE47
JBEP1717090	6 x M25 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE48
JBEP1717090	6 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE48

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709AE06

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 6 mm² terminals (WDU6) and earth terminals (WPE6), 22 Amps maximum for 6 mm² and 4 mm², 440 Volts

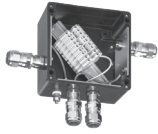
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: P + N (1PE + 2L + 2N + 1PE)						
JBEP1717090	3 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE01
JBEP1717090	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE01
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE02
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE02
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE03
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE03
Configuration: P + N (1PE + 3L + 3N + 2PE)						
JBEP1717090	6 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE04
JBEP1717090	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE04
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 1PE)						
JBEP1717090	3 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE05
JBEP1717090	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE05
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE06
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE06
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE07
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE07

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709AE10

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 6 mm² terminals (WDU6) and earth terminals (WPE6)

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped
						Catalog Number
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 1PE) • 22 Amps maximum for 6 mm ² , 20 Amps maximum for 4 mm ² , 440 Volts						
JBEP1717090	6 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE08
JBEP1717090	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE08
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + 1PE) • 22 Amps maximum for 6 mm ² , 21 Amps maximum for 4 mm ² , 440 Volts						
JBEP1717090	3 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE09
JBEP1717090	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE09
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE10
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE10
JBEP1717090	4 x M20 with earth continuity device		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE11
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.54 (3.40)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE11
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 1PE) • 21 Amps maximum for 6 mm ² , 17 Amps maximum for 6 mm ² , 440 Volts						
JBEP2021100	6 x M20 with earth continuity device		2.04 (4.50)	4.09 (249.28)	200 x 215 x 95 (7.87 x 8.46 x 3.74)	JBEP202110AE12
JBEP2021100	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	4.09 (249.28)	200 x 215 x 95 (7.87 x 8.46 x 3.74)	JBEP202110NE12

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709NE52

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 10 mm² terminals (WDU10) and earth terminals (WPE10), 30 Amps maximum for 10 mm² and 6 mm², 440 Volts

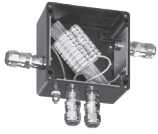
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
						PE L N PE
Configuration: P + N (1PE + 2L + 2N + 1PE)						
JBEP1717090	3 x M20 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE51
JBEP1717090	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE51
JBEP1717090	4 x M20 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE52
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE52
JBEP1717090	4 x M20 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE53
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE53

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709AE57

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 10 mm² terminals (WDU10) and earth terminals (WPE10), 30 Amps maximum for 10 mm² and 6 mm², 440 Volts

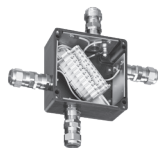
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: P + N (2PE + 3L + 3N + 1PE)						
JBEP1717090	6 x M20 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE54
JBEP1717090	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE54
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 1PE)						
JBEP1717090	3 x M25 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE55
JBEP1717090	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE55
JBEP1717090	4 x M25 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE56
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE56
JBEP1717090	4 x M25 with earth continuity device		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE57
JBEP1717090	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		2.04 (4.50)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE57

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709AE61

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 10 mm² terminals (WDU10) and earth terminals (WPE10), 30 Amps maximum for 10 mm², 24 Amps max for 6 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	PE	
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 1PE)											
JBEP1717090	6 x M25 with earth continuity device		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE58					
JBEP1717090	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE58					

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 10 mm² terminals (WDU10) and earth terminals (WPE10), 30 Amps maximum for 10 mm², 26 Amps max for 6 mm², 440 Volts

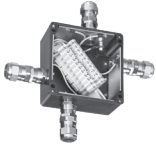
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + 1PE)											
JBEP1717090	3 x M25 with earth continuity device		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE59					
JBEP1717090	3 x M32 with three cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE59					
JBEP1717090	4 x M25 with earth continuity device		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE60					
JBEP1717090	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE60					
JBEP1717090	4 x M25 with earth continuity device		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709AE61					
JBEP1717090	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		1.60 (3.60)	2.63 (160.49)	170 x 170 x 91 (6.69 x 6.69 x 3.58)	JBEP171709NE61					

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP171709AE61

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals and Earth Terminals

- 10 mm² terminals (WDU10) and earth terminals (WPE10), 22 Amps maximum for 10 mm², 17 Amps max for 6 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number	
						PE	N
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 1PE)							
JBEP2021100	6 x M25 with earth continuity device		2.10 (4.60)	4.09 (249.28)	200 x 215 x 95 (7.87 x 8.46 x 3.74)	JBEP202110AE62	
JBEP2021100	6 x M32 with six cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		2.10 (4.60)	4.09 (249.28)	200 x 215 x 95 (7.87 x 8.46 x 3.74)	JBEP202110NE62	

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP202115AP06

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 16 mm² terminals (WDU16) and earth terminals (WPE16), 41 Amps maximum for 16 mm² and 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number				
						PE	L	N	PE	
Configuration: P + N (1PE + 2L + 2N + 2PE)										
JBEP2021150	3 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP01
JBEP2021150	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP01
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP02
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP02
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP03
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP03
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP04
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP04

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 16 mm² terminals (WDU16) and earth terminals (WPE16), 41 Amps maximum for 16 mm² and 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number				
						PE	L1	N	PE	
Configuration: P + N (2PE + 3L + 3N + 2PE)										
JBEP2021150	6 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP05
JBEP2021150	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP05
JBEP2021150	6 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115AP06
JBEP2021150	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)					JBEP202115NP06

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP202115AP12

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 16 mm² terminals (WDU16) and earth terminals (WPE16), 41 Amps maximum for 16 mm² and 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number				
						PE	L1	L2	L3	PE
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 2PE)										
JBEP2021150	3 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP07				
JBEP2021150	3 x M25 with three cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP07				
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP08				
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP08				
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP09				
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP09				
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP10				
JBEP2021150	4 x M25 with four cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP10				

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 16 mm² terminals (WDU16) and earth terminals (WPE16), 41 Amps maximum for 16 mm², 38 Amps maximum for 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number				
						PE	L1	L2	L3	PE
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 2PE)										
JBEP2021150	6 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP11				
JBEP2021150	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP11				
JBEP2021150	6 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP12				
JBEP2021150	6 x M25 with six cable glands for unarmored cable Diameter 8 to 17 mm (0.31 to 0.67 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP12				

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

• 16 mm² terminals (WDU16) and earth terminals (WPE16), 41 Amps maximum for 16 mm², 40 Amps maximum for 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + PE)											
JBEP2021150	3 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP13					
JBEP2021150	3 x M32 with three cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP13					
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP14					
JBEP2021150	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP14					
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP15					
JBEP2021150	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP15					
JBEP2021150	4 x M25 with earth continuity device		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115AP16					
JBEP2021150	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		4.00 (8.80)	6.45 (393.60)	200 x 215 x 145 (7.87 x 8.46 x 5.71)	JBEP202115NP16					

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

• 16 mm² terminals (WDU16) and earth terminals (WPE16), 34 Amps maximum for 16 mm², 28 Amps maximum for 10 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 2PE)											
JBEP2532150	6 x M25 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.94)	JBEP253215AP17					
JBEP2532150	6 x M32 with six cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.94)	JBEP253215NP17					
JBEP2532150	6 x M25 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.94)	JBEP253215AP18					
JBEP2532150	6 x M32 with six cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.94)	JBEP253215NP18					

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP253215NP02

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 35 mm² terminals (WDU35) and earth terminals (WPE35), 54 Amps maximum for 35 mm² and 25 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 2PE)						
JBEP2532150	4 x M32 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 151 (9.84 x 12.60 x 5.94)	JBEP253215AP01
JBEP2532150	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 151 (9.84 x 12.60 x 5.94)	JBEP253215NP01

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 35 mm² terminals (WDU35) and earth terminals (WPE35), 54 Amps maximum for 35 mm², 48 Amps maximum for 25 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 2PE)						
JBEP2532150	6 x M32 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 151 (9.84 x 12.60 x 5.94)	JBEP253215AP02
JBEP2532150	6 x M32 with six cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 151 (9.84 x 12.60 x 5.94)	JBEP253215NP02

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP253215NP04

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 35 mm² terminals (WDU35) and earth terminals (WPE35), 54 Amps maximum for 35 mm², 51 Amps maximum for 25 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + PE)											
JBEP2532150	4 x M32 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.91)	JBEP253215AP03					
JBEP2532150	4 x M32 with four cable glands for unarmored cable Diameter 10 to 25 mm (0.39 to 0.98 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.91)	JBEP253215NP03					

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 35 mm² terminals (WDU35) and earth terminals (WPE35), 47 Amps maximum for 35 mm², 42 Amps maximum for 25 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 2PE)											
JBEP2532150	6 x M32 with earth continuity device		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.91)	JBEP253215AP04					
JBEP2532150	6 x M40 with six cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		8.20 (18.00)	12.00 (732.28)	250 x 320 x 150 (9.84 x 12.60 x 5.91)	JBEP253215NP04					

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP503215AP02

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 50 mm² terminals (WDU50N) and earth terminals (WPE35), 58 Amps maximum for 50 mm² and 35 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 2PE)						
JBEP5032150	4 x M40 with earth continuity device		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215AP01
JBEP5032150	4 x M40 with four cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215NP01

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 50 mm² terminals (WDU50N) and earth terminals (WPE35), 58 Amps maximum for 50 mm² and 35 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 2PE)						
JBEP5032150	6 x M40 with earth continuity device		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215AP02
JBEP5032150	6 x M40 with six cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215NP02

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP503215AP04

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 50 mm² terminals (WDU50N) and earth terminals (WPE35), 58 Amps maximum for 50 mm² and 35 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + PE)											
JBEP5032150	4 x M40 with earth continuity device		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)						JBEP503215AP03
JBEP5032150	4 x M40 with four cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		8.50 (18.60)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)						JBEP503215NP03

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 50 mm² terminals (WDU50N) and earth terminals (WPE35), 58 Amps maximum for 50 mm², 54 Amps maximum for 35 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number					
						PE	L1	L2	L3	N	PE
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 2PE)											
JBEP5032150	6 x M40 with earth continuity device		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)						JBEP503215AP04
JBEP5032230	6 x M50 with six cable glands for unarmored cable Diameter 28 to 42 mm (1.10 to 1.65 in)		10.30 (22.70)	36.80 (2245.67)	500 x 320 x 230 (19.68 x 12.60 x 9.06)						JBEP503223NP04

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP503215AP22

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 70 mm² terminals (WDU70N) and earth terminals (WPE35), 84 Amps maximum for 70 mm² and 50 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number				
						PE	L1	L2	L3	PE
Configuration: TP (1PE + 2L1 + 2L2 + 2L3 + 2PE)										
JBEP5032150	4 x M40 with earth continuity device		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215AP21				
JBEP5032150	4 x M40 with four cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215NP21				

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 70 mm² terminals (WDU70N) and earth terminals (WPE35), 79 Amps maximum for 70 mm², 72 Amps maximum for 50 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number ②				
						PE	L1	L2	L3	PE
Configuration: TP (2PE + 3L1 + 3L2 + 3L3 + 2PE)										
JBEP5032150	6 x M40 with earth continuity device		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215AP22				
JBEP5032150	6 x M40 with six cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)	JBEP503215NP22				

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified



JBEP503215AP24

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 70 mm² terminals (WDU70N) and earth terminals (WPE35), 84 Amps maximum for 70 mm², 77 Amps maximum for 50 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number ②						
						PE	L1	L2	L3	N	PE	
Configuration: TP + N (2PE + 2L1 + 2L2 + 2L3 + 2N + PE)												
JBEP5032150	4 x M40 with earth continuity device		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)							JBEP503215AP23
JBEP5032150	4 x M40 with four cable glands for unarmored cable Diameter 24 to 34 mm (0.94 to 1.34 in)		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)							JBEP503215NP23

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Terminals and Earth Stud

- 70 mm² terminals (WDU70N) and earth terminals (WPE35), 68 Amps maximum for 70 mm², 62 Amps maximum for 50 mm², 440 Volts

Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number						
						PE	L1	L2	L3	N	PE	
Configuration: TP + N (2PE + 3L1 + 3L2 + 3L3 + 3N + 2PE)												
JBEP5032150	6 x M40 with earth continuity device		9.30 (20.50)	24.00 (1464.57)	500 x 320 x 150 (19.68 x 12.60 x 5.91)							JBEP503215AP24
JBEP5032230	6 x M50 with six cable glands for unarmored cable Diameter 28 to 42 mm (1.10 to 1.65 in)		10.30 (22.70)	36.80 (2245.67)	500 x 320 x 230 (19.68 x 12.60 x 9.06)							JBEP503223NP24

Enclosures and Junction Boxes

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Ex eb IIC Factory Drilled JBEP Polyester Junction Boxes Equipped with Screw Terminals, Earth Bar and Earth Stud

- 120 mm² terminals (WDU95N/120N) and earth copper bar

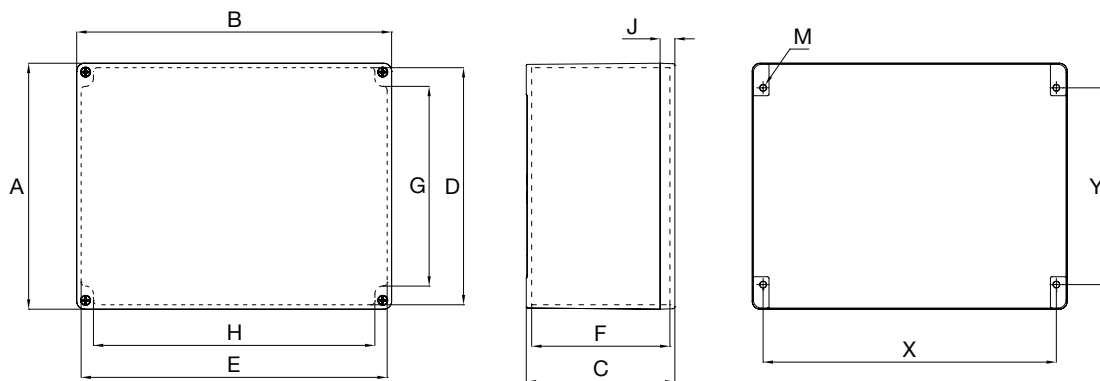
Enclosure Type	Equipment	Entry Layout	Weight kg (lb)	Volume dm ³ (in ³)	Dimensions - mm (in)	Terminal Jumped Catalog Number
						<p>Earth Copper Bar PE</p>
Configuration: TP (2L1 + 2L2 + 2L3 + 1PE) • 95 Amps maximum for 120 mm ² and 95 mm ² , 440 Volts						
JBEP7532230	4 x M50 with earth continuity device		10.80 (23.80)	55.20 (3368.51)	750 x 320 x 230 (29.53 x 12.60 x 9.06)	JBEP753223AP01
JBEP7532150	4 x M50 with four cable glands for unarmored cable Diameter 28 to 42 mm (1.10 to 1.65 in)		9.75 (21.50)	36.00 (2196.85)	750 x 320 x 150 (29.53 x 12.60 x 5.91)	JBEP753215NP01
						<p>Earth Copper Bar PE</p>
Configuration: TP (3L1 + 3L2 + 3L3 + 1PE) • 91 Amps maximum for 120 mm ² , 86 Amps maximum for 95 mm ² , 440 Volts						
JBEP7532230	6 x M50 with earth continuity device		10.80 (23.80)	55.20 (3368.51)	750 x 320 x 230 (29.53 x 12.60 x 9.06)	JBEP753223AP02
JBEP7532230	6 x M50 with six cable glands for unarmored cable Diameter 28 to 42 mm (1.10 to 1.65 in)		10.80 (23.80)	55.20 (3368.51)	750 x 320 x 230 (29.53 x 12.60 x 9.06)	JBEP753223NP02
						<p>Earth Copper Bar PE</p>
Configuration: TP + N (2L1 + 2L2 + 2L3 + 2N + 1PE) • 95 Amps maximum for 120 mm ² , 91 Amps maximum for 95 mm ² , 440 Volts						
JBEP7532230	4 x M50 with earth continuity device		10.80 (23.80)	55.20 (3368.51)	750 x 320 x 230 (29.53 x 12.60 x 9.06)	JBEP753223AP03
JBEP7532150	4 x M50 with four cable glands for unarmored cable Diameter 28 to 42 mm (1.10 to 1.65 in)		9.75 (21.50)	36.00 (2196.85)	750 x 320 x 150 (29.53 x 12.60 x 5.91)	JBEP753215NP03

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches) ①



Enclosure Catalog Number	External Dimension		Internal Dimensions					Cover	Body Thickness	Wall Fixing		M ②	
	A	B	C	D	E	F	G			H	J		X
JBEP0808060	85.0 (3.346)	85.0 (3.346)	61.0 (2.402)	76.7 (3.020)	76.7 (3.020)	47.0 (1.850)	41.0 (1.614)	51.0 (2.008)	15.0 (0.591)	3.5 (0.138)	69.0 (2.717)	49.0 (1.929)	M4
JBEP121209S0	120.0 (4.724)	120.0 (4.724)	91.0 (3.583)	109.5 (4.311)	109.5 (4.311)	75.0 (2.953)	63.0 (4.528)	85.0 (3.346)	15.0 (0.591)	4.5 (0.177)	103.0 (4.055)	83.0 (3.268)	M5
JBEP1717090	170.0 (6.693)	170.0 (6.693)	91.0 (3.583)	158.5 (6.240)	158.5 (6.240)	72.0 (2.835)	112.5 (4.429)	137.0 (5.394)	15.0 (0.591)	4.5 (0.177)	153.0 (6.024)	131.0 (5.157)	M5
JBEP2021100	200.0 (7.874)	215.0 (8.465)	95.0 (3.740)	185.8 (7.315)	200.8 (7.906)	76.0 (2.992)	116.0 (4.567)	159.0 (6.260)	20.0 (0.787)	6.1 (0.240)	189.0 (7.441)	146.0 (5.748)	M6
JBEP2021150	200.0 (7.874)	215.0 (8.465)	145.0 (5.709)	185.8 (7.315)	200.8 (7.906)	122.5 (4.823)	114.8 (4.519)	159.0 (6.260)	20.0 (0.787)	6.1 (0.240)	189.0 (7.441)	146.0 (5.748)	M6
JBEP2532150	250.0 (9.843)	320.0 (12.598)	150.0 (5.906)	241.0 (9.488)	311.0 (12.244)	133.5 (5.256)	171.0 (6.732)	267.0 (10.512)	15.0 (0.591)	5.0 (0.197)	200.0 (7.874)	298.0 (11.732)	M6
JBEP3225150	320.0 (12.598)	250.0 (9.843)	150.0 (5.906)	311.0 (12.244)	241.0 (9.488)	133.5 (5.256)	267.0 (10.512)	171.0 (6.732)	15.0 (0.591)	5.0 (0.197)	298.0 (11.732)	200.0 (7.874)	M6
JBEP3250150	320.0 (12.598)	500.0 (19.685)	150.0 (5.906)	311.0 (12.244)	491.0 (19.331)	133.5 (5.256)	267.0 (10.512)	421.0 (16.575)	15.0 (0.591)	5.0 (0.197)	298.0 (11.732)	447.0 (17.598)	M6
JBEP3250230	320.0 (12.598)	500.0 (19.685)	230.0 (9.055)	311.0 (12.244)	491.0 (19.331)	213.5 (8.406)	267.0 (10.512)	421.0 (16.575)	15.0 (0.591)	5.0 (0.197)	298.0 (11.732)	447.0 (17.598)	M6
JBEP3275150	320.0 (12.598)	750.0 (29.528)	150.0 (5.906)	311.0 (12.244)	741.0 (29.173)	133.5 (5.256)	267.0 (10.512)	671.0 (26.417)	15.0 (0.591)	5.0 (0.197)	298.0 (11.732)	698.0 (27.480)	M6
JBEP3275230	320.0 (12.598)	750.0 (29.528)	230.0 (9.055)	311.0 (12.244)	741.0 (29.173)	213.5 (8.406)	267.0 (10.512)	671.0 (26.417)	15.0 (0.591)	5.0 (0.197)	298.0 (11.732)	698.0 (27.480)	M6

① Wall fixing screw diameter 5 mm (0.20"). Wall fixing screw hole 6 mm (0.24").

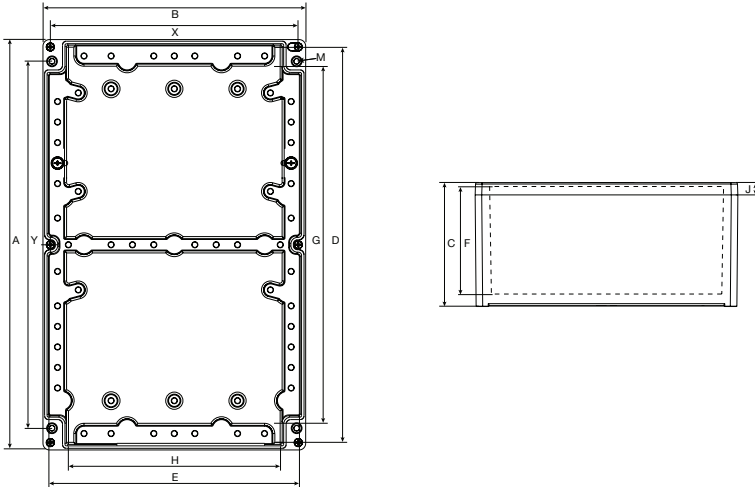
② Screw to be used for mounting box.

ATX™ JBEP Series FRP Terminal Junction Boxes for Electrical and Power Applications

Increased Safety. Factory Drilled and Equipped.

ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches) ①



Enclosure Catalog Number	External Dimension			Internal Dimensions				Cover J	Body Thickness	Wall Fixing			
	A	B	C	D	E	F	G			H	X	Y	M ②
JBEP5032150	500 (19.685)	320 (12.598)	150 (5.906)	491 (19.331)	311 (12.244)	133.5 (5.256)	421 (16.575)	267 (10.512)	15 (0.591)	5 (0.197)	447 (17.598)	298 (11.732)	M6
JBEP5032230	500 (19.685)	320 (12.598)	230 (9.055)	491 (19.331)	311 (12.244)	213.5 (8.406)	421 (16.575)	267 (10.512)	15 (0.591)	5 (0.197)	447 (17.598)	298 (11.732)	M6
JBEP7532150	750 (29.528)	320 (12.598)	150 (5.906)	741 (29.173)	311 (12.244)	133.5 (5.256)	671 (26.417)	267 (10.512)	15 (0.591)	5 (0.197)	298 (11.732)	698 (27.480)	M6
JBEP7532230	750 (29.528)	320 (12.598)	230 (9.055)	741 (29.173)	311 (12.244)	213.5 (8.406)	671 (26.417)	267 (10.512)	15 (0.591)	5 (0.197)	698 (27.480)	298 (11.732)	M6

① Wall fixing screw diameter 5 mm (0.20"). Wall fixing screw hole 6 mm (0.24").

② Screw to be used for mounting box.

AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Terminal junction boxes are used to distribute power to lighting and to other power and control circuits.
- Suitable for use in both intrinsically safe and non-intrinsically safe systems.
- Designed for Zones 1 or 2 areas, where flammable gases or vapors are present either continuously, often or accidentally such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for indoor/outdoor use with wet or corrosive atmospheres.
- Designed for use in Zones 21 or 22 areas where flammables dusts (conductive and non conductive) are present either continuously, often or accidentally such as:
 - Food processing
 - Dairy
 - Brewing
 - Other industrial process facilities



Features

- Static resistant black glass reinforced polyester enclosure.
- High IP66 rating allows the enclosure to be installed in either indoor or outdoor environments where protection against dirt, water and moisture is required
- Designed for application with voltage ratings up to 5,500 Vac and rated current up to 1,500 Amp.
- Multiple enclosure size for different termination applications. Example: 77 mm x 82 mm x 56 mm up to 420 mm x 720 mm x 240 mm (3.03 in x 3.23 in x 2.20 in up to 16.54 in x 28.35 in x 9.45 in).
- Available with multiple terminal block size configurations from 1.5 mm² (0.06 in²) up to 240 mm² (9.45 in²).

Standard Material

- Enclosures: glass reinforced plastic (GRP)
- Cover gasket: silicone
- Mounting plate: zinc plated steel
- Hardware and fasteners: stainless steel.

Options

- Nameplates
- Mounting plate material: stainless steel, contact your local sales representative
- Consult factory for custom drilling and assembly requirements

ATEX/IECEx Certifications and Compliances

- Gas, Zones 1 and 2:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2G
 - Type of Protection: Ex eb IIC T5/T6 Gb, Ex ia IIC T5/T6 Gb, Ex eb ia IIC T5/T6 Gb
 - Temperature Class: T6 to T5
- Dust, Zone 21 and Zone 22:
 - Conforming to Directive 2014/34/EU: Ⓢ II 2D
 - Type of Protection: Ex tb IIIC T80°C/T95°C Db
 - Surface Temperature: T80°C to T95°C
- Ambient Temperature:
 - -35 °C up to +40 °C (-31 °F up to +104 °F) (@T6) and -35 °C up to +55 °C (-31 °F up to +131 °F) (@T6)
- ATEX Certificate: **CE** 2460 ExVeritas 18 ATEX 0329X, **CE** 2460 ExVeritas 18 ATEX 0327U, **CE** 2804 ExVeritas 18 ATEX 0329X, **CE** 2804 ExVeritas 18 ATEX 0327U
- IECEx Certificate: IECEx EXV 18.0005X, IECEx EXV 18.0004X
- Index of Protection according EN/IEC 60529: IP66

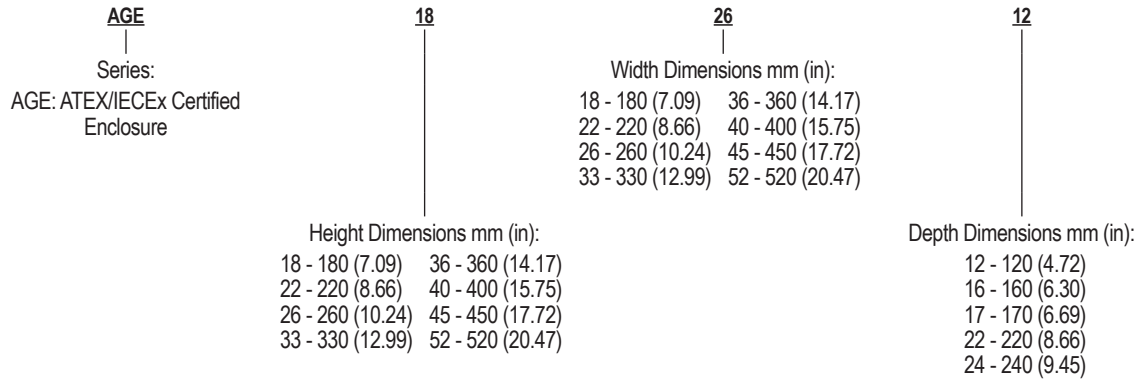
AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

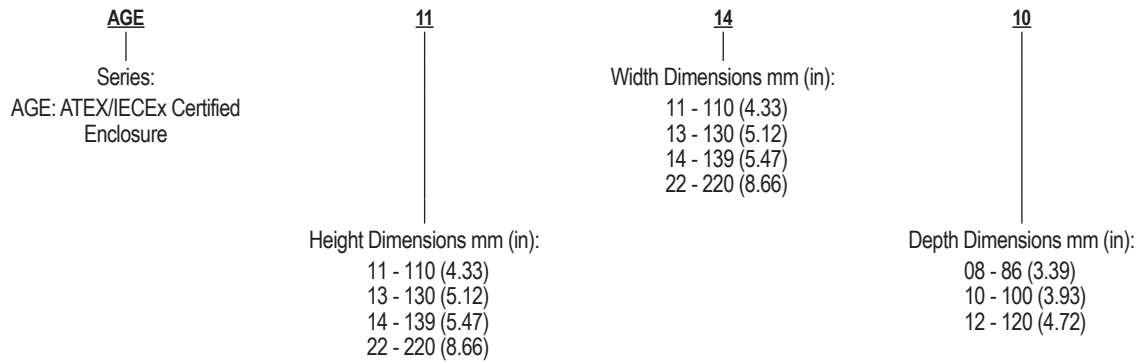
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Enclosures and Junction Boxes

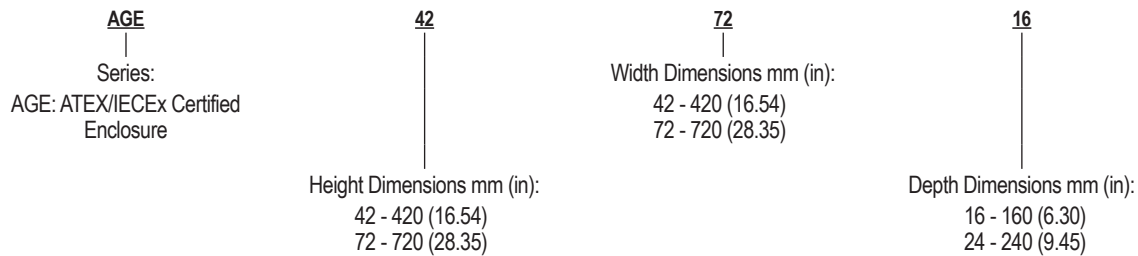
Catalog Numbering Guide — AGE Series GRP Enclosures Boxes —Type 1



Catalog Numbering Guide — AGE Series GRP Enclosures Boxes —Type 2



Catalog Numbering Guide — AGE Series GRP Enclosures Boxes —Type 3

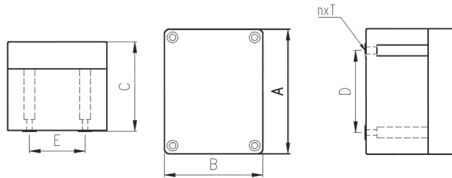


AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Enclosure Information — Type 1 — Dimensions in Millimeters (Inches)



A	B	C	D	E	N	T	Catag Number
180 (7,09)	260 (10,24)	120 (4,72)	163 (6,42)	200 (7,87)	4 (0,16)	Ø 7 (0,28)	AGE182612
220 (8,66)	360 (14,17)	120 (4,72)	200 (7,87)	296 (11,65)	4 (0,16)	Ø 9 (0,35)	AGE223612
220 (8,66)	360 (14,17)	170 (6,69)	200 (7,87)	296 (11,65)	4 (0,16)	Ø 9 (0,35)	AGE223617
260 (10,24)	180 (7,09)	120 (4,72)	200 (7,87)	163 (6,42)	4 (0,16)	Ø 7 (0,28)	AGE261812
330 (12,99)	450 (17,72)	160 (6,30)	304 (11,97)	379 (14,92)	4 (0,16)	Ø 9 (0,35)	AGE334516
330 (12,99)	450 (17,72)	240 (9,45)	304 (11,97)	379 (14,92)	4 (0,16)	Ø 9 (0,35)	AGE334524
360 (14,17)	220 (8,66)	120 (4,72)	296 (11,65)	200 (7,87)	4 (0,16)	Ø 9 (0,35)	AGE362212
360 (14,17)	220 (8,66)	170 (6,69)	296 (11,65)	200 (7,87)	4 (0,16)	Ø 9 (0,35)	AGE362217
360 (14,17)	360 (14,17)	120 (4,72)	297 (11,69)	340 (13,39)	4 (0,16)	Ø 9 (0,35)	AGE363612
360 (14,17)	360 (14,17)	170 (6,69)	297 (11,69)	340 (13,39)	4 (0,16)	Ø 9 (0,35)	AGE363617
400 (15,75)	520 (20,47)	220 (8,66)	383 (15,08)	457 (17,99)	4 (0,16)	Ø 10 (0,39)	AGE405222
450 (17,72)	330 (12,99)	160 (6,30)	379 (14,92)	304 (11,97)	4 (0,16)	Ø 9 (0,35)	AGE453316
450 (17,72)	330 (12,99)	240 (9,45)	379 (14,92)	304 (11,97)	4 (0,16)	Ø 9 (0,35)	AGE453324
520 (20,47)	400 (15,75)	220 (8,66)	457 (1,77)	383 (15,08)	4 (0,16)	Ø 10 (0,39)	AGE524022

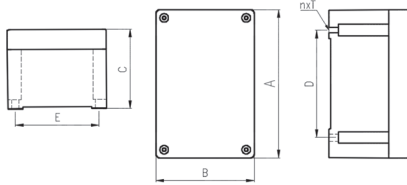
Enclosures and Junction Boxes

AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

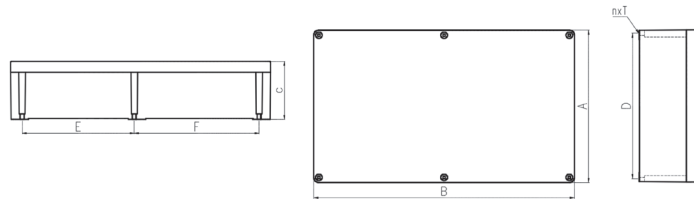
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Enclosure Information — Type 2 — Dimensions in Millimeters (Inches)



A	B	C	D	E	N	T	Catalog Number
110 (4.33)	139 (5.47)	100 (3.93)	96 (3.78)	91 (3.58)	2 (0.08)	Ø 6 (0.24)	AGE111410
130 (5.12)	130 (5.12)	86 (3.39)	86 (3.39)	116 (4.57)	2 (0.08)	Ø 6 (0.24)	AGE131308
130 (5.12)	220 (8.66)	120 (4.72)	116 (4.57)	172 (6.77)	2 (0.08)	Ø 6 (0.24)	AGE132212
139 (5.47)	110 (4.33)	100 (3.93)	91 (3.58)	96 (3.78)	2 (0.08)	Ø 6 (0.24)	AGE141110
220 (8.66)	130 (5.12)	120 (4.72)	172 (6.77)	116 (4.57)	2 (0.08)	Ø 6 (0.24)	AGE221312

Enclosure Information — Type 3 — Dimensions in Millimeters (Inches)



A	B	C	D	E	F	N	T	Catalog Number
420 (16.54)	720 (28.35)	160 (6.30)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGE427216
420 (16.54)	720 (28.35)	240 (9.45)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGE427224
720 (28.35)	420 (16.54)	160 (6.30)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGE724216
720 (28.35)	420 (16.54)	240 (9.45)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGE724224

Enclosures and Junction Boxes

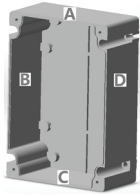
AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Cable Entry Arrangement

Note: The information is only for reference. For Power Junction Box application please contact your local sales representative.



M20		M25		M32		M40		M50		M63		Catalog Number
A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	
2	2	1	1	1	1	1	1	—	—	—	—	AGE111410
2	2	2	1	—	—	—	—	—	—	—	—	AGE131308
8	4	4	2	3	1	2	1	-	-	-	-	AGE132212
2	2	1	1	1	1	1	1	-	-	-	-	AGE141110
8	6	5	3	3	2	2	1	—	—	—	—	AGE182612
4	8	2	4	1	3	1	2	—	—	—	—	AGE221312
12	8	8	4	5	3	3	2	—	—	—	—	AGE223612
20	13	14	9	9	5	6	3	3	2	2	1	AGE223617
6	8	3	5	2	3	1	2	—	—	—	—	AGE261812
24	20	17	12	12	8	7	7	4	3	3	2	AGE334516
24	20	17	12	12	8	7	7	4	3	3	2	AGE334524
8	12	4	8	3	5	2	3	—	—	—	—	AGE362212
13	20	9	14	5	9	3	6	2	3	1	2	AGE362217
14	12	9	7	5	4	4	3	-	-	-	-	AGE363612
25	20	16	14	11	8	8	6	4	3	3	2	AGE363617
51	35	33	25	22	17	15	11	9	7	7	5	AGE405222
44	24	30	16	16	11	11	6	6	4	5	3	AGE427216
44	24	30	16	16	11	11	6	6	4	5	3	AGE427224
20	24	12	17	8	12	7	7	3	4	2	3	AGE453316
20	24	12	17	8	12	7	7	3	4	2	3	AGE453324
35	51	25	33	17	22	11	15	7	9	5	7	AGE524022
24	44	16	30	11	16	6	11	4	6	3	5	AGE724216
24	44	16	30	11	16	6	11	4	6	3	5	AGE724224

Enclosures and Junction Boxes

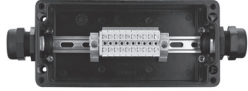
AGE Series Glass Reinforced Polyester Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Terminal Block Arrangement

Note: The terminal blocks quantity and arrangement information below is for reference only. For customized arrangements, please contact your local sales representative.



Enclosure Size Dimensions in Millimeters (Inches)	Max Wattage/Current (T6 at 40 °C) Wattage (W)	Capacity of Terminals (mm ²)								
		2.5	4	6	10	16	35	50	70	95
77x82x56 (3.03x3.23x2.20)	3.07	5	4	—	—	—	—	—	—	—
77x112x56 (3.03x4.41x2.20)	3.76	11	9	—	—	—	—	—	—	—
77x162x56 (3.03x6.38x2.20)	4.91	21	18	—	—	—	—	—	—	—
77x232x56 (3.03x9.13x2.20)	6.52	35	29	—	—	—	—	—	—	—
110x139x100 (4.33x 5.47x 3.94)	8.72	13	11	9	7	6	—	—	—	—
122x220x90 (4.80x8.66x3.54)	11.14	33	27	21	16	14	—	—	—	—
130x130x86 (5.12x5.12x 3.39)	7.65	11	10	7	6	5	—	—	—	—
130x220x120 (5.12x8.66x4.72)	15.11	33	27	21	17	14	10	9	—	—
160x260x90 (6.30x10.24x3.54)	13.55	39	32	25	20	16	—	—	—	—
160x360x90 (6.30x14.17x3.54)	17.25	58	49	37	30	24	—	—	—	—
180x260x120 (7.09x10.24x4.72)	18.73	38	32	25	20	17	12	11	—	—
220x360x120 (8.66x14.17x4.72)	24.97	60	50	38	30	25	19	16	—	—
220x360x170 (8.66x14.17x6.69)	35.37	60	50	38	30	25	19	16	15	11
330x450x160 (12.99x17.72x6.30)	44.02	140	116	90	70	60	44	38	34	26
330x450x240 (12.99x17.72x9.45)	66.04	140	116	90	70	60	44	38	34	26
360x360x120 (14.17x14.17x4.72)	29.57	150	120	96	78	63	45	39	24	18
360x360x170 (14.17x14.17x6.69)	41.89	150	120	96	78	63	45	39	24	18
400x520x220 (15.75x9.84x8.66)	71.07	264	222	168	135	114	84	65	44	34
420x720x160 (16.53x 28.35x6.30)	65.71	360	300	228	180	150	111	99	60	44
420x720x240 (16.53x 28.35x9.45)	98.56	360	300	228	180	150	111	99	60	44

Enclosures and Junction Boxes

ATX™ JBEA and ECEA Series Aluminum Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Designed for use in Zone 1 or 2 areas where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres.
- Petroleum, chemical, refineries and other industrial process facilities.
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently.
- Food processing, dairy, brewing and other commercial facilities.
- JBEA Series:
 - Terminal junction boxes for electrical low voltage and instrumentation connections in hazardous areas.
 - Refer to technical data to define permitted number of terminal blocks and cable entries on selected junction boxes.
- ECEA Series:
 - Enclosure for distribution and control applications can be customized at our workshop to house a large range of components; i.e. control units, switches, breakers, transformers, meters, etc.

Features

- Operating temperature:
 - PCe type: -55 °C to +60 °C (-67 °F to 140 °F)
 - CAe type: -40 °C to +55 °C (-40 °F to 131 °F)
- Rail mounting.
- Refer to technical data to define permitted number and size of terminals and cable entries.

Standard Materials

- Enclosure: gray painted grade marine aluminum alloy
- Hardware: stainless steel

Options

- Nameplates.
- Consult your local sales representative for:
 - Enclosures custom drilled and assembled at our factory.

ATEX/IECEx Certifications and Compliances

- Certification Type: PCe
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II, Ex ia IIC, Ex ib IIC, Ex de IIC
 - Temperature class: T6 for Ta ≤ +40 °C (+104 °F), T5 for Ta ≤ +60 °C (+140 °F)
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C (T176 °F to T203 °F)
 - Ambient Temperature: -55 °C to +60 °C (-67 °F to +140 °F)
 - ATEX Certificate: LCIE 00 ATEX 6047
 - Index of Protection according EN/IEC 60529: IP66
- Certification Type: CAe
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II, Ex ia IIC, Ex ib IIC, Ex de IIC
 - Temperature Class: T6 to T2
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T290 °C (T176 °F to T554 °F)
 - ATEX Certificate: LCIE 02 ATEX 6248X
 - IECEx Certificate: IECEx LCI 04.0016X
 - Index of Protection according EN/IEC 60529: IP66



PCe Type



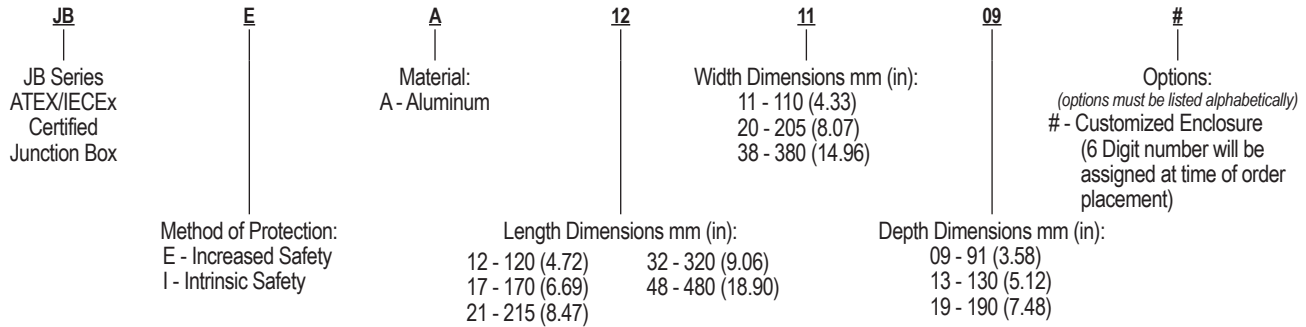
CAe Type

ATX™ JBEA and ECEA Series Aluminum Enclosures

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — JBEA Series Aluminum Junction Box



JBEA Series: Ex e II Aluminum Junction Boxes



For use with Ex certified terminals only (not supplied).
 Mounting rails supplied.
 Yellow laminated plastic label with black lettering.

ECEA Series: Aluminum Enclosure for Distribution and Control Applications




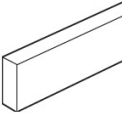

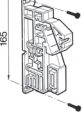
Designed to house a large range of components; i.e. control units, switches, breakers, transformers, meters, etc.
 Must be customized at our workshop with the following Catalog Number:
 Replace JB with EC, and add last digits and “#” for customized boxes. Example: ECEA 212013 #

Type	Dimensions L x W x D mm (in)	Rail Length Maximum Width mm (in)	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
					JBEA Series	ECEA Series
PCe1	120.0 x 110.0 x 95.0 (4.72 x 4.33 x 3.74)	94.0 (201.00)	1.0 (2.20)	2.2 (134.25)	JBEA121109	ECEA121109#
PCe2	170.0 x 110.0 x 95.0 (6.69 x 4.33 x 3.74)	144.0 (291.00)	1.3 (2.87)	2.7 (164.76)	JBEA171109	ECEA171109#
PCe3	230.0 x 110.0 x 95.0 (9.10 x 4.33 x 3.74)	204.0 (399.00)	1.6 (3.53)	5.2 (317.32)	JBEA231109	ECEA231109#
CAe1	215.0 x 205.0 x 130.0 (8.47 x 8.07 x 5.12)	191.0 (376.00)	4.0 (8.82)	13.0 (793.30)	JBEA212013	ECEA212013#
CAe2	320.0 x 205.0 x 130.0 (12.60 x 8.07 x 5.12)	293.0 (559.00)	5.0 (11.02)	23.0 (1403.60)	JBEA322013	ECEA322013#
CAe5	480.0 x 380.0 x 190.0 (18.90 x 14.96 x 7.48)	335.0 (635.00)	11.0 (24.25)	53.0 (3234.30)	JBEA483819	ECEA483819#

ATX™ JBEA and ECEA Series Aluminum Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Accessories		Enclosure Type	Rail Length mm (in)	Catalog Number	Pack
	Zinc Plated Symmetrical Steel Rail For direct fixing. Set of two 60 mm (2.36") height spacers supplied.	CAe1	191 (7.52)	JBEPDR215	1
		CAe2	293 (11.54)	JBEPDR320	1
	Copper Bar – 12 x 4 mm (0.47 x 0.16") Copper bar not perforated for cable clamps.		Bar Length mm (in)	Catalog Number	Pack
			160 (6.30)	097270	1
			200 (7.87)	097271	1
			310 (12.20)	097272	1
			500 (19.68)	097273	1
	690 (27.17)	097274	1		
	Cable Clamp for Copper Bar – 12 x 4 mm (0.47 x 0.16") 1.5 mm ² to 4 mm ² (0.002 in ² to 0.006 in ²) capacity. 6 mm ² to 16 mm ² (0.009 in ² to 0.025 in ²) capacity.			097203	1
				097204	1
	Insulated Side Support – Set of Two For mounting symmetrical, asymmetrical rails and copper bar 12 x 2 mm (0.47 x 0.08") or 12 x 4 mm (0.47 x 0.16"). See dimensional data page for more details.			096115	1

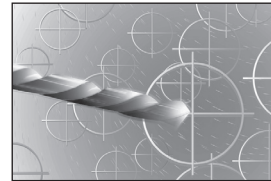
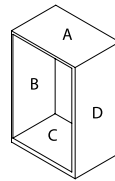
Enclosures and Junction Boxes

JBEA Series for Junction Box Application Only

The size of the junction box needed to meet your requirements can be selected based on the table shown below. We also offer you the possibility to drill and equip, please consult our drilling guide available online at: www.appleton.emerson.com

1. Define maximum cable entries according to number of modules available per side:

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions mm (in)			Number of Modules		Allowable Max. Size	Terminal Dim. H — mm (in)
	Length	Width	Depth	A/C	B/B		
PCe1	120 (4.72)	110 (4.33)	95 (3.74)	2	2	M25	110 (4.33)
PCe2	170 (6.69)	110 (4.33)	95 (3.74)	2	3	M32	110 (4.33)
PCe3	230 (8.46)	110 (4.33)	95 (3.74)	2	4	M32	110 (4.33)
CAe1	215 (8.47)	205 (8.07)	130 (5.12)	11	8	M50	205 (8.07)
CAe2	320 (12.60)	205 (8.07)	130 (5.12)	18	8	M50	205 (8.07)
CAe5	575 (22.64)	380 (14.96)	190 (7.48)	34	25	M50	380 (14.96)

2. Maximum Rail Arrangement According to Physical Dimensions — Maximum Quantity of Horizontal Rails:

Type	Terminal Capacity mm ² (in ²)						
	2.5 (0.0039)	4.0 (0.0062)	6.0 (0.0093)	10.0 (0.0155)	16.0 (0.0248)	35.0 (0.0543)	50.0 (0.0775)
PCe1/2/3	1	1	1	1	0	0	0
CAe1/2	1	1	1	1	1	1	0
CAe5	3	3	2	2	2	1	1

ATX™ JBEA and ECEA Series Aluminum Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

3. Defining maximum terminal block quantity according to power dissipation:

- Junction boxes used for instrumentation applications have very low current levels, therefore there is no risk of overheating whatever the number of terminals inside the box.
- For applications other than instrumentation, the following tables allow you to define your junction box depending on the number of terminals and the maximum authorized current being carried with feed-through terminals.
- For single feed terminals using cross connection, please consult your local representative for a calculation.

For other terminal block configurations, please consult our drilling guide available online at: www.appleton.emerson.com

		Type		
		CSPe1 120 x 120 x 91 mm (5 x 5 x 4")	CSPe2 120 x 170 x 91 mm (7 x 5 x 4")	CSPe3 120 x 230 x 91 mm (9 x 5 x 4")
T Rating: T6	Quantity	12	22	33
	I Maximum	15 A	13 A	12 A
2.5 mm ² (0.004 in ²)	Quantity	10	18	28
	I Maximum	20 A	19 A	16 A
4.0 mm ² (0.006 in ²)	Quantity	7	14	21
	I Maximum	32 A	27 A	24 A
6.0 mm ² (0.009 in ²)	Quantity	4	6	8
	I Maximum	50 A	50 A	50 A

		Type		
		CAe1 200 x 215 x 150 mm (8 x 9 x 6")	CAe2 200 x 320 x 150 mm (8 x 13 x 6")	CAe4 200 x 575 x 150 mm (8 x 23 x 6")
T Rating: T6 @ Ta +40 °C (+104 °F) T5 @ Ta +55° C (+131 °F)	Quantity	20	21	38
	I Maximum	16 A	16 A	16 A
2.5 mm ² (0.004 in ²)	Quantity	19	20	38
	I Maximum	20 A	20 A	20 A
4.0 mm ² (0.006 in ²)	Quantity	12	13	23
	I Maximum	32 A	32 A	32 A
6.0 mm ² (0.009 in ²)	Quantity	10	11	30
	I Maximum	40 A	40 A	32 A
10.0 mm ² (0.016 in ²)	Quantity	8	10	22
	I Maximum	28 A	27 A	26 A
16.0 mm ² (0.024 in ²)	Quantity	8	8	20
	I Maximum	67 A	73 A	60 A
25.0 mm ² (0.039 in ²)	Quantity	8	8	12
	I Maximum	79 A	86 A	100 A
35.0 mm ² (0.054 in ²)	Quantity			
	I Maximum			

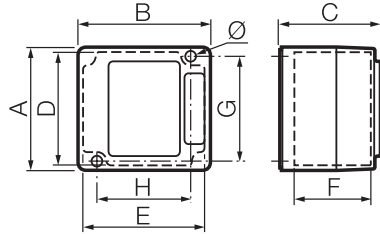
ATX™ JBEA and ECEA Series Aluminum Enclosures

Increased Safety

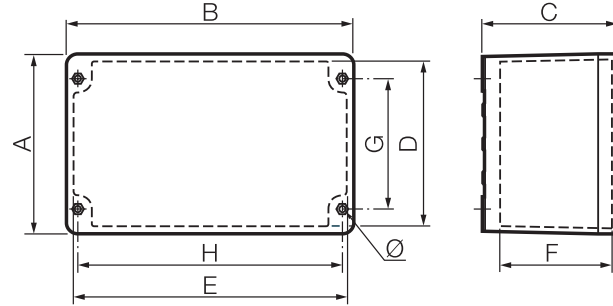
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

PCe1 to PCe3



CAe1 to CAe5

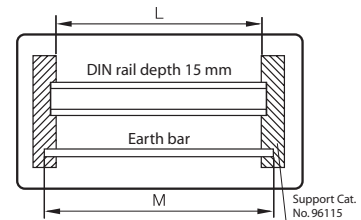
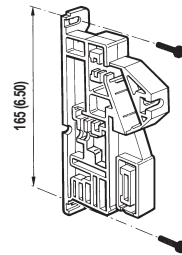


Type	External			Internal			Fixings		Thick	Ø
	A	B	C	D	E	F	G	H		
PCe1	110 (4.33)	120 (4.72)	95 (3.74)	100 (3.94)	110 (4.33)	70 (2.76)	94 (3.70)	84 (3.31)	20 (0.79)	5.0 (0.20)
PCe2	110 (4.33)	170 (6.69)	95 (3.74)	100 (3.94)	160 (6.30)	70 (2.76)	94 (3.70)	134 (5.28)	20 (0.79)	5.0 (0.20)
PCe3	110 (4.33)	230 (9.10)	95 (3.74)	100 (3.94)	220 (8.66)	70 (2.76)	94 (3.70)	194 (7.64)	20 (0.79)	5.0 (0.20)
CAe1	205 (8.07)	215 (8.47)	130 (5.12)	190 (7.48)	200 (7.87)	105 (4.13)	146 (5.75)	186 (7.32)	10 (0.39)	6.5 (0.26)
CAe2	205 (8.07)	320 (12.60)	130 (5.12)	190 (7.48)	305 (12.01)	105 (4.13)	146 (5.75)	290 (11.42)	10 (0.39)	6.5 (0.26)
CAe5	480 (18.90)	380 (14.96)	190 (7.48)	378 (14.88)	279 (10.98)	132 (5.20)	385 (15.16)	285 (11.22)	13 (0.51)	7.0 (0.28)

Insulated Side Support (Rail Holder) 096115

Equipment Capacity

Type	L	M
CAe1	105 (4.13)	129 (5.08)
CAe2	206 (8.11)	234 (9.21)
CAe5	315 (12.40)	345 (13.58)



ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Terminal junction boxes to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for wet or corrosive atmospheres.
- Petroleum, chemical, refineries and other industrial process facilities.
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently.
- Food processing, dairy, brewing, silos and other facilities.

Features

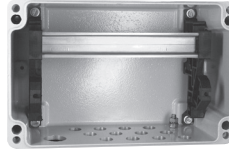
- Operating temperature:
 - PCe type: -55 °C to +60 °C (-67 °F to +140 °F)
 - CAe type: -40 °C to +55 °C (-40 °F to +131 °F)
- For use only with Ex certified terminal blocks.
- Stainless steel hardware.
- Yellow laminated plastic label with black lettering.
- Factory drilled and equipped.

Standard Materials

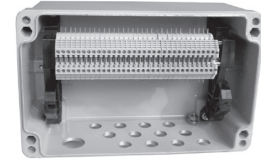
- Enclosure: gray painted grade marine aluminum alloy
- Hardware: stainless steel

Options

- For use with equipment other than Ex terminal blocks, see ECEA series enclosures and controls.



Without Terminals



Equipped with Terminals

ATEX/IECEX Certifications and Compliances

- Certification Type: PCe
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II, Ex eia IIC, Ex eib IIC
 - Temperature Class: T6
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -50 °C to +60 °C (-58 °F to +140 °F)
 - ATEX Certificate: LCIE 00 ATEX 6047
- Certification Type: CAe
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex e II, Ex eia IIC, Ex eib IIC
 - Temperature Class: T6 for Ta ≤ +40 °C (+104 °F); T5 for +40 °C ≤ Ta ≤ +55 °C (+104 °F ≤ Ta ≤ +131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Ambient Temperature: T80 °C to T96 °C (T176 °F to T205 °F)
 - ATEX Certificate: LCIE 02 ATEX 6248X
 - IECEX Certificate: IECEX LCI 04.0016X
 - Index of Protection according EN/IEC 60529: IP66

Catalog Numbering Guide — JBEA Series Aluminum Junction Box

JB	E	A	12	11	09	D1
JB Series ATEX/IECEX Certified Junction Box		Material: A - Aluminum		Width Dimensions mm (in): 11 - 110 (4.33) 20 - 205 (8.07) 38 - 380 (14.96)		Options: <i>(options must be listed alphabetically)</i> D1 - 5 x M20 D2 - 4 x M20 + 1 x M25 D3 - 7 x M20 + 1 x M25 D5 - 7 x M20 + 1 x M25 D6 - 12 x M20 + 1 x M32 D7 - 19 x M20 + 1 x M32 D8 - 27 x M20 + 1 x M40 P - Unarmored Cable A - Armored Cable L - Lead Sheath Armored Cable E - Earth Continuity Brass Plate # - Customized Enclosure (Digit number will be assigned at time of order placement)
	Method of Protection: E - Increased Safety I - Intrinsic Safety		Length Dimensions mm (in): 12 - 120 (4.72) 32 - 320 (9.06) 17 - 170 (6.69) 48 - 480 (18.90) 21 - 215 (8.47)		Depth Dimensions mm (in): 09 - 91 (3.58) 13 - 130 (5.12) 19 - 190 (7.48)	

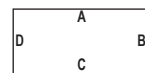
ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Factory Drilled Ex e II Aluminum Junction Boxes

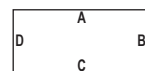
Fitted with: One horizontal symmetrical zinc plated rail. For use with Ex terminals only (not supplied). Yellow laminated plastic label with black lettering. Internal earth terminal. M5 external earth screw. Cable glands and plugs ordered separately.



Type	Dimensions L x W x D mm (in)	Rail Length Maximum mm (in)	Threaded Holes Per Side				Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
			A	B	C	D			
PCe1	120 x 110 x 95 (4.72 x 4.33 x 3.74)	62.0 (2.44)	1 x M20	1 x M20	2 x M20	1 x M20	1.0 (2.20)	2.2 (134.25)	JBEA121109D1
PCe2	170 x 110 x 95 (6.69 x 4.33 x 3.74)	112.0 (4.41)	—	1 x M20	2 x M20 1 x M25	1 x M20	1.3 (2.87)	2.7 (164.76)	JBEA171109D2
PCe3	230 x 110 x 95 (9.10 x 4.33 x 3.74)	172.0 (6.77)	—	2 x M20	3 x M20 1 x M25	2 x M20	1.6 (3.53)	5.2 (317.32)	JBEA231109D3

Factory Drilled Ex e II Aluminum Junction Boxes for Instrumentation Applications

Fitted with: Yellow laminated plastic label with black lettering. Set of two insulated side supports (096115). One horizontal symmetrical zinc plated rail. For use with Ex terminals only (not supplied). Also available for use with copper bar 12 x 2 mm (0.47" x 0.08") or 12 x 4 mm (0.47" x 0.16"). Cable glands and plugs ordered separately. M8 external earth crossing terminal.



Type	Dimensions L x W x D mm (in)	Cable	Rail Length Maximum mm (in)	Threaded Holes Side C	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
CAe1	215 x 205 x 130 (8.47 x 8.07 x 5.12)	7 Pairs	221 (105)	1 x M25	7 x M20	4 (8.82)	13 (793.3)	JBEA212013D5
CAe2	320 x 205 x 130 (12.60 x 8.07 x 5.12)	12 Pairs	403 (206)	1 x M32	12 x M20	5 (11.02)	23 (1403.6)	JBEA322013D6
CAe5	480 x 380 x 190 (18.90 x 14.96 x 7.48)	27 Pairs	599 (315)	1 x M40	27 x M20	11 (24.25)	53 (3234.3)	JBEA483819D8

Factory Assembled Ex Terminal Block for Junction Boxes Shown Above

Screwed/Screwed Terminal Block Fitted with Continuity Shield.



For Junction Boxes	Cable	Terminals 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Continuity Shield Qty.	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
215 x 205 x 130 (8.47 x 8.07 x 5.12)	7 Pairs	14	7	0.3 (0.66)	0.5 (30.5)	096039
320 x 205 x 130 (12.60 x 8.07 x 5.12)	12 Pairs	24	12	0.4 (0.88)	1.1 (63.1)	096041
480 x 380 x 190 (18.90 x 14.96 x 7.48)	27 Pairs	54	27	0.6 (1.32)	1.7 (103.7)	096044

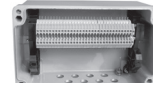
ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Factory Drilled and Equipped with Terminals Ex e II Aluminum Junction Boxes for Instrumentation Applications with Unarmored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields.
Yellow laminated plastic label with black lettering. M16 to M50 threaded entries.
Cable glands and plugs ordered separately.



Type	Terminal Block 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Earth Terminal 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Copper Bar 10 x 3 mm (0.39" x 0.12") Qty.	Cable Clamp 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Continuity Shield Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries Qty.	Catalog Number
Cable U1000 RQ2V — Single Cable Entries M20								
CAe1	07G1.5	7	1	5	—	M20	3	JBEA212013P01
CAe1	12G1.5	12	1	8	—	M25	6	JBEA212013P02
CAe2	19G1.5	19	1	11	—	M25	9	JBEA322013P03
CAe2	24G1.5	24	1	14	—	M32	12	JBEA322013P04
CAe2	27G1.5	27	1	15	—	M32	13	JBEA322013P05
CAe1	07G2.5	7	1	5	—	M20	3	JBEA212013P07
CAe1	12G2.5	12	1	8	—	M25	6	JBEA212013P08
CAe2	19G2.5	19	1	11	—	M32	9	JBEA322013P09
CAe2	24G2.5	24	1	14	—	M32	12	JBEA322013P10
CAe2	27G2.5	27	1	15	—	M32	13	JBEA322013P11
Cable EGSF — Single Cable Entries M16								
CAe1	07IP05	14	—	—	7	M20	7	JBEA212013P21
CAe1	07IT05	21	—	—	7	M20	7	JBEA212013P22
CAe2	12IP05	24	—	—	12	M25	12	JBEA322013P23
CAe2	12IT05	36	—	—	12	M25	12	JBEA322013P24
CAe5	27IP05	54	—	—	27	M32	27	JBEA483819P26
CAe1	07IP09	14	—	—	7	M25	7	JBEA212013P27
CAe1	07IT09	21	—	—	7	M25	7	JBEA212013P28
CAe2	12IP09	24	—	—	12	M32	12	JBEA322013P29
CAe2	12IT09	36	—	—	12	M32	12	JBEA322013P30
CAe5	27IP09	54	—	—	27	M40	27	JBEA483819P32
Cable EISF — Single Cable Entries M16								
CAe1	07IP05	15	—	—	8	M25	7	JBEA212013P41
CAe1	07IT05	22	—	—	8	M32	7	JBEA212013P42
CAe2	12IP05	25	—	—	13	M32	12	JBEA322013P43
CAe2	12IT05	37	—	—	13	M32	12	JBEA322013P44
CAe5	27IP05	55	—	—	28	M40	27	JBEA483819P46
CAe1	07IP09	15	—	—	8	M32	7	JBEA212013P47
CAe1	07IT09	22	—	—	8	M32	7	JBEA212013P48
CAe2	12IP09	25	—	—	13	M40	12	JBEA322013P49
CAe2	12IT09	37	—	—	13	M40	12	JBEA322013P50
CAe5	27IP09	55	—	—	28	M50	27	JBEA483819P52

ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Factory Drilled and Equipped with Terminals Ex e II Aluminum Junction Boxes for Instrumentation Applications with Armored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields. Yellow laminated plastic label with black lettering. Earth continuity brass plate. M8 external earth crossing terminal. M20 to M50 threaded entries. Cable glands and plugs ordered separately.



Armored cables



Type	Terminal Block 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Earth Terminal 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Copper Bar 10 x 3 mm (0.39" x 0.12") Qty.	Cable Clamp 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Continuity Shield Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries Qty.	Catalog Number
Cable U1000 RVFV — Single Cable Entries M20								
CAe1	07G1.5	7	1	5	—	M20	3	JBEA212013A01
CAe1	12G1.5	12	1	8	—	M20	6	JBEA212013A02
CAe2	19G1.5	19	1	11	—	M25	9	JBEA322013A03
CAe2	24G1.5	24	1	14	—	M25	12	JBEA322013A04
CAe2	27G1.5	27	1	15	—	M25	13	JBEA322013A05
CAe1	07G2.5	7	1	5	—	M20	3	JBEA212013A07
CAe1	12G2.5	12	1	8	—	M25	6	JBEA212013A08
CAe2	19G2.5	19	1	11	—	M25	9	JBEA322013A09
CAe2	24G2.5	24	1	14	—	M32	12	JBEA322013A10
CAe2	27G2.5	27	1	15	—	M32	13	JBEA322013A11
Cable EGFA — Single Cable Entries M20								
CAe1	07IP05	14	7	—	7	M20	7	JBEA212013A21
CAe1	07IT05	21	7	—	7	M20	7	JBEA212013A22
CAe2	12IP05	24	12	—	12	M25	12	JBEA322013A23
CAe2	12IT05	36	12	—	12	M25	12	JBEA322013A24
CAe5	27IP05	54	27	—	27	M32	27	JBEA483819A26
CAe1	07IP09	14	7	—	7	M25	7	JBEA212013A27
CAe1	07IT09	21	7	—	7	M25	7	JBEA212013A28
CAe2	12IP09	24	12	—	12	M25	12	JBEA322013A29
CAe2	12IT09	36	12	—	12	M32	12	JBEA322013A30
CAe5	27IP09	54	27	—	27	M40	27	JBEA483819A32
Cable EIFA — Single Cable Entries M20								
CAe1	07IP05	15	—	—	8	M25	7	JBEA212013A41
CAe1	07IT05	22	—	—	8	M25	7	JBEA212013A42
CAe2	12IP05	25	—	—	13	M32	12	JBEA322013A43
CAe2	12IT05	37	—	—	13	M32	12	JBEA322013A44
CAe5	27IP05	55	—	—	28	M40	27	JBEA483819A46
CAe1	07IP09	15	—	—	8	M32	7	JBEA212013A47
CAe1	07IT09	22	—	—	8	M32	7	JBEA212013A48
CAe2	12IP09	25	—	—	13	M40	12	JBEA322013A49
CAe2	12IT09	37	—	—	13	M40	12	JBEA322013A50
CAe5	27IP09	55	—	—	28	M50	27	JBEA483819A52

ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

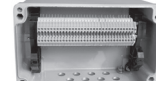
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Factory Drilled and Equipped with Terminals Ex e II Aluminum Junction Boxes for Instrumentation Applications with Lead Sheath Armored Cables

Fitted with: Horizontal beige terminal block. Copper bar with cable clamps or continuity shields. Yellow laminated plastic label with black lettering. Earth continuity brass plate. M8 external earth crossing terminal. M20 to M50 threaded entries. Cable glands and plugs ordered separately.



Armored cables with lead sheath



Type	Terminal Block 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Earth Terminal 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Copper Bar 10 x 3 mm (0.39" x 0.12") Qty.	Cable Clamp 0.5/2.5 mm ² (0.0008/0.004 in ²) Qty.	Continuity Shield Qty.	Multi-cable Cable Entry Qty. 1	Single Cable Entries Qty.	Catalog Number
U1000 RGPV — Single Cable Entries M20								
CAe1	07 x 1.5	7	1	5	—	M20	3	JBEA212013L01
CAe1	12 x 1.5	12	1	8	—	M25	6	JBEA212013L02
CAe2	19 x 1.5	19	1	11	—	M25	9	JBEA322013L03
CAe2	24 x 1.5	24	1	14	—	M32	12	JBEA322013L04
CAe2	27 x 1.5	27	1	15	—	M32	13	JBEA322013L05
CAe1	07 x 2.5	7	1	5	—	M20	3	JBEA212013L07
CAe1	12 x 2.5	12	1	8	—	M25	6	JBEA212013L08
CAe2	19 x 2.5	19	1	11	—	M32	9	JBEA322013L09
CAe2	24 x 2.5	24	1	14	—	M32	12	JBEA322013L10
CAe2	27 x 2.5	27	1	15	—	M32	13	JBEA322013L11
Cable EGPF — Single Cable Entries M20								
CAe1	07IP05	14	—	—	7	M20	7	JBEA212013L21
CAe1	07IT05	21	—	—	7	M20	7	JBEA212013L22
CAe2	12IP05	24	—	—	12	M25	12	JBEA322013L23
CAe2	12IT05	36	—	—	12	M25	12	JBEA322013L24
CAe5	27IP05	54	—	—	27	M32	27	JBEA483819L26
CAe1	07IP09	14	—	—	7	M25	7	JBEA212013L27
CAe1	07IT09	21	—	—	7	M25	7	JBEA212013L28
CAe2	12IP09	24	—	—	12	M32	12	JBEA322013L29
CAe2	12IT09	36	—	—	12	M32	12	JBEA322013L30
CAe5	27IP09	54	—	—	27	M40	27	JBEA483819L32
Cable EIPF — Single Cable Entries M20								
CAe1	07IP05	15	—	—	8	M25	7	JBEA212013L41
CAe1	07IT05	22	—	—	8	M32	7	JBEA212013L42
CAe2	12IP05	25	—	—	13	M32	12	JBEA322013L43
CAe2	12IT05	37	—	—	13	M32	12	JBEA322013L44
CAe5	27IP05	55	—	—	28	M50	27	JBEA483819L46
CAe1	07IP09	15	—	—	8	M32	7	JBEA212013L47
CAe1	07IT09	22	—	—	8	M32	7	JBEA212013L48
CAe2	12IP09	25	—	—	13	M40	12	JBEA322013L49
CAe2	12IT09	37	—	—	13	M40	12	JBEA322013L50
CAe5	27IP09	55	—	—	28	M50	27	JBEA483819L52

ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Defining maximum terminal block quantity according to power dissipation:

- Junction boxes used for instrumentation applications have very low current levels. Therefore there is no risk of overheating whatever the number of terminals inside the box.
- For applications other than instrumentation, the following tables allow you to define your junction box depending on the number of terminals and the maximum authorized current being carried.

For other terminal block configurations, please consult our drilling guide available online at: www.appleton.emerson.com

T Rating: T6		Type		
		PCe1 120 x 110 x 95 mm (4.72 x 4.33 x 3.74")	PCe2 170 x 110 x 95 mm (6.69 x 4.33 x 3.74")	PCe3 230 x 110 x 95 mm (9.10 x 4.33 x 3.74")
2.5 mm ² (0.004 in ²)	Quantity	12	22	33
	I Maximum	15 A	13 A	12 A
4 mm ² (0.006 in ²)	Quantity	10	18	28
	I Maximum	20 A	19 A	16 A
6 mm ² (0.009 in ²)	Quantity	7	14	21
	I Maximum	32 A	27 A	24 A
10 mm ² (0.016 in ²)	Quantity	4	6	8
	I Maximum	50 A	50 A	50 A

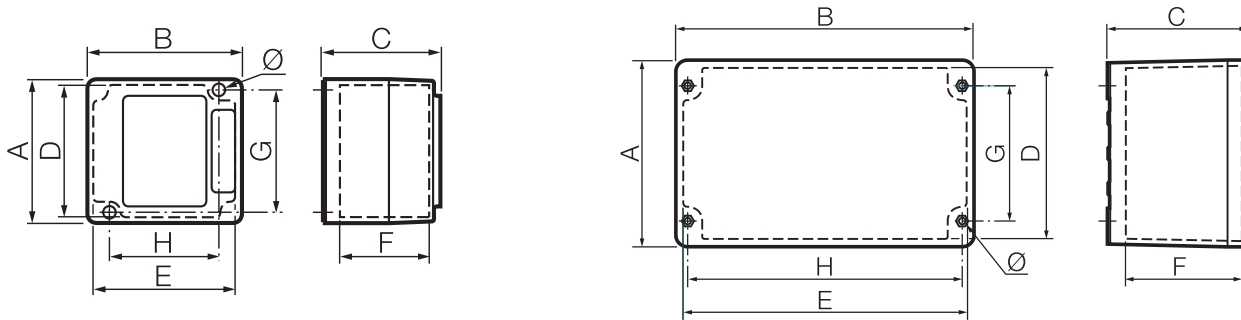
T Rating: T6 @ Ta 40 °C (104 °F) T5 @ Ta 55° C (131 °F)		Type		
		CAe1 215 x 205 x 130 mm (8.47 x 8.07 x 5.12")	CAe2 320 x 205 x 130 mm (12.60 x 8.07 x 5.12")	CAe5 480 x 380 x 190 mm (18.90 x 14.96 x 7.48")
2.5 mm ² (0.004 in ²)	Quantity	20	21	38
	I Maximum	16 A	16 A	16 A
4 mm ² (0.006 in ²)	Quantity	19	20	38
	I Maximum	20 A	20 A	20 A
6 mm ² (0.009 in ²)	Quantity	12	13	23
	I Maximum	32 A	32 A	32 A
10 mm ² (0.016 in ²)	Quantity	10	11	30
	I Maximum	40 A	40 A	32 A
16 mm ² (0.024 in ²)	Quantity	8	10	22
	I Maximum	28 A	27 A	26 A
25 mm ² (0.039 in ²)	Quantity	8	8	20
	I Maximum	67 A	73 A	60 A
35 mm ² (0.054 in ²)	Quantity	8	8	12
	I Maximum	79 A	86 A	100 A

ATX™ JBEA Series Pre-Drilled Aluminum Junction Box

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)



PCe1 to PCe3

CAe1 to CAe5

Type	External Dimensions			Internal Dimensions			Fixings		Thick	Ø
	A	B	C	D	E	F	G	H		
PCe1	110 (4.33)	120 (4.72)	95 (3.74)	100 (3.94)	110 (4.33)	70 (2.76)	94 (3.70)	84 (3.38)	20 (0.79)	5 (0.20)
PCe2	110 (4.33)	170 (6.69)	95 (3.74)	100 (3.94)	160 (6.30)	70 (2.76)	94 (3.70)	134 (5.28)	20 (0.79)	5 (0.20)
PCe3	110 (4.33)	230 (9.06)	95 (3.74)	100 (3.94)	220 (8.66)	70 (2.76)	94 (3.70)	194 (7.68)	20 (0.79)	5 (0.20)
CAe1	205 (8.07)	215 (8.46)	130 (5.12)	190 (7.48)	200 (7.87)	105 (4.13)	146 (5.75)	186 (7.32)	10 (0.39)	7 (0.28)
CAe2	205 (8.07)	320 (12.60)	130 (5.12)	190 (7.48)	305 (12.01)	105 (4.13)	146 (5.75)	290 (11.48)	10 (0.39)	7 (0.28)
CAe5	480 (18.90)	380 (14.96)	190 (7.48)	378 (14.88)	279 (10.98)	132 (5.20)	385 (15.16)	285 (11.22)	13 (0.51)	7 (0.28)

ATX™ JBEL Series Polycarbonate Junction Box

Increased Safety

Furnished complete with Terminals

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Applications

- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently such as:
 - Food processing
 - Dairy
 - Brewing
 - Other commercial facilities

Features

- Pillar type terminal block for easy connection.
- Available in two sizes:
 - 4 mm² (0.006 in²)
 - 10 mm² (0.016 in²)
- Unarmored or armored versions with earth continuity brass device.
- Operating temperature: -40 °C to +55 °C (-40 °F to +131 °F).

Standard Materials

- Enclosure: static and impact resistant polycarbonate
- Cover gasket: polyurethane
- Hardware: stainless steel

ATEX/IECEx Certifications and Compliances

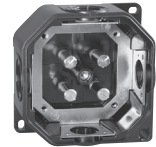
- Certification Type: BJe1
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - ATEX Certificate: LCIE 02 ATEX 6069X
 - IECEx Certificate: IECEx LCIE 19.0026X
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Certification Type: BJe2
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 99 ATEX 6003X
 - IECEx Certificate: IECEx LCIE 18.0038X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10



JBEL1 - 2.5/4 mm²



JBEL2 - 6/10 mm²



UKEX Certification

- Certification Type: BJe1
 - UKEX CML 21UKEX3186X
- Certification Type: BJe2
 - UKEX CML 21UKEX3187X

INMETRO Certifications

- Certification Type: BJe1
 - INMETRO Certificate: BVC 11.0479-X
- Certification Type: BJe2
 - INMETRO Certificate: BVC 11.0402-X

Related Products




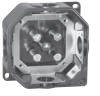
- Cable glands for use with armored and unarmored cable are available, see Fittings: Cable Glands.

ATX™ JBEL Series Polycarbonate Junction Box

Increased Safety

Furnished complete with Terminals

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Equipment	Rating (Amps)	Weight (kg (lb))	Volume (dm ³ (in ³))	Catalog Number
For Unarmored Cables 2.5/4 mm² (0.004/0.006 in²) 660 V — Certification Type: BJe1				
<i>Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm² (0.004 in²) or 2 x 4 mm² (0.004 in²) + 2 x 2.5 mm² (0.004 in²) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm² (0.004 in²)</i>				
 4 x M20 entries 4 x cable glands for unarmored cable; 5.5 to 14 mm (0.22" to 0.55") diameter	28 A/2.5 mm ² (0.004 in ²) 38 A/4 mm ² (0.006 in ²)	0.4 (0.88)	1.7 (103.74)	JBEL1N4M20G
For Armored Cables 2.5/4 mm² (0.004/0.006 in²) 660 V — Certification Type: BJe1				
<i>Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 2.5 mm² (0.004 in²) or 2 x 4 mm² (0.004 in²) + 2 x 2.5 mm² (0.004 in²) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 4 mm² (0.004 in²)</i>				
 4 x M20 entries with earth brass continuity device 2 x blanking plugs	28 A/2.5 mm ² (0.004 in ²) 38 A/4 mm ² (0.006 in ²)	0.4 (0.88)	1.7 (103.74)	JBEL1A4M20
For Unarmored Cables 6/10 mm² (0.009/0.016 in²) 690 V — Certification Type: BJe2				
<i>Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm² (0.009 in²) or 3 x 10 mm² (0.016 in²) + 4 mm² (0.004 in²) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm² (0.016 in²)</i>				
3 x M20 entries 3 x cable glands for unarmored cable; 5.5 to 14 mm (0.22" to 0.55") diameter		0.7 (1.54)	4.5 (274.60)	JBEL2N3M20G
 4 x M20 entries 4 x cable glands for unarmored cable; 5.5 to 14 mm (0.22" to 0.55") diameter	42 A/10 mm ² (0.016 in ²) 30 A/6 mm ² (0.009 in ²)	0.7 (1.54)	4.5 (274.60)	JBEL2N4M20G
3 x M25 entries 3 x cable glands for unarmored cable; 9 to 18 mm (0.35" to 0.71") diameter	18 A/4 mm ² (0.006 in ²)	0.7 (1.54)	4.5 (274.60)	JBEL2N3M25G
4 x M25 entries 4 x cable glands for unarmored cable; 9 to 18 mm (0.35" to 0.71") diameter		0.7 (1.54)	4.5 (274.60)	JBEL2N4M25G
For Armored Cables 6/10 mm² (0.009/0.016 in²) 690 V — Certification Type: BJe2				
<i>Supplied with 4 connection terminals. Maximum capacity per terminal: 4 x 6 mm² (0.009 in²) or 3 x 10 mm² (0.016 in²) + 4 mm² (0.004 in²) and 4 interconnected earth terminals. Maximum capacity per earth terminal: 1 x 10 mm² (0.016 in²)</i>				
 4 x M20 entries with earth brass continuity device. 2 x M20 blanking plugs	42 A/10 mm ² (0.016 in ²) 30 A/6 mm ² (0.009 in ²)	0.7 (1.54)	4.5 (274.60)	JBEL2A4M20
4 x M25 entries with earth brass continuity device. 2 x M25 blanking plugs	18 A/4 mm ² (0.006 in ²)	0.7 (1.54)	4.5 (274.60)	JBEL2A4M25

ATX™ JBEL Series Polycarbonate Junction Box

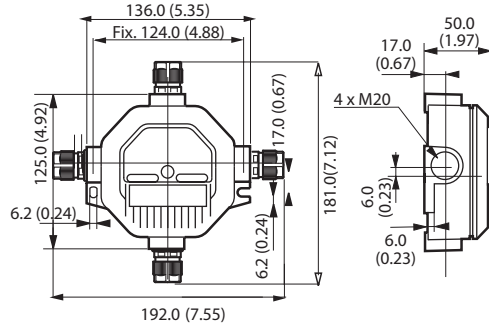
Increased Safety

Furnished complete with Terminals

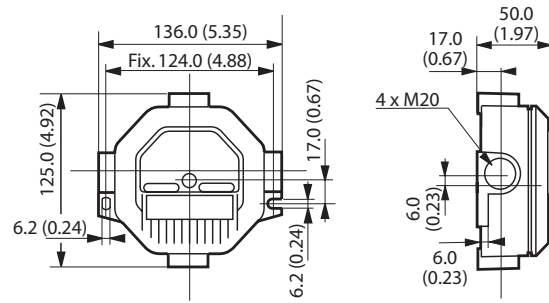
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

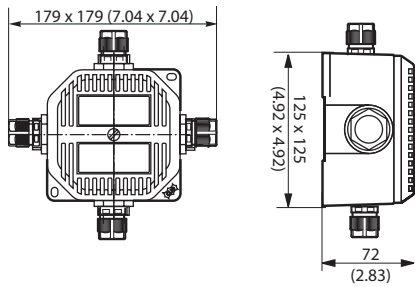
BJe1 with Cable Glands for Unarmored Cables



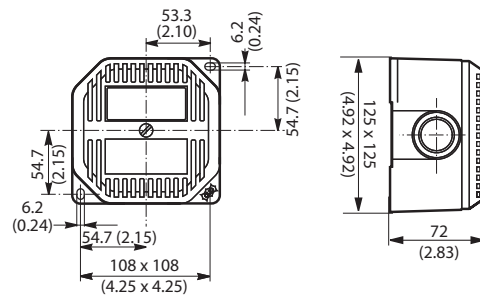
BJe1 without Cable Glands for Armored Cables



BJe2 with Cable Glands for Unarmored Cables



BJe2 without Cable Glands for Armored Cables



Enclosures and Junction Boxes

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- Designed for use in Zone 1 or 2 areas where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas where flammable dusts are present either continuously or intermittently such as:
 - Food processing
 - Dairy
 - Brewing
 - Pharmaceutical industry
 - Other commercial facilities
- JBES Series
 - Terminal junction box for electrical low voltage and instrumentation connections for use in hazardous areas.
 - Refer to technical data to define permitted number of terminal blocks and cable entries on selected junction boxes.
- ECES Series
 - Enclosure for distribution and control applications must be customized at our workshop to house a large range of components such as control units, switches, breakers, transformers, ammeters, voltmeters, contact blocks, pilot lights, control auxiliaries, handles, windows, etc.



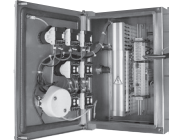
JBES Series



JBES Series



ECES Series



ECES Series

Options

- Removable gland plates.
- Nameplate.
- Factory drilled and assembled, contact your local representative for information.

ATEX/IECEx Certifications and Compliances

- Certification Type: JBES
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ia or ib IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T64 °C to T67 °C (T147.2 °F to T152.6 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate : LCIE 19ATEX 3024X
 - IECEx Certificate: IECEx LCIE 19.0031X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Certification Type: ECES
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ex II 2 Gb
 - Type of Protection: Ex eb IIC Gb
 - Dust, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ex tb IIIC Db
 - Ambient Temperature: -20 °C to +40 °C (-28 °F to +4 °F)
 - ATEX Certificate: INERIS 21ATEX0030X
 - IECEx Certificate: IECEx INE 21.0058X
 - Protection index according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

INMETRO Certifications

- Certification Type: JBES
 - INMETRO Certificate: BVC24.4266-X

Features

- Smooth, continuously welded seams.
- Available in a wide range of sizes.
- Operating temperature:
 - JBES Series: -40 °C to +55 °C (-40 °F to +131 °F)
 - ECES Series: -20 °C to +40 °C (-28 °F to +4 °F)
- Can be supplied with 1, 2, 3 or even 4 neoprene sealed gland plates for ease of cable installation.
- Hinges standard on all sizes above 370.0 mm x 260.0 mm (14.57" x 10.24").
- Poured-in-place polyurethane door gasket.
- Feed-thru earth grounding stud.
- Reversible door, opens 210 degrees, from any location top; bottom, left or right, by means of removable hinges that can be installed in any position.
- Reversible anti-vibration mounting brackets can be mounted on the top, bottom or side positions.
- Optional removable padlocking device.

Standard Materials

- Enclosure: 316L stainless steel
- Hardware: 316L stainless steel

Standard Finishes

- Natural brushed finish

Accessories

- Mounting pan
- Rail mounting
- Cam lock and key
- Door locking bracket for easy access
- Inside pocket
- Refer to technical data to define permitted number of terminals and cable entries

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Illustrated Features



Optional removable locking device. Part Number: 097209/N097209



Reversible antivibration mounting brackets, can be mounted in top, side or bottom positions.



M8 feed-thru earth/ground terminal.



Polyurethane poured in place door gasket and stainless steel captive screws.



Reversible door. Opens to 210°, top, bottom, left or right, by moving the location of the hinges



Optional removable gland plate.

Catalog Numbering Guide — JBES and ECES 316L Stainless Steel Enclosures

<p>JB</p> <p>Series: EC - ATEX/IECEx Certified Enclosure and Controls JB - ATEX/IECEx Certified Junction Box</p>	<p>E</p> <p>Protection Method: E - Increased Safety I - Intrinsic Safety</p>	<p>S</p> <p>Material: S - Stainless Steel</p>	<p>12</p> <p>Length Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.53) 11 - 1130 (44.49)</p>	<p>12</p> <p>Width Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.53)</p>	<p>09</p> <p>Depth Dimensions mm (in): 09 - 95 (3.74) 15 - 150 (5.91) 20 - 200 (7.87) 30 - 300 (11.81)</p>	<p>0</p> <p>Gland plate: 0 - None 1 - One Bottom 2 - One Top and Bottom 3 - Two Sides and Bottom 4 - All Sides</p>	<p>M</p> <p>Options: <i>(options must be listed alphabetically)</i> M - Mounting Pan # - Customized Enclosure (6 Digit number will be assigned at time of order placement.)</p>
---	---	---	--	--	---	--	---

Enclosures and Junction Boxes

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

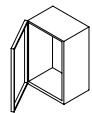
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

JBES Series — T6 -40 °C to +55 °C (-40 °F to +131 °F) — T67 °C (T152.6 °F)

Type	Dimensions L x W x D mm (in)	Hinged Door ①	Vertical Orientation Rail Length mm (in)	Horizontal Orientation Rail Length mm (in)	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Ex e II 316L Stainless Steel Junction Boxes without Gland Plate							
<i>For use only with Ex terminals (not supplied). External earth crossing terminal. (M6 for JBES10/20/30 and M8 for other boxes). Mounting pan and rails to be ordered separately.</i>							
JBES1	120 x 120 x 95 (4.72 x 4.72 x 3.74)	N	–	100.0 (3.94)	1.0 (2.20)	1.4 (85.43)	JBES1212090
JBES2	120 x 180 x 95 (4.72 x 7.09 x 3.74)	N	–	160.0 (6.30)	1.5 (3.31)	2.0 (122.05)	JBES1218090
JBES3	180 x 180 x 95 (7.09 x 7.09 x 3.74)	N	–	160.0 (6.30)	1.8 (3.97)	3.0 (183.07)	JBES1818090
JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	170.0 (6.69)	210.0 (8.27)	5.0 (11.02)	8.6 (524.80)	JBES2226150
JBES4	260 x 220 x 150 (10.24 x 8.66 x 5.91)	R	210.0 (8.27)	170.0 (6.69)	5.0 (11.02)	8.6 (524.80)	JBES2622150
JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	R	170.0 (6.69)	320.0 (12.60)	8.5 (18.74)	16.3 (994.69)	JBES2237200
JBES6	260 x 370 x 200 (10.24 x 14.57 x 7.87)	Y	210.0 (8.27)	320.0 (12.60)	9.0 (19.84)	19.3 (1177.76)	JBES2637200
JBES5	370 x 220 x 200 (14.57 x 8.66 x 7.87)	R	320.0 (12.60)	170.0 (6.69)	8.5 (18.74)	16.6 (1012.99)	JBES3722200
JBES6	370 x 260 x 200 (14.57 x 10.24 x 7.87)	Y	320.0 (12.60)	210.0 (8.27)	9.0 (19.84)	19.3 (1177.76)	JBES3726200
JBES7	370 x 370 x 200 (14.57 x 14.57 x 7.87)	Y	320.0 (12.60)	320.0 (12.60)	13.0 (28.66)	27.4 (1672.05)	JBES3737200
JBES9	370 x 560 x 200 (14.57 x 22.05 x 7.87)	Y	320.0 (12.60)	510.0 (20.08)	19.0 (19.84)	41.5 (2532.49)	JBES3756200
JBES11	370 x 750 x 200 (14.57 x 29.53 x 7.87)	Y	320.0 (12.60)	700.0 (27.56)	24.0 (52.91)	55.5 (3386.82)	JBES3775200
JBES9	560 x 370 x 200 (22.05 x 14.57 x 7.87)	Y	510.0 (20.08)	320.0 (12.60)	19.0 (19.84)	41.5 (2532.49)	JBES5637200
JBES13	560 x 560 x 200 (22.05 x 22.05 x 7.87)	Y	510.0 (20.08)	510.0 (20.08)	28.0 (61.73)	62.8 (3832.29)	JBES5656200
JBES15	560 x 750 x 200 (22.05 x 29.53 x 7.87)	Y	510.0 (20.08)	700.0 (27.56)	33.0 (72.75)	84.0 (5125.99)	JBES5675200
JBES11	750 x 370 x 200 (29.53 x 14.57 x 7.87)	Y	700.0 (27.56)	320.0 (12.60)	24.0 (52.91)	55.5 (3386.82)	JBES7537200
JBES15	750 x 560 x 200 (29.53 x 22.05 x 7.87)	Y	700.0 (27.56)	510.0 (20.08)	33.0 (72.75)	84.0 (5125.99)	JBES7556200
JBES17	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	1080.0 (42.52)	700.0 (27.56)	50.0 (110.23)	235.0 (14340.58)	JBES1175300

① N: Not Available, R: On request or separate accessories, Y: Supplied.







ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

JBES Series — T6 -40 °C to +55 °C (-40 °F to +131 °F) — T67 °C (T152.6 °F)

Type	Dimensions L x W x D mm (in)	Hinged Door ①	One Gland Plate Catalog Number	Two Gland Plates Catalog Number	Three Gland Plates Catalog Number	Four Gland Plates Catalog Number	
Ex e II 316L Stainless Steel Terminal Junction Boxes with Gland Plates 3 mm (0.12") Thick							
<i>For use only with Ex terminals (not supplied). M8 External earth crossing terminal. Mounting pan and rails to be ordered separately.</i>							
	JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2226151	JBES2226152	JBES2226153	JBES2226154
	JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	R	JBES2622151	JBES2622152	JBES2622153	JBES2622154
 One Gland Plate	JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	R	JBES2237201	JBES2237202	JBES2237203	JBES2237204
	JBES6	260 x 370 x 200 (10.24 x 14.57 x 7.87)	Y	JBES2637201	JBES2637202	JBES2637203	JBES2637204
 Two Gland Plates	JBES5	370 x 220 x 200 (14.57 x 8.66 x 7.87)	R	JBES3722201	JBES3722202	JBES3722203	JBES3722204
	JBES6	370 x 260 x 200 (14.57 x 10.24 x 7.87)	Y	JBES3726201	JBES3726202	JBES3726203	JBES3726204
 Three Gland Plates	JBES7	370 x 370 x 200 (14.57 x 14.57 x 7.87)	Y	JBES3737201	JBES3737202	JBES3737203	JBES3737204
	JBES9	370 x 560 x 200 (14.57 x 22.05 x 7.87)	Y	JBES3756201	JBES3756202	JBES3756203	JBES3756204
 Four Gland Plates	JBES11	370 x 750 x 200 (14.57 x 29.53 x 7.87)	Y	JBES3775201	JBES3775202	JBES3775203	JBES3775204
	JBES9	560 x 370 x 200 (22.05 x 14.57 x 7.87)	Y	JBES5637201	JBES5637202	JBES5637203	JBES5637204
	JBES13	560 x 560 x 200 (22.05 x 22.05 x 7.87)	Y	JBES5656201	JBES5656202	JBES5656203	JBES5656204
	JBES15	560 x 750 x 200 (22.05 x 29.53 x 7.87)	Y	JBES5675201	JBES5675202	JBES5675203	JBES5675204
	JBES11	750 x 370 x 200 (29.53 x 14.57 x 7.87)	Y	JBES7537201	JBES7537202	JBES7537203	JBES7537204
	JBES15	750 x 560 x 200 (29.53 x 22.05 x 7.87)	Y	JBES7556201	JBES7556202	JBES7556203	JBES7556204
	JBES17	1130 x 750 x 300 (44.49 x 29.53 x 11.81)	Y	JBES1175301	JBES1175302	JBES1175303	JBES1175304

① N: Not Available, R: On request or separate accessories, Y: Supplied.





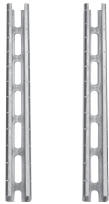
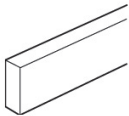
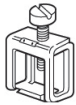
ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Enclosures and Junction Boxes

Mounting Accessories

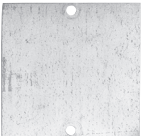




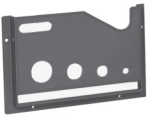

				Catalog Number	
		Enclosure Length mm (in)	Rail Length mm (in)	 Symmetrical Depth = 15 mm (0.59")	 Asymmetrical
Zinc Plated Steel Rail					
<i>For fixing onto uprights with clip nut supplied.</i>					
	Symmetrical	120 (4.72)	100 (3.93)	097246	—
		180 (7.09)	160 (6.30)	097247	—
	Asymmetrical	220 (8.66)	170 (6.69)	097240	097250
		260 (10.24)	210 (8.27)	097241	097251
		370 (14.57)	320 (12.60)	097242	097252
		560 (22.05)	510 (20.08)	097243	097253
		750 (29.53)	700 (27.56)	097244	097254
		1130 (44.49)	1080 (42.52)	097245	097255
		Enclosure Length mm (in)	Bar Length mm (in)	Catalog Number	
Zinc Plated Steel Uprights					
<i>Set of two.</i>					
		220 (8.66)	160 (6.30)	097230	
		260 (10.24)	200 (7.87)	097231	
		370 (14.57)	310 (12.20)	097232	
		560 (22.05)	500 (19.68)	097233	
		750 (29.53)	690 (27.17)	097234	
		1130 (44.49)	1070 (42.13)	097235	
Copper Bar – 12 x 4 mm (0.47 x 0.16")					
<i>Copper bar not perforated for cable clamps.</i>					
		220 (8.66)	160 (6.30)	097270	
		260 (10.24)	200 (7.87)	097271	
		370 (14.57)	310 (12.20)	097272	
		560 (22.05)	500 (19.68)	097273	
		750 (29.53)	690 (27.17)	097274	
		1130 (44.49)	1070 (42.13)	097275	
Cable Clamp for Copper Bar – 12 x 4 mm (0.47 x 0.16")					
		1.5 mm ² to 4 mm ² (0.002 in ² to 0.006 in ²) Capacity			097203
		6 mm ² to 16 mm ² (0.009 in ² to 0.025 in ²) Capacity			097204

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Mounting Accessories — Continued


	Enclosure Dimensions mm (in)		Mounting Pan Dimensions mm (in)	Catalog Number
	Height	Width		
Mounting Pan – Zinc Plated Steel				
	120 (4.72)	120 (4.72)	100 x 100 (3.93 x 3.93)	097277
	120 (4.72)	180 (7.09)	100 x 160 (3.93 x 6.30)	097278
	180 (7.09)	180 (7.09)	160 x 160 (6.30 x 6.30)	097279
	220 (8.66)	260 (10.24)	160 x 200 (6.30 x 7.87)	097280
	220 (8.66)	370 (14.57)	160 x 310 (6.30 x 12.20)	097281
	260 (10.24)	370 (14.57)	200 x 310 (7.87 x 12.20)	097282
	370 (14.57)	370 (14.57)	310 x 310 (12.20 x 21.20)	097283
	370 (14.57)	560 (22.05)	310 x 500 (12.20 x 19.68)	097284
	370 (14.57)	750 (29.53)	310 x 690 (12.20 x 27.17)	097285
	560 (22.05)	560 (22.05)	500 x 500 (19.68 x 19.68)	097286
	560 (22.05)	750 (29.53)	500 x 690 (19.68 x 27.17)	097287
	1130 (44.49)	750 (29.53)	690 x 1070 (27.17 x 42.13)	097288
Spacers for Mounting at Back of Box				
	Set of two insulated pillars for copper bar 12 x 4 mm (0.47 x 0.16").			
	Height = 100 mm (3.94")			097206
	Height = 50 mm (1.97")			097207
Conversion Kit — Door to Cover				
	Must be used to remove hinges.			
				097202
Spare Hinges				
	Set of Two			
				097201
Spare Mounting Brackets — Set of Two				
	One left and one right.			
				097200
Self Adhesive Pocket for Drawings				
	External dimensions: 260 x 165 mm (10.24 x 6.50")			
	Internal dimensions: 230 x 130 x 18 mm (9.06 x 5.12 x .071")			097263
	External dimensions: 340 x 235 mm (13.39 x 9.25")			
	Internal dimensions: 310 x 200 x 18 mm (12.20 x 7.87 x 0.71")			097264
Additional Door Padlocking Device				
	Padlock not supplied.			
				097209
Locking Bracket				
	Locks door in open position during wiring			097265

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Mounting Accessories — Continued

Enclosure Dimensions mm (in)			Gland Plate/Coupling Flange Dimensions mm (in)		Catalog Number
Enclosure Width	Height				
Spare Gland Plate					
220 (8.66)	150 (5.91)	B/D	170 x 120 (6.69 x 4.72)		JBESGP221B
260 (10.24)	150 (5.91)	A/C	250 x 120 (9.84 x 4.72)		JBESGP261A
260 (10.24)	200 (7.87)	A/C	250 x 170 (9.84 x 6.69)		JBESGP262A
260 (10.24)	200 (7.87)	B/D	210 x 170 (8.27 x 6.69)		JBESGP262B
370 (14.57)	200 (7.87)	A/C	360 x 170 (14.17 x 6.69)		JBESGP372A
370 (14.57)	200 (7.87)	B/D	320 x 170 (12.60 x 6.69)		JBESGP372B
560 (22.05)	200 (7.87)	A/C	550 x 170 (21.65 x 6.69)		JBESGP562A
560 (22.05)	200 (7.87)	B/D	510 x 170 (20.08 x 6.69)		JBESGP562B
750 (29.53)	200 (7.87)	A/C	740 x 170 (29.13 x 6.69)		JBESGP752A
750 (29.53)	200 (7.87)	B/D	700 x 170 (27.56 x 6.69)		JBESGP752B
260 (10.24)	300 (11.81)	A/C	250 x 270 (9.84 x 10.63)		JBESGP263A
370 (14.57)	300 (11.81)	A/C	360 x 270 (14.17 x 10.63)		JBESGP373A
370 (14.57)	300 (11.81)	B/D	320 x 270 (12.60 x 10.63)		JBESGP373B
560 (22.05)	300 (11.81)	A/C	550 x 270 (21.65 x 10.63)		JBESGP563A
560 (22.05)	300 (11.81)	B/D	510 x 270 (20.08 x 10.63)		JBESGP563B
750 (29.53)	300 (11.81)	A/C	740 x 270 (29.13 x 10.63)		JBESGP753A
750 (29.53)	300 (11.81)	B/D	700 x 270 (27.56 x 10.63)		JBESGP753B
Coupling Flange					
260 (10.24)	200 (7.87)	A/C	250 x 120 (9.84 x 4.72)		JBESCF262A
370 (14.57)	200 (7.87)	A/C	360 x 170 (14.17 x 6.69)		JBESCF372A
370 (14.57)	200 (7.87)	B/D	320 x 170 (12.60 x 6.69)		JBESCF372B
560 (22.05)	200 (7.87)	A/C	550 x 170 (21.65 x 6.69)		JBESCF562A
560 (22.05)	200 (7.87)	B/D	510 x 170 (20.08 x 6.69)		JBESCF562B
750 (29.53)	200 (7.87)	A/C	740 x 170 (29.13 x 6.69)		JBESCF752A
750 (29.53)	200 (7.87)	B/D	700 x 170 (27.56 x 6.69)		JBESCF752B
370 (14.57)	300 (11.81)	A/C	360 x 270 (14.17 x 10.63)		JBESCF373A
370 (14.57)	300 (11.81)	B/D	320 x 270 (12.60 x 10.63)		JBESCF373B
560 (22.05)	300 (11.81)	A/C	550 x 270 (21.65 x 10.63)		JBESCF563A
560 (22.05)	300 (11.81)	B/D	510 x 270 (20.08 x 10.63)		JBESCF563B
750 (29.53)	300 (11.81)	A/C	740 x 270 (29.13 x 10.63)		JBESCF753A
750 (29.53)	300 (11.81)	B/D	700 x 270 (27.56 x 10.63)		JBESCF753B

Enclosures and Junction Boxes



ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

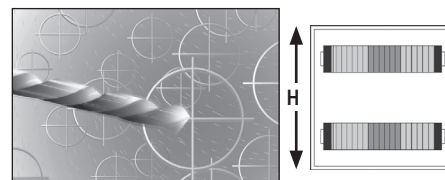
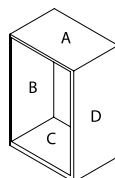
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

JBES Series for Terminal Junction Box Application Only.

Use the table shown below to select the proper size junction box based upon your requirements.
 Custom drilled and equipped boxes can be configured using our drilling guide available online at www.appleton.emerson.com.

Define maximum cable entries according to number of modules available per side.

Cable Entry Metric Thread	Number of Modules
M20	1
M25	1
M32	1
M40	2
M50	3



Type	Dimensions mm (in)			Number of Modules		Number of Modules ①		Terminal Dim. H — mm (in)
	Height	Width	Depth	A/C	B/D	A'/C'	B'/D'	
JBES1	120 (4.72)	120 (4.72)	95 (3.74)	5	5	—	—	220 (8.66)
JBES2	120 (4.72)	180 (7.09)	95 (3.74)	9	5	—	—	220 (8.66)
JBES3	180 (7.09)	180 (7.09)	95 (3.74)	9	9	—	—	220 (8.66)
JBES4	220 (8.66)	260 (10.24)	150 (5.91)	11	7	9	5	220 (8.66)
JBES4	260 (10.24)	220 (8.66)	150 (5.91)	7	11	5	9	260 (10.24)
JBES5	220 (8.66)	370 (14.57)	200 (7.87)	31	16	19	7	260 (10.24)
JBES5	370 (14.57)	220 (8.66)	200 (7.87)	16	31	7	9	370 (14.57)
JBES6	260 (10.24)	370 (14.57)	200 (7.87)	20	31	14	20	370 (14.57)
JBES6	370 (14.57)	260 (10.24)	200 (7.87)	31	20	19	10	260 (10.24)
JBES7	370 (14.57)	370 (14.57)	200 (7.87)	31	31	19	18	370 (14.57)
JBES9	370 (14.57)	560 (22.05)	200 (7.87)	31	49	19	31	560 (22.05)
JBES9	560 (22.05)	370 (14.57)	200 (7.87)	49	31	34	18	370 (14.57)
JBES11	370 (14.57)	750 (29.53)	200 (7.87)	31	66	19	47	750 (29.53)
JBES11	750 (29.53)	370 (14.57)	200 (7.87)	66	31	49	18	370 (14.57)
JBES13	560 (22.05)	560 (22.05)	200 (7.87)	49	49	34	31	560 (22.05)
JBES15	560 (22.05)	750 (29.53)	200 (7.87)	49	66	34	45	750 (29.53)
JBES15	750 (29.53)	560 (22.05)	200 (7.87)	66	49	49	31	560 (22.05)
JBES17	1130 (44.49)	750 (29.53)	300 (11.81)	102	—	82	—	1130 (44.49)

Enclosures and Junction Boxes

① Enclosure with gland plate.

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm ² (in ²)	Rated Voltage	T6 -40 °C to +55 °C (-40 °F to +131 °F)							
					JBES1		JBES2		JBES3		JBES4	
					Imax 49%	Imax 49%	Imax 47%	Imax 59%	Imax 47%	Imax 47%	Imax 59%	Imax 59%
					Pmax: 1.24W	Pmax: 2.82W	Pmax: 3.88W	Pmax: 3.88W	Pmax: 7.51W	Pmax: 7.51W		
					Maximum Current (A)	Maximum Current (A)	Maximum Current (A)	Maximum Current (A)	Maximum Current (A)	Maximum Current (A)	Maximum Current (A)	Maximum Current (A)
					Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	7	5	7	11	7	15	8	15
	Weidmuller	WDU2.5	2.5 (0.0039)	690V	11	5	11	10	11	13	14	12
	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	10	4	10	8	10	11	12	11
	Phoenix	UT2.5	2.5 (0.0039)	690V	10	6	10	13	9	17	12	16
	Phoenix	PT2.5	2.5 (0.0039)	550V	9	6	9	12	8	17	11	17
2.5	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	10	6	10	12	9	16	12	16
	Wago	WAGO 2002	2.5 (0.0039)	550V	10	4	10	8	9	11	12	11
	Wago	WAGO2202	2.5 (0.0039)	550V	10	4	10	9	10	12	12	12
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	9	4	9	10	9	13	11	14
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	11	3	11	7	11	9	14	9
	Weidmuller	WDU4	4 (0.0062)	690V	15	4	15	8	15	11	18	11
	Weidmuller	ZDU4	4 (0.0062)	550V	13	3	13	7	13	10	16	10
4	Phoenix	UT4	4 (0.0062)	690V	14	5	14	10	14	13	17	13
	Weidmuller	A2C4	4 (0.0062)	550V	13	3	13	7	13	10	16	10
	Weidmuller	AKZ4	4 (0.0062)	275V	15	2	15	5	15	7	18	8
	Weidmuller	WDU6	6 (0.0093)	690V	20	4	10	8	19	10	24	10
6	Weidmuller	ZDU6	6 (0.0093)	550V	19	2	19	5	18	7	23	7
	Phoenix	UT6	6 (0.0093)	690V	19	4	19	8	18	11	23	10
	Weidmuller	A2C6	6 (0.0093)	550V	18	2	10	5	17	8	21	8
	Weidmuller	WDU10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	26	8	33	8
10	Weidmuller	ZDU10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	23	6	30	6
	Phoenix	UT10	10 (0.0155)	690V	N/A	N/A	N/A	N/A	25	9	31	9
	Weidmuller	WDU6	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Phoenix	UT16	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller	ZDU16	16 (0.0248)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Weidmuller	WDU35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	Weidmuller	ZDU35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Phoenix	UT35	35 (0.0543)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	Weidmuller	WDU50N	50 (0.0775)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	Weidmuller	WDU70N	70 (0.1085)	690V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Enclosures and Junction Boxes

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

					T6 -40 °C to +55 °C (-40 °F to +131 °F)							
					JBES5		JBES6		JBES7		JBES9	
					Imax 54%		Imax 55%		Imax 48%		Imax: 50%	
					Pmax: 12.54W		Pmax: 13.49W		Pmax: 17.13W		Pmax: 22.64W	
Terminal Cross Section	Manufacturer	Type	Wire Cross Section mm² (in²)	Rated Voltage	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity	Maximun Current (A)	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	8	26	8	26	7	40	7	41
	Weidmuller	WDU2.5	2.5 (0.0039)	690V	12	20	13	20	11	30	12	30
2.5	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	11	19	12	19	10	29	11	30
	Phoenix	UT2.5	2.5 (0.0039)	690V	11	26	11	26	10	40	10	39
	Phoenix	PT2.5	2.5 (0.0039)	550V	10	28	10	28	9	43	9	44
	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	11	26	11	26	10	39	10	39
	Wago	WAGO 2002	2.5 (0.0039)	550V	11	20	11	20	10	31	10	32
	Wago	WAGO2202	2.5 (0.0039)	550V	11	20	12	20	10	31	11	32
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	10	23	11	23	9	36	10	37
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	12	16	13	16	11	25	12	25
4	Weidmuller	WDU4	4 (0.0062)	690V	17	18	17	18	15	27	16	27
	Weidmuller	ZDU4	4 (0.0062)	550V	15	18	15	18	13	28	14	29
	Phoenix	UT4	4 (0.0062)	690V	16	20	16	20	14	31	15	31
	Weidmuller	A2C4	4 (0.0062)	550V	15	18	15	18	13	28	14	29
	Weidmuller	AKZ4	4 (0.0062)	275V	17	13	17	13	15	21	16	22
6	Weidmuller	WDU6	6 (0.0093)	690V	22	16	22	16	19	25	20	24
	Weidmuller	ZDU6	6 (0.0093)	550V	21	13	21	13	18	20	19	21
	Phoenix	UT6	6 (0.0093)	690V	21	17	22	17	19	26	20	25
	Weidmuller	A2C6	6 (0.0093)	550V	19	14	20	14	17	22	18	23
10	Weidmuller	WDU10	10 (0.0155)	690V	30	13	31	13	27	20	28	20
	Weidmuller	ZDU10	10 (0.0155)	690V	27	12	28	12	24	18	25	19
	Phoenix	UT10	10 (0.0155)	690V	29	15	29	15	25	22	27	23
16	Weidmuller	WDU6	16 (0.0248)	690V	41	11	41	11	36	17	38	17
	Phoenix	UT16	16 (0.0248)	690V	39	11	40	12	35	18	36	18
	Weidmuller	ZDU16	16 (0.0248)	690V	36	18	37	18	32	27	34	26
35	Weidmuller	WDU35	35 (0.0543)	690V	62	9	63	9	55	14	57	14
	Weidmuller	ZDU35	35 (0.0543)	690V	59	7	60	7	52	11	55	12
	Phoenix	UT35	35 (0.0543)	690V	66	9	67	9	59	13	61	14
50	Weidmuller	WDU50N	50 (0.0775)	690V	68	8	69	8	60	13	63	14
70	Weidmuller	WDU70N	70 (0.1085)	690V	99	4	101	5	88	7	92	8
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	119	4	121	4	106	6	110	7

Enclosures and Junction Boxes

ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Defining maximum terminal block quantity according to power dissipation:

T6 -40 °C to +55 °C (-40 °F to +131 °F)												
JBES11 JBES13 JBES15 JBES17												
Imax 49% Imax 43% Imax 45% Imax: 50%												
Pmax: 26.03 W Pmax: 38.13 Pmax: 47.83 W Pmax: 90.23 W												
Terminal Cross Section	Manufacturer	Type	Wire Cross Section (mm²)	Rated Voltage	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity	Maximum Current (A)	Terminals Maximum Quantity
1.5	Weidmuller	A2C1.5	1.5 (0.0023)	550V	7	41	6	82	6	82	6	107
	Weidmuller	WDU2.5	2.5 (0.0039)	690V	11	30	10	60	10	59	11	75
	Weidmuller	ZDU2.5	2.5 (0.0039)	550V	10	31	9	60	9	62	10	81
	Phoenix	UT2.5	2.5 (0.0039)	690V	10	39	9	78	9	77	9	98
	Phoenix	PT2.5	2.5 (0.0039)	550V	9	44	8	88	8	87	8	113
2.5	Phoenix	MBK3/E-Z	2.5 (0.0039)	275V	10	38	9	77	9	76	9	97
	Wago	WAGO 2002	2.5 (0.0039)	550V	10	33	9	65	9	66	9	87
	Wago	WAGO2202	2.5 (0.0039)	550V	10	32	9	64	9	64	10	83
	Weidmuller	A2C2.5	2.5 (0.0039)	550V	9	37	8	74	9	75	9	98
	Weidmuller	AKZ2.5	2.5 (0.0039)	220V	11	26	10	52	10	52	11	68
	Weidmuller	WDU4	4 (0.0062)	690V	15	26	13	53	14	52	14	67
	Weidmuller	ZDU4	4 (0.0062)	550V	13	29	12	58	12	59	12	78
4	Phoenix	UT4	4 (0.0062)	690V	14	30	12	61	13	60	13	76
	Weidmuller	A2C4	4 (0.0062)	550V	13	29	12	58	12	59	12	78
	Weidmuller	AKZ4	4 (0.0062)	275V	15	22	13	45	14	45	14	60
	Weidmuller	WDU6	6 (0.0093)	690V	20	24	17	49	18	48	18	61
6	Weidmuller	ZDU6	6 (0.0093)	550V	19	22	16	43	17	44	17	59
	Phoenix	UT6	6 (0.0093)	690V	19	25	17	51	18	50	18	64
	Weidmuller	A2C6	6 (0.0093)	550V	18	24	15	48	16	49	17	66
	Weidmuller	WDU10	10 (0.0155)	690V	27	20	24	41	25	40	26	52
10	Weidmuller	ZDU10	10 (0.0155)	690V	24	20	21	40	22	41	23	56
	Phoenix	UT10	10 (0.0155)	690V	26	22	23	45	24	45	24	58
	Weidmuller	WDU6	16 (0.0248)	690V	37	17	32	34	34	34	34	45
16	Phoenix	UT16	16 (0.0248)	690V	36	18	31	37	33	37	33	48
	Weidmuller	ZDU16	16 (0.0248)	690V	33	25	29	51	30	50	31	62
	Weidmuller	WDU35	35 (0.0543)	690V	56	15	49	30	51	30	52	40
35	Weidmuller	ZDU35	35 (0.0543)	690V	53	13	47	25	49	26	50	37
	Phoenix	UT35	35 (0.0543)	690V	60	14	52	28	55	28	56	37
50	Weidmuller	WDU50N	50 (0.0775)	690V	61	15	54	30	56	31	57	43
70	Weidmuller	WDU70N	70 (0.1085)	690V	90	9	79	17	82	18	84	26
120	Weidmuller	WDU95N/120N	95 (0.1473)	880V	108	7	95	15	99	16	101	23

Enclosures and Junction Boxes

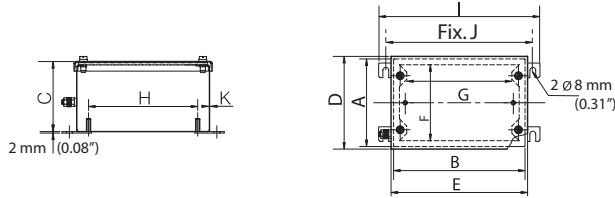
ATX™ JBES and ECES Series 316L Stainless Steel Enclosures

Increased Safety

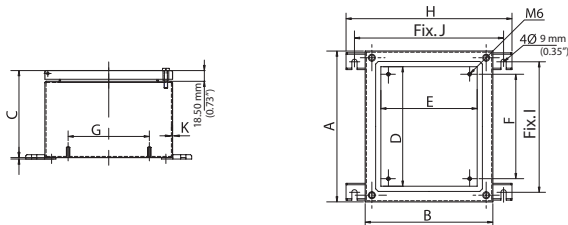
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Dimensions in Millimeters (Inches)

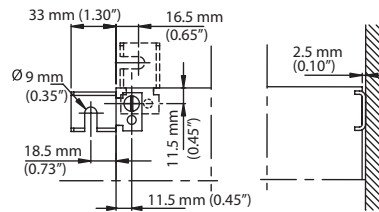
Box 95 (3.74) Depth



Box 200 (7.87) or 300 (11.81) Depth



Mounting Bracket



L x W x D mm (in)	A	B	C	D	E	F	G	H	I	J	K
Box Depth 95 (3.74)											
120 x 120 x 95 (4.72 x 4.72 x 3.74)	120 (4.72)	120 (4.72)	95 (3.74)	127 (5.00)	127 (5.00)	104 (4.09)	84 (3.31)	88 (3.46)	160 (6.30)	140 (5.51)	1.5 (0.06)
120 x 180 x 95 (4.72 x 7.09 x 3.74)	120 (4.72)	180 (7.09)	95 (3.74)	127 (5.00)	187 (7.36)	104 (4.09)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
180 x 180 x 95 (7.06 x 7.09 x 3.74)	180 (7.09)	180 (7.09)	95 (3.74)	187 (7.36)	187 (7.36)	164 (6.47)	144 (5.67)	148 (5.83)	220 (8.66)	200 (7.87)	1.5 (0.06)
Box Depth 200 (7.87)											
220 x 370 x 200 (8.66 x 14.57 x 7.87)	220 (8.66)	370 (14.57)	200 (7.87)	166 (6.54)	316 (12.44)	140 (5.51)	290 (11.42)	436 (17.17)	185 (7.28)	407 (16.02)	1.5 (0.06)
370 x 260 x 200 (14.57 x 10.24 x 7.87)	370 (14.57)	260 (10.24)	200 (7.87)	316 (12.44)	206 (8.11)	290 (11.42)	180 (7.09)	326 (12.83)	335 (13.19)	297 (11.69)	1.5 (0.06)
370 x 370 x 200 (14.57 x 14.57 x 7.87)	370 (14.57)	370 (14.57)	200 (7.87)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 200 (22.05 x 14.57 x 7.87)	560 (22.05)	370 (14.57)	200 (7.87)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 200 (29.53 x 14.57 x 7.87)	750 (29.53)	370 (14.57)	200 (7.87)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 200 (22.05 x 22.05 x 7.87)	560 (22.05)	560 (22.05)	200 (7.87)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 200 (29.53 x 22.05 x 7.87)	750 (29.53)	560 (22.05)	200 (7.87)	696 (24.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
Box Depth 300 (11.81)											
370 x 370 x 300 (14.57 x 14.57 x 11.81)	370 (14.57)	370 (14.57)	300 (11.81)	316 (12.44)	316 (12.44)	290 (11.42)	290 (11.42)	436 (17.17)	335 (13.19)	407 (16.02)	2 (0.08)
560 x 370 x 300 (22.05 x 14.57 x 11.81)	560 (22.05)	370 (14.57)	300 (11.81)	506 (19.92)	316 (12.44)	480 (18.90)	290 (11.42)	436 (17.17)	525 (20.67)	407 (16.02)	2 (0.08)
750 x 370 x 300 (29.53 x 14.57 x 11.81)	750 (29.53)	370 (14.57)	300 (11.81)	695 (27.36)	316 (12.44)	670 (26.38)	290 (11.42)	436 (17.17)	715 (28.15)	407 (16.02)	2 (0.08)
560 x 560 x 300 (22.05 x 22.05 x 11.81)	560 (22.05)	560 (22.05)	300 (11.81)	506 (19.92)	506 (19.92)	480 (18.90)	480 (18.90)	626 (24.65)	525 (20.67)	597 (23.50)	2 (0.08)
750 x 560 x 300 (29.53 x 22.05 x 11.81)	750 (29.53)	560 (22.05)	300 (11.81)	696 (24.40)	506 (19.92)	670 (26.38)	480 (18.90)	626 (24.65)	715 (28.15)	597 (23.50)	2 (0.08)
1130 x 750 x 300 (44.49 x 29.53 x 11.81)	1130 (44.49)	750 (29.53)	300 (11.81)	1076 (42.36)	506 (19.92)	1050 (41.34)	670 (26.38)	816 (32.13)	1095 (43.11)	787 (30.98)	2 (0.08)

Enclosures and Junction Boxes

ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Applications

- Terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Refineries
 - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Pharmaceutical industry
 - Silos and other facilities

Features

- Smooth, continuously welded seams.
- Hinges supplied on all boxes from 370 mm x 260 mm (14.57" x 10.24") sizes.
- Poured-in-place polyurethane door gasket.
- Earth crossing terminal.
- Factory drilled and equipped.

Standard Material

- Enclosure: 316L chrome plated molybdenum stainless steel with natural burnished finish
- Hardware: 316L stainless steel

Options

- For use with equipment other than Ex terminal blocks, see ECES series enclosures and controls.

ATEX/IECEx Certifications and Compliances

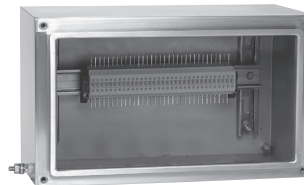
- Certification Type: JBES
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex eb ia IIC, Ex eb ib IIC, Ex ia or ib IIC Gb
 - Temperature Class: T6
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T64 °C to T67 °C (T147 °F to T152 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 19 ATEX 3024X
 - IECEx Certificate: IECEx LCIE 19.0031X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

INMETRO Certifications

- Certification Type: JBES
 - INMETRO Certificate: BVC24.4266-X



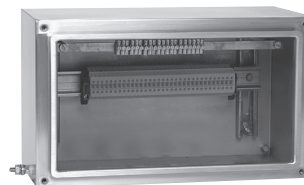
JBES1 — Without Terminals



JBES5 — Equipped with Terminals



JBES5 — Equipped with Terminals



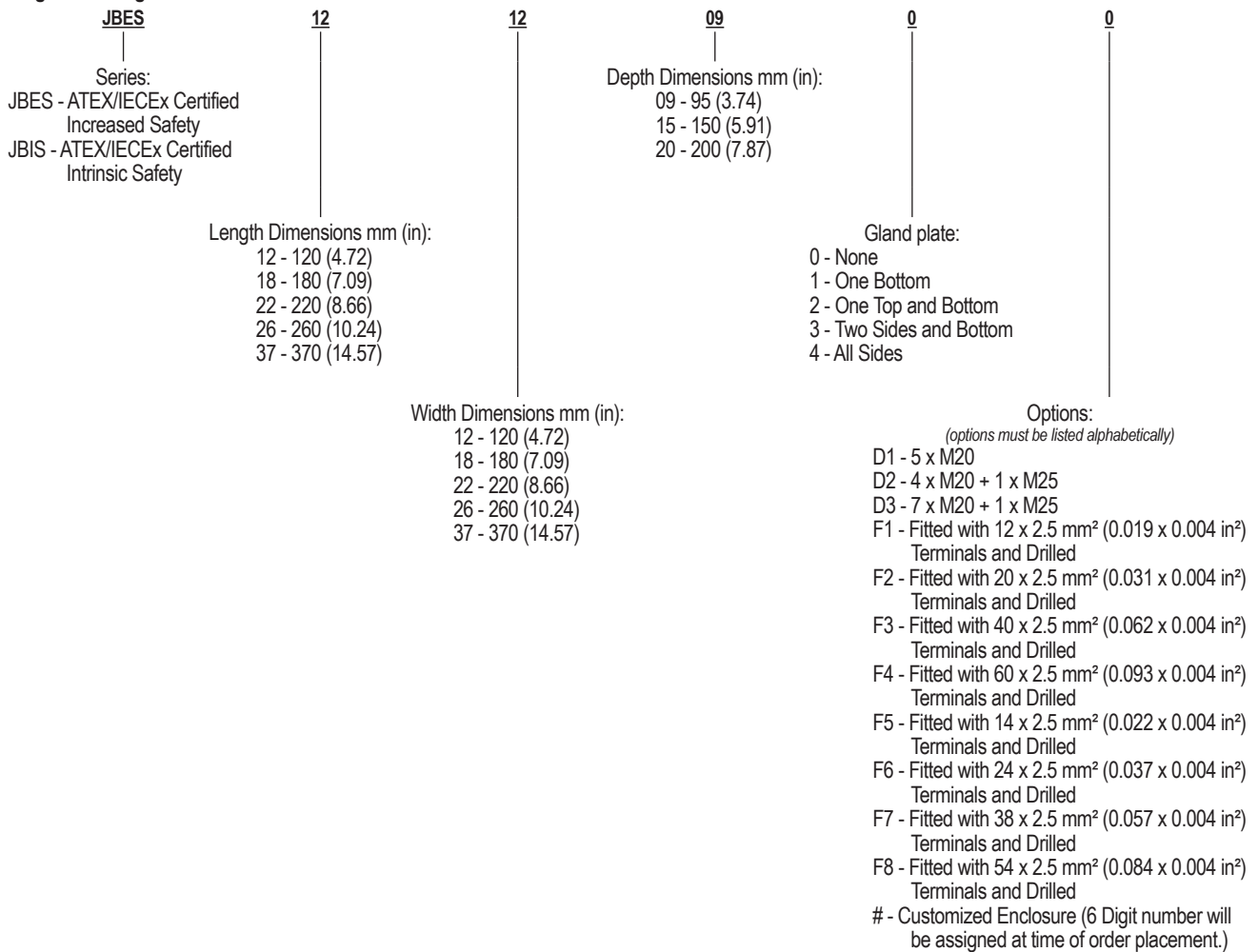
JBES5 — Equipped with Terminals

ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: INMETRO Certified

Catalog Numbering Guide — JBES Pre-Drilled Stainless Steel Junction Boxes



Enclosures and Junction Boxes

Maximum Rail Arrangement According to Physical Dimensions

Model	Catalog Number	Maximum Voltage	T6 +55 °C (+131 °F)		Maximum Current	Dissipated Power	Dust T	Cable T
			WDU 2.5 mm ² (0.004 in ²)	Terminal Quantity				
JBES2	JBES1812090F1	275 V	12		3A	0.9 W	+67 °C (+152.6 °F)	+75 °C (+167 °F)
	JBES2622150F2		20					
JBES4	JBES2226150F5	275 V	14		3A	1.6 W	+67 °C (+152.6 °F)	+75 °C (+167 °F)
	JBES2226150F6		24					
JBES5	JBES3722200F3	275 V	40		3A	5.9 W	+67 °C (+152.6 °F)	+75 °C (+167 °F)
	JBES2237200F7		38					
JBES6	JBES2237200F8	275 V	54		3A	8.0 W	+67 °C (+152.6 °F)	+75 °C (+167 °F)
	JBES3726200F4		60					

ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

Increased Safety

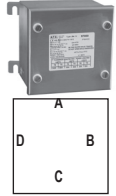
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

Enclosures and Junction Boxes

Type	Dimensions L x W x D mm (in)	Rail Length Capacity mm (in)	Clearance Holes Per Side				Weight kg (lb)	Volume dm³ (in³)	Catalog Number
			A	B	C	D			

Factory Drilled Ex eb IIC 316L Stainless Steel Junction Boxes Fitted with:

One horizontal symmetrical zinc plated rail. For use only with Ex terminals (not supplied). M6 external earth crossing terminal.

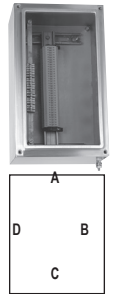


JBES1	120 x 120 x 95 (4.72 x 4.72 x 3.74)	100 (3.94)	1 x M20	1 x M20	2 x M20	1 x M20	1.0 (2.20)	1.4 (85.43)	JBES1212090D1
JBES2	120 x 180 x 95 (4.72 x 7.09 x 3.74)	160 (6.30)	-	1 x M20	2 x M20 1 x M25	1 x M20	1.5 (3.31)	2.0 (122.05)	JBES1218090D2
JBES2	120 x 180 x 95 (4.72 x 7.09 x 3.74)	160 (6.30)	-	2 x M20	3 x M20 1 x M25	2 x M20	1.5 (3.31)	2.0 (122.05)	JBES1218090D3

Type	Dimensions L x W x D mm (in)	Terminals 2.5 mm² (0.0039 in²)	Insulated Connectors	Clearance Holes Per Side			Weight kg (lb)	Volume dm³ (in³)	Catalog Number
				B	C	D			

Factory Drilled and Equipped with Terminals Ex eb IIC 316L Stainless Steel Instrumentation Junction Boxes Fitted with:

Vertical beige Ex eb terminal block. Insulated copper bar with connectors. White laminated plastic tag with black lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.



JBES2	180 x 120 x 95 (7.09 x 4.72 x 3.74)	12 (6 Pairs)	8	3 x M20	1 x M25 1 x M20	3 x M20	2.5 (5.51)	2.0 (122.05)	JBES1812090F1
JBES4	260 x 220 x 150 (10.24 x 8.66 x 5.91)	20 (10 Pairs)	12	5 x M20	1 x M32 1 x M20	5 x M20	4.0 (8.82)	8.6 (524.80)	JBES2622150F2
JBES5	370 x 220 x 200 (14.57 x 8.66 x 7.87)	40 (20 Pairs)	22	10 x M20	1 x M40 1 x M20	10 x M20	9.0 (19.84)	16.3 (994.69)	JBES372220F3
JBES6	370 x 260 x 200 (14.57 x 10.24 x 7.87)	60 (30 pairs)	32	15 x M20	1 x M50 1 x M20	15 x M20	24.25 (11.0)	19.3 (1177.76)	JBES3726200F4

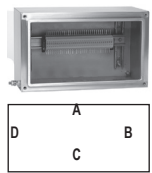
Ex ia IIC Version: Replace Third Digit "E" with "I" (Example: JBES1812090F1 becomes JBIS1812090F1) Fitted with:

Vertical blue terminal block. Insulated copper bar with connectors. Blue laminated plastic tag with white lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.

Type	Dimensions L x W x D mm (in)	Terminals 2.5 mm² (0.0039 in²)	Continuity Shield	Clearance Holes Per Side		Weight kg (lb)	Volume dm³ (in³)	Catalog Number
				C				

Factory Drilled and Equipped with Terminals Ex eb IIC 316L Stainless Steel Instrumentation Junction Boxes Fitted with:

Horizontal beige Ex eb terminal block. Continuity shield. White laminated plastic tag with black lettering. M8 External earth crossing terminal. Cable glands and plugs to be ordered separately.



JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	14 (7 Pairs)	7	1 x M25	7 x M20		4.0 (8.82)	8.6 (524.80)	JBES2226150F5
JBES4	220 x 260 x 150 (8.66 x 10.24 x 5.91)	24 (12 pairs)	12	1 x M32	12 x M20		4.0 (8.82)	8.6 (524.80)	JBES2226150F6
JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	38 (19 pairs)	19	1 x M32	19 x M20		9.0 (19.84)	16.3 (994.69)	JBES2237200F7
JBES5	220 x 370 x 200 (8.66 x 14.57 x 7.87)	54 (27 pairs)	27	1 x M40	27 x M20		9.0 (19.84)	16.3 (994.69)	JBES2237200F8

Ex ia IIC Version: Replace Third Digit "E" with "I" (Example: JBES2226150F5 becomes JBIS2226150F5) Fitted with:

Horizontal blue terminal block. Continuity shield. Blue laminated plastic tag with white lettering. M8 external earth crossing terminal. Cable glands and plugs to be ordered separately.

ATX™ JBES Series Pre-Drilled 316L Stainless Steel Junction Boxes

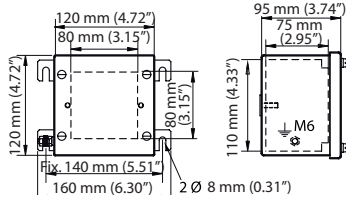
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: INMETRO Certified

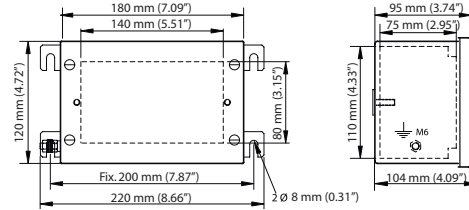
Dimensions in Millimeters (Inches)

Factory Drilled without Terminal Block (DIN rail supplied)

JBES1

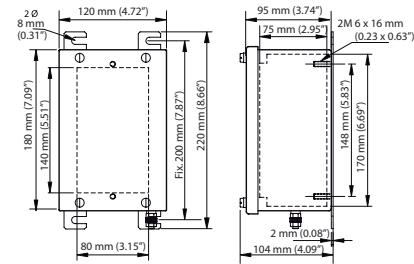


JBES2

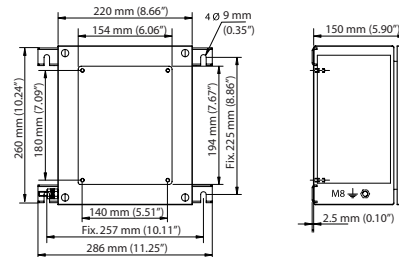


Factory Drilled and Equipped with Vertical Terminal Block

JBES2

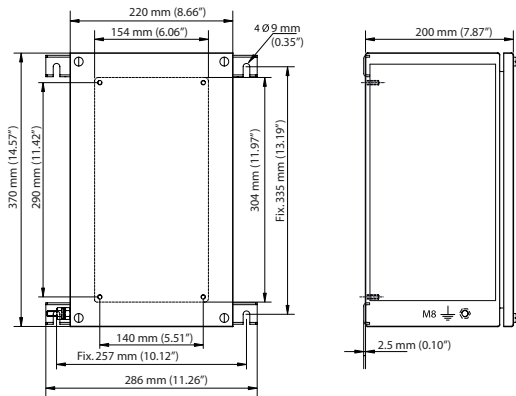


JBES4

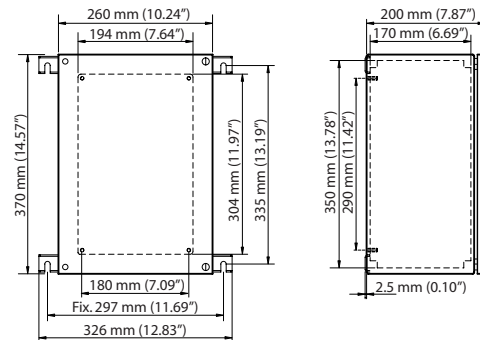


Factory Drilled and Equipped with Vertical Terminal Block

JBES5

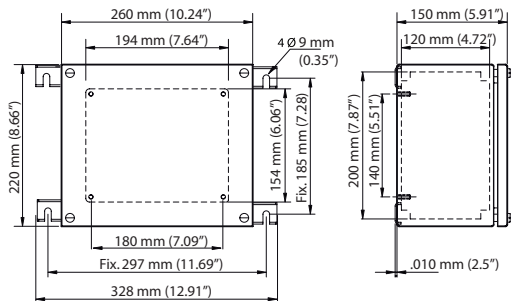


JBES6

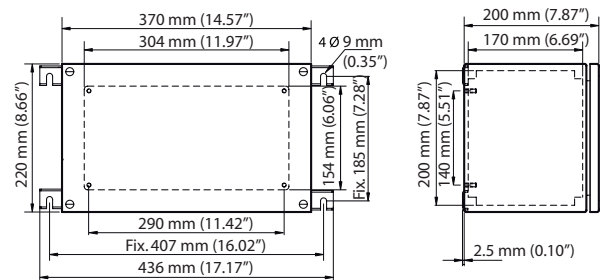


Factory Drilled and Equipped with Horizontal Terminal Block

JBES4



JBES5



Enclosures and Junction Boxes

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Terminal junction box for electrical low voltage and instrumentation connections for use in hazardous areas
- Designed for use in Zone 1 or Zone 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Other industrial process facilities
- Ideal for wet or corrosive atmospheres.
- Designed for use in Zone 21 or Zone 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Pharmaceutical industry
 - Silos and other facilities

Features

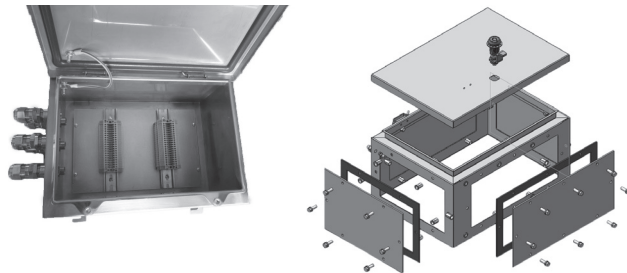
- High IP66 rating allows the enclosure to be installed in either indoor or outdoor environments where protection against dirt, water and moisture is required
- Weld joint is smooth and continuous.
- Enclosures are available in a wide range of sizes.
- The enclosure and cover are made of 304 or 316L stainless steel. Material thickness of 1.2 mm (0.05 in), 1.5 mm (0.06 in) and 2.0 mm (0.08 in) are available upon request to meet customers' requirements.
- Hinges standard on all sizes above 220 mm (8.66 in) (H) x 180 mm (7.08 in) (W).
- Optional cam lock is stainless steel for excellent corrosion resistance.
- For enclosure sizes 220 mm (8.66 in) (H) x 260 mm (10.24 in) (W) and above, side cable gland plates are available as an option.
- The cable gland plate is made of 3 mm (0.12 in) thick 304 or 316L stainless steel and supplied with self-adhesive silicon gasket.
- The sealing strip is made of PUR materials without breakpoints, having superior IP rating (IP66), superb recovery and sealing performance. Silicon foaming gasket is optional.
- The stainless steel double-headed earth studs provide integrated internal and external access for reliable protection. Earth studs are located at the side of box for easy and quick connection.
- 2 to 4 anti-vibration mounting brackets can be mounted on the top, bottom or side positions.
- Increased safety certified terminals or copper busbar can be installed horizontally or vertically.
- Optional mounting plate available in zinc plated steel, 304 or 316L stainless steel.
- The maximum voltage is 11 kV, supplied with copper busbar.
- The maximum angle of opening door is 120°.

Standard Material

- Enclosure: 304 or 316L stainless steel, satin-finished after machining to ensure smooth surface
- Hardware: 304 or 316L stainless steel

Accessories

- Mounting plate
- Rail mounting
- Padlocking device
- Inside pocket



- Refer to technical data to define permitted number of terminals and cable entries

Options

- Enclosure finish: electropolished
- Removable gland plate thickness: 3 mm (0.12 in)
- Removable gland plate material: 304 or 316L stainless steel.
- Mounting plate material: zinc plated steel or 304/316L stainless steel.
- Cam lock (optional) material: stainless steel - supplied with 1 key.
- Cam lock key material: zinc plated steel.
- Machining foam gasket on the cover: PUR or silicon.

ATEX/IECEx Certifications and Compliances

- Gas (Zone 1 and Zone 2)
 - Conforming to directive 2014/34/EU: II 2G
 - Type of protection: Ex eb IIC T5/T6 Gb, Ex eb ia IIC T5/T6 Gb, Ex ia IIC T5/T6 Ga
 - Temperature class: T6 to T5
- Dust (Zone 21 and Zone 22)
- Conforming to directive 2014/34/EU: II 2D
 - Type of protection: Ex tb IIIC T80°C/T95°C Db IP66
 - Surface temperature: T80°C to T95°C
- Ambient temperature:
 - PUR or silicon gasket : -35 °C~+40 °C/+55 °C (-31 °F~+104 °F/+131 °F)
 - Silicon gasket : -55 °C~+40 °C/+55 °C/+70 °C (-67 °F~+104 °F/+131 °F/+158 °F)
- Certificat ATEX : **CE**2460 ExVeritas 17 ATEX 0278X, **CE**2460 ExVeritas 17 ATEX 0279U, **CE**2804 ExVeritas 17 ATEX 0278X, **CE**2804 ExVeritas 17 ATEX 0279U
- IECEx certificate: IECEx EXV 17.0014X, IECEx EXV 17.0015U
- Ingress protection: According to EN/IEC 60529: IP66
- Impact resistance (shock): IK10

ASSE Series Stainless Steel Enclosures

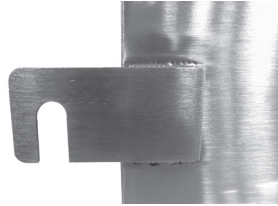
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Illustrated Features



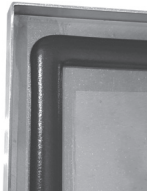
Optional cam lock and key



Mounting brackets welded on top, side or bottom positions



Earth/ground terminal from M6 to M10



Polyurethane poured-in-place door gasket



Support for DIN rail without mounting plate



Optional removable gland plate

Enclosures and Junction Boxes

Catalog Numbering Guide — ASSE Series Stainless Steel Enclosures

- The hinge and cam lock type is provided for the box with specification of 220 mm (8.66 in) (H) x 180 mm (7.08 in) (W) or above for options.
- The cable gland plate is provided for the box with specification of 220 mm (8.66 in) (H) x 260 mm (10.24 in) (W) or above for options.
- The Silicon foaming gasket can meet Ambient Temperature from -55 °C to +70 °C (-67 °F to +158 °F).

<p>ASSE</p> <p>Series: ASSE - Increased Safety Junction Box and Enclosure</p>	<p>26</p> <p>Height Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.53) 10 - 1000 (39.37) 12 - 1200 (47.24) 15 - 1500.0 (59.05)</p>	<p>22</p> <p>Width Dimensions mm (in): 12 - 120 (4.72) 18 - 180 (7.09) 22 - 220 (8.66) 26 - 260 (10.24) 37 - 370 (14.57) 56 - 560 (22.05) 75 - 750 (29.53) 80 - 800 (31.50) 97 - 970 (38.49)</p>	<p>15</p> <p>Depth Dimensions mm (in): 95 - 95 (3.74) 15 - 150 (5.91) 20 - 200 (7.87) 25 - 250 (9.84) 30 - 300 (11.81) 35 - 350 (13.78) 40 - 400 (15.75) 50 - 500.0 (19.68)</p>	<p>4</p> <p>Material: 4 - SS 304 6 - SS 316L</p>	<p>0</p> <p>Removable Gland Plate: 0 - None 1 - One Bottom or One Top 2 - One Bottom and One Top or One Left and One Right 3 - One Left, One Right and One Bottom or One Top 4 - All Sides 5 - Others</p>	<p>B</p> <p>Cover Type: B - Bolt Only H - Hinge and Bolt L - Cam Lock and Hinge</p>
--	--	---	--	---	--	--

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Enclosure Information — Dimensions in Millimeters (Inches)

Dimensions (HxWxD)	Cover Type				Material Thickness			Catalog Number
	Bolt	Hinge	Cam Lock	Gland Plate	Cover	Enclosure	Gland Plate	
120x120x95/150 (4.72x4.72x3.74/5.96)	X	—	—	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE121295/15xxx
120x180x95/150 (4.72x7.01x3.74/5.96)	X	—	—	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE121895/15xxx
180x120x95/150 (7.01x4.72x3.74/5.96)	X	—	—	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE181295/15xxx
180x180x95/150 (7.01x7.01 3.74/5.96)	X	—	—	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE181895/15xxx
180x220x95/150 (7.01x8.66x3.74/5.96)	X	X	X	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE182295/15xxx
220x180x95/150 (8.66x7.01x3.74/5.96)	X	X	X	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE221895/15xxx
220x220x150/200/300 (8.66x8.66x5.96/7.87/11.81)	X	X	X	—	≥1.2 (0.05)	≥1.2 (0.05)	—	ASSE222215/20/30xxx
220x260x150/200/300 (8.66x10.24x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE222615/20/30xxx
220x370x150/200/300 (8.66x14.57x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE223715/20/30xxx
260x220x150/200/300 (10.24x8.66x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE262215/20/30xxx
260x260x150/200/300 (10.24x10.24x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE262615/20/30xxx
260x370x150/200/300 (10.24x14.57x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE263715/20/30xxx
260x560x150/200/300 (10.24x22.05x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE265615/20/30xxx
260x750x150/200/300 (10.24x29.53x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE267515/20/30xxx
330x370x150/230x300 (12.99x14.57x5.96/9.06/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE333715/23/30xxx
330x560x150/230x300 (12.99x22.05x5.96/9.06/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE335615/23/30xxx
330x790x150/230/300 (12.99x31.10x5.96/9.06/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE337915/23/30xxx
370x220x150/200/300 (14.57x8.66x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE372215/20/30xxx
370x260x150/200/300 (14.57x10.24x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE372615/20/30xxx
370x330x150/230/300 (14.57x12.99x5.96/9.06/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE373315/23/30xxx
370x370x150/200/300 (14.57x14.57x5.96/7.87/11.81)	X	X	X	X	≥1.2 (0.05)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE373715/20/30xxx
370x560x150/200/300 (14.57x22.05x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE375615/20/30xxx
370x750x150/200/300 (14.57x29.53x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE377515/20/30xxx
560x260x150/200/300 (12.99x10.24x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE562615/20/30xxx
560x330x150/230/300 (12.99x12.99x5.96/9.06/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE563315/23/30xxx
560x370x150/200/300 (12.99x14.57x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE563715/20/30xxx
560x560x150/200/300 (12.99x22.05x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE565615/20/30xxx
560x750x150/200/300 (12.99x29.53x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE567515/20/30xxx
750x260x150/200/300 (29.53x10.24x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE752615/20/30xxx
750x370x150/200/300 (29.53x14.57x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE753715/20/30xxx
750x560x150/200/300 (29.53x22.05x5.96/7.87/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE755615/20/30xxx
790x330x150/230/300 (31.10x12.99x5.96/9.06/11.81)	X	X	X	X	≥1.5 (0.06)	≥1.2 (0.05)	≥3.0 (0.12)	ASSE793315/23/30xxx
1000x800x250/300/350 (39.37x31.50x9.84/11.81/13.78)	X	X	X	X	≥2.0 (0.08)	≥1.5 (0.06)	≥3.0 (0.12)	ASSE108025/30/35xxx
1200x970x300/350/400 (47.24x38.19x11.81/13.78/15.75)	X	X	X	X	≥2.0 (0.08)	≥1.5 (0.06)	≥3.0 (0.12)	ASSE129730/35/40xxx
1500x970x400/500 (59.05x38.19x15.75/19.68)	X	X	X	X	≥2.0 (0.08)	≥1.5 (0.06)	≥3.0 (0.12)	ASSE159740/50xxx

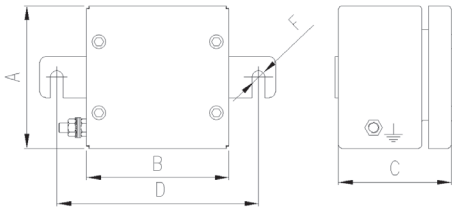
Enclosures and Junction Boxes

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)



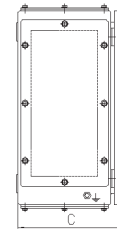
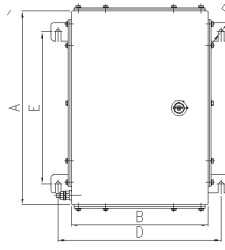
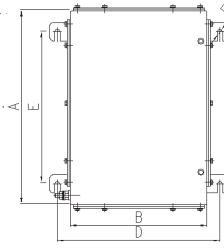
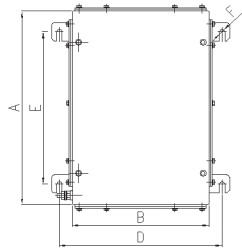
A	B	C	D	F	Bolt (qty)	Catalog Number
120 (4.72)	120 (4.72)	95 (3.74)	170 (6.69)	2 x Ø 11 (0.43)	4	ASSE121295/15xxx
180 (7.9)	120 (4.72)	95 (3.74)	170 (6.69)	2 x Ø 11 (0.43)	4	ASSE181295/15xxx
180 (7.9)	180 (7.9)	95 (3.74)	230 (9.1)	2 x Ø 11 (0.43)	4	ASSE181895/15xxx
180 (7.9)	220 (8.66)	95 (3.74)	270 (10.63)	2 x Ø 11 (0.43)	4	ASSE182295/15xxx
180 (7.9)	220 (8.66)	150 (5.91)	270 (10.63)	2 x Ø 11 (0.43)	4	ASSE182215/15xxx

Bolt Type

Hinge Type

Cam Lock Type

Side



A	B	C	D	E	F	Bolt	Hinge	Cam Lock	Catalog Number
220 (8.66)	180 (7.09)	95/150 (3.54/ 5.91)	230 (9.06)	140 (5.51)	4 x Ø 11 (0.43)	4	2	1	ASSE221895/15xxx
220 (8.66)	220 (8.66)	150/200/300 (5.91/7.87/11.81)	270 (10.63)	140 (5.51)	4 x Ø 11 (0.43)	4	2	1	ASSE222215/20/30xxx
220 (8.66)	260 (10.24)	150/200/300 (5.91/7.87/11.81)	310 (12.20)	140 (5.51)	4 x Ø 11 (0.43)	4	2	1	ASSE222615/20/30xxx
220 (8.66)	370 (14.57)	150/200/300 (5.91/7.87/11.81)	420 (16.54)	140 (5.51)	4 x Ø 11 (0.43)	4	2	1	ASSE223715/20/30xxx
260 (10.24)	220 (8.66)	150/200/300 (5.91/7.87/11.81)	270 (10.63)	180 (7.09)	4 x Ø 11 (0.43)	4	2	1	ASSE262215/20/30xxx
260 (10.24)	260 (10.24)	150/200/300 (5.91/7.87/11.81)	270 (10.63)	180 (7.09)	4 x Ø 11 (0.43)	4	2	1	ASSE262615/20/30xxx
260 (10.24)	370 (14.57)	150/200/300 (5.91/7.87/11.81)	420 (16.54)	180 (7.09)	4 x Ø 11 (0.43)	4	2	1	ASSE263715/20/30xxx
260 (10.24)	560 (22.05)	150/200/300 (5.91/7.87/11.81)	610 (24.02)	180 (7.09)	4 x Ø 11 (0.43)	4	2	1	ASSE265615/20/30xxx
260 (10.24)	750 (29.53)	150/200/300 (5.91/7.87/11.81)	800 (31.50)	180 (7.09)	4 x Ø 11 (0.43)	4	2	1	ASSE267515/20/30xxx
330 (12.99)	370 (14.57)	150/230/300 (5.91/9.06/11.81)	420 (16.54)	250 (9.84)	4 x Ø 11 (0.43)	4	2	1	ASSE333715/23/30xxx
330 (12.99)	560 (22.05)	150/230/300 (5.91/9.06/11.81)	610 (24.02)	250 (9.84)	4 x Ø 11 (0.43)	4	2	1	ASSE335615/23/30xxx
330 (12.99)	790 (31.10)	150/230/300 (5.91/9.06/11.81)	840 (33.07)	250 (9.84)	4 x Ø 11 (0.43)	4	2	1	ASSE337915/23/30xxx
370 (14.57)	220 (8.66)	150/200/300 (5.91/7.87/11.81)	270 (10.63)	290 (11.41)	4 x Ø 11 (0.43)	4	2	1	ASSE372215/20/30xxx
370 (14.57)	330 (12.99)	150/230/300 (5.91/9.06/11.81)	380 (14.96)	290 (11.41)	4 x Ø 11 (0.43)	6	3	2	ASSE372615/20/30xxx
370 (14.57)	370 (14.57)	150/200/300 (5.91/7.87/11.81)	420 (16.54)	290 (11.41)	4 x Ø 11 (0.43)	6	3	2	ASSE373715/20/30xxx
370 (14.57)	560 (22.05)	150/200/300 (5.91/7.87/11.81)	610 (24.02)	290 (11.41)	4 x Ø 11 (0.43)	6	3	2	ASSE375615/20/30xxx

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

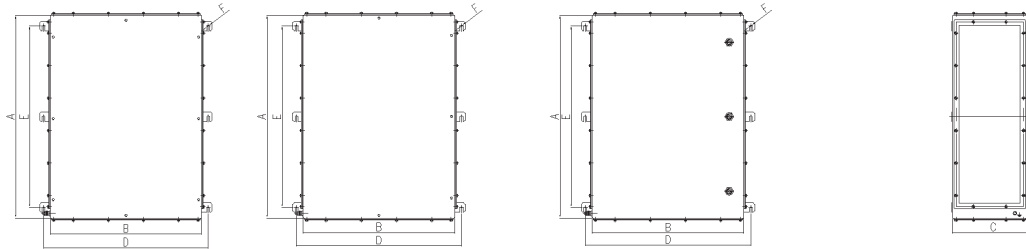
Dimensions in Millimeters (Inches)

Bolt Type

Hinge Type

Cam Lock Type

Side



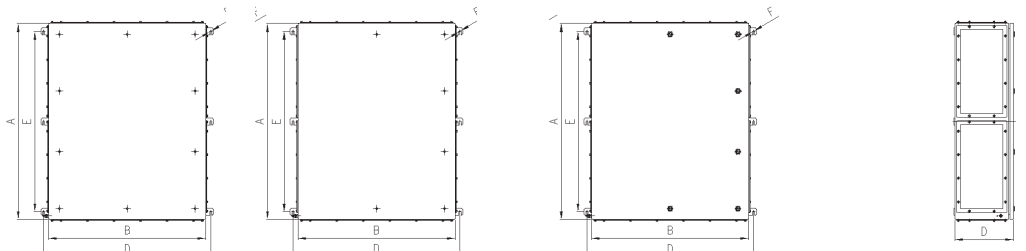
A	B	C	D	E	F	Bolt	Hinge	Cam Lock	
370	750	150/200/300 (5.96/7.87/11.81)	800 (31.50)	290 (11.42)	4 x Ø 11 (0.43)	6	2	1	ASSE377515/20/30xxx
560	260	150/200/300 (5.96/7.87/11.81)	310 (12.20)	480 (18.90)	4 x Ø 11 (0.43)	6	3	2	ASSE562615/20/30xxx
560	330	150/230/300 (5.96/9.06/11.81)	380 (14.96)	480 (18.90)	4 x Ø 11 (0.43)	6	3	2	ASSE563315/23/30xxx
560	370	150/200/300 (5.96/7.87/11.81)	420 (16.54)	480 (18.90)	4 x Ø 11 (0.43)	6	3	2	ASSE563715/20/30xxx
560	560	150/200/300 (5.96/7.87/11.81)	610 (242)	480 (18.90)	4 x Ø 11 (0.43)	6	3	2	ASSE565615/20/30xxx
560	750	150/200/300 (5.96/7.87/11.81)	800 (31.50)	480 (18.90)	4 x Ø 11 (0.43)	8	3	2	ASSE567515/20/30xxx
750	260	150/200/300 (5.96/7.87/11.81)	310 (12.20)	670 (26.38)	6 x Ø 11 (0.43)	8	3	3	ASSE752615/20/30xxx
750	370	150/200/300 (5.96/7.87/11.81)	420 (16.54)	670 (26.38)	6 x Ø 11 (0.43)	8	3	3	ASSE753715/20/30xxx
750	560	150/200/200 (5.96/7.87/7.87)	610 (242)	670 (26.38)	6 x Ø 11 (0.43)	8	3	3	ASSE755615/20/30xxx
790	330	150/230/300 (5.96/9.06/11.81)	380 (14.96)	710 (27.95)	6 x Ø 11 (0.43)	8	3	3	ASSE793315/23/30xxx

Bolt Type

Hinge Type

Cam Lock Type

Side



A	B	C	D	E	F	Bolt	Hinge	Cam Lock	
1000 (39.37)	800 (31.50)	250/300/350 (9.84/11.81/13.78)	850 (33.46)	920 (36.22)	6 x Ø 11 (0.43)	14	5	6	ASSE108025/30/35xxx
1200 (47.24)	800 (31.50)	300/350/400 (11.81/13.78/15.75)	1020 (40.16)	1120 (44.9)	6 x Ø 11 (0.43)	16	5	8	ASSE129730/35/40xxx
1500 (59.05)	970 (38.19)	400/500 (15.75/19.68)	1020 (40.16)	1420 (55.91)	6 x Ø 11 (0.43)	18	5	9	ASSE159740/50xxx

Enclosures and Junction Boxes

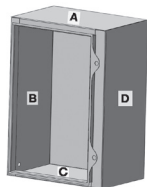
ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Cable Entry Arrangement

Note: The information is only for reference. For Power Junction Box application please contact your local sales representative.



M20		M25		M32		M40		M50		M63		Catalog Number
A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	
2	1	1	1	—	—	—	—	—	—	—	—	ASSE121295x0B
2	3	1	3	1	2	1	2	—	—	—	—	ASSE181295x0B
3	3	3	3	3	2	2	2	—	—	—	—	ASSE181895x0B
3	8	3	5	3	3	2	3	—	—	—	—	ASSE221895x0x
15	15	11	11	6	6	5	5	2	2	2	2	ASSE222220x0x
18	15	14	11	8	6	6	5	2	2	2	2	ASSE222615x0x
9	8	6	5	3	3	3	2	—	—	—	—	ASSE222615x4x
39	23	27	16	18	9	12	8	8	4	6	3	ASSE223720x0x
23	14	15	9	9	6	8	4	3	2	3	1	ASSE223720x4x
15	18	11	14	6	8	5	6	2	2	2	2	ASSE262215x0x
8	8	5	5	3	3	2	2	—	—	—	—	ASSE262215x4x
39	30	27	20	18	11	12	9	8	6	6	4	ASSE263720x0x
23	18	15	11	9	6	8	5	3	2	3	23	ASSE263720x4x
23	39	16	27	9	18	8	12	4	8	3	6	ASSE372220x0x
14	23	9	15	6	9	4	8	2	3	1	3	ASSE372220x4x
30	39	20	27	11	18	9	12	6	8	4	6	ASSE372620x0x
18	23	11	15	6	9	5	8	2	3	2	3	ASSE372620x4x
39	39	27	27	18	18	12	12	8	8	6	6	ASSE373720x0x
25	23	18	15	11	9	7	8	4	3	3	3	ASSE373720x4x
70	39	42	27	28	18	20	12	12	8	9	6	ASSE375620x0x
46	23	32	15	17	9	11	8	6	3	5	3	ASSE375620x4x
94	65	75	48	46	30	33	20	18	11	14	9	ASSE375630x0x
75	40	57	28	33	18	24	13	15	6	11	5	ASSE375630x4x
81	39	53	27	40	18	27	12	15	8	11	8	ASSE377520x0x
60	23	41	15	24	9	19	8	9	3	7	3	ASSE377520x4x
120	65	95	48	64	30	42	20	25	11	18	9	ASSE377530x0x
102	40	70	28	44	18	32	13	20	6	14	5	ASSE377530x4x
39	56	27	42	18	28	12	20	8	12	6	9	ASSE563720x0x
25	38	18	29	11	15	7	12	4	6	3	5	ASSE563720x4x
65	94	48	75	30	46	20	33	11	18	9	14	ASSE563730x0x
50	60	32	52	20	28	16	20	9	12	5	8	ASSE563730x4x

Enclosures and Junction Boxes

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Cable Entry Arrangement — Continued

Note: The information is only for reference. For Power Junction Box application please contact your local sales representative.

M20		M25		M32		M40		M50		M63		Catalog Number
A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	A/C	B/D	
65	56	42	42	28	28	20	20	12	12	9	9	ASSE565620x0x
46	38	32	29	17	15	11	12	6	6	5	5	ASSE565620x4x
94	94	75	75	46	46	33	33	18	18	14	14	ASSE565630x0x
75	70	57	52	33	28	24	20	15	12	11	8	ASSE565630x4x
81	56	53	42	40	28	27	20	15	12	11	9	ASSE567520x0x
60	38	41	29	24	15	19	12	9	6	7	5	ASSE567520x4x
120	94	95	75	64	46	42	33	25	18	18	14	ASSE567530x0x
102	70	70	52	44	28	32	20	20	12	14	8	ASSE567530x4x
39	81	27	53	18	40	12	27	8	15	6	11	ASSE753720x0x
25	53	18	36	11	21	7	18	4	8	3	7	ASSE753720x4x
65	120	48	95	30	64	20	42	11	25	9	18	ASSE753730x0x
50	95	32	72	20	46	16	28	9	18	5	12	ASSE753730x4x
65	81	42	53	28	40	20	27	12	15	9	11	ASSE755620x0x
46	53	32	36	17	21	11	17	6	8	5	7	ASSE755620x4x

Enclosures and Junction Boxes

Terminal Block Arrangement

Note: The information is only for reference. For Power Junction Box application please contact your local sales representative.

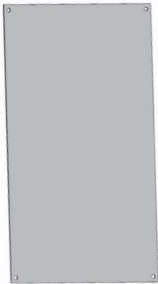



Enclosure Size	Max Wattage/Current (T6 at 40 °C)		Terminal Capacity (mm ²)									
	Wattage (W)	%	2.5	4	6	10	16	35	50	70	95	
120x120x95 (4.72x4.72x3.74)	8.64	57.6	10	8	6	5	—	—	—	—	—	
120x180x95 (4.72x7.09x3.74)	11.65	56.78	21	17	13	10	—	—	—	—	—	
180x180x95 (7.09x7.09x3.74)	15.49	55.75	21	17	13	10	—	—	—	—	—	
260x220x150 (10.24x8.66x5.91)	30.13	51.97	52	40	32	26	22	16	—	—	—	
370x220x150 (14.57x8.66x5.91)	39.68	49.63	57	47	36	29	24	18	—	—	—	
370x220x200 (14.57x8.66x7.87)	46.63	47.98	57	47	36	29	24	18	—	—	—	
370x260x200 (14.57x10.24x7.87)	52.00	46.74	110	92	72	56	46	34	—	—	—	
370x370x200 (14.57x14.57x7.87)	66.84	43.47	165	138	108	84	69	51	—	—	—	
560x370x200 (225.00x14.57x7.87)	92.64	38.31	270	225	174	138	114	87	50	44	34	
560x370x300 (225.00x14.57x11.81)	114.96	34.37	270	225	174	138	114	87	50	44	34	
560x560x200 (225.00x225.00x7.87)	127.37	32.39	360	300	232	184	152	112	75	66	51	
560x560x300 (225.00x225.00x11.81)	154.57	28.55	360	300	232	184	152	112	75	66	51	
750x370x200 (29.53x14.57x7.87)	118.65	33.76	381	318	246	195	162	120	88	78	50	
750x370x300 (29.53x14.57x11.81)	145.78	29.72	381	318	246	195	162	120	88	78	50	
750x560x200 (29.53x225.00x7.87)	162.48	27.57	508	424	328	260	216	160	140	124	72	

ASSE Series Stainless Steel Enclosures

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22


Mounting Accessories

Mounting Plate (Zinc Plated Steel)	Dimensions in Millimeters (Inches)			Catalog Number
	Enclosure Dimensions	Mounting Dimensions	Standard Thickness	
	120x120 (4.72x4.72)	100x60 (3.94x2.36)	1.5 (0.06)	SH0200001-1
	120x180 (4.72x7.09)	160x60 (6.30x2.36)	1.5 (0.06)	SH0200001-2
	180x180 (7.09x7.09)	160x130 (6.30x5.12)	1.5 (0.06)	SH0200001-3
	260x220 (10.24x8.66)	200x160 (7.87x6.30)	1.5 (0.06)	SH0200001-4
	370x220 (14.57x8.66)	310x160 (12.20x6.30)	1.5 (0.06)	SH0200001-5
	370x260 (14.57x10.24)	310x200 (12.20x7.87)	1.5 (0.06)	SH0200001-6
	370x370 (14.57x14.57)	310x310 (12.20x12.20)	1.5 (0.06)	SH0200001-7
	560x370 (22.05x14.57)	500x310 (19.69x12.20)	2.0 (0.08)	SH0200001-8
	560x560 (22.05x22.05)	500x500 (19.69x19.69)	2.0 (0.08)	SH0200001-9
	750x370 (29.53x14.57)	690x500 (27.17x19.69)	2.0 (0.08)	SH0200001-10
	750x560 (29.53x22.05)	690x500 (27.17x19.69)	2.0 (0.08)	SH0200001-11
	1000x800 (39.37x31.49)	752x950 (29.60x37.40)	2.0 (0.08)	SH0200001-12
	1200x970 (47.24x38.19)	922x1150 (36.29x45.28)	2.0 (0.08)	SH0200001-13
	1500x970 (59.05x38.19)	922x1450 (36.29x57.08)	2.0 (0.08)	SH0200001-14
	Cover screw Material: stainless steel			SH01700017
	Self-adhesive inside pocket for drawings External dimensions: 265.0 x 235.0 (10.43 x 9.25) Internal dimensions: 230.0 x 220.0 x 30.0 (9.06 x 8.66 x 1.18)			SH02200011
	External dimensions: 235.0 x 175.0 (9.25 x 6.89) Internal dimensions: 230.0 x 145.0 x 20.0 (9.06 x 5.71 x 0.79)			SH02200013
	Stainless steel cam lock with key			SH01700097

Notes

Enclosures and Junction Boxes

Control Stations and Panels | Pictorial Index

Page	Description	NEC	CEC	ATEX	IECEX			
D2	Unicode™ 2 U2 Series Fiberglass Reinforced Polyester Control Stations	•	•	•	•			
D17	Unicode™ 2 U4 Series Polycarbonate Control Stations			•	•			
D26	Unicode™ 2 U6 Series Stainless Steel Control Stations	•	•	•	•	<i>Unicode 2 U2</i>	<i>Unicode 2 U4</i>	<i>Unicode 2 U6</i>
D40	Unicode™ 2 Pre-Drilled Control Stations	•	•	•	•			
D46	AGLCS Series GRP Local Control Stations and Switches			•	•		<i>AGLCS</i>	<i>ASLCS</i>
D52	ASLCS Series Stainless Steel Control Station			•	•			
D57	Unicode™ 2 Components Push Buttons	•	•	•	•			
D59	Unicode™ 2 Components Mushroom Push Buttons	•	•	•	•			
D61	Unicode™ 2 Components Key Release Mushroom Push Buttons	•	•	•	•			
D62	Unicode™ 2 Components Key Momentary Push Buttons	•	•	•	•			
D63	Unicode™ 2 Components Rotary Actuators	•	•	•	•			
D65	Unicode™ 2 Components Illuminated Push Buttons	•	•	•	•			
D67	Unicode™ 2 Components Pilot Lights	•	•	•	•			
D69	Unicode™ 2 Components 1-Pole Contact Block	•	•	•	•			
D70	Unicode™ 2 Components 16 Amp Switches	•	•	•	•			
D81	Unicode™ 2 Components Accessories							
D83	Unicode™ 2 Series Accessoires: Ammeters	•	•	•	•			
D87	Unicode™ 2 Series Accessoires: Voltmeters			•	•			
D89	ATX™ FU40 Series Fuse Carrier			•	•			
D90	ATX™ TRE Series Ex e Transformers			•	•			
D92	ATX™ D Series Aluminum Control Stations			•	•			
D96	ATX™ D Series Pre-Drilled Aluminium Control Stations			•	•	<i>Unicode 2 Ammeters</i>	<i>Unicode 2 Voltmeters</i>	<i>FU40</i>
D99	ATX™ ACSEW-X Cast Control and Distribution Centers			•	•			
D101	APDAC/APDSC Series Control Stations			•	•			
D103	ATX™ D Series Components			•	•			
D110	ATX™ DM Series Motor Starters			•	•	<i>TRE</i>	<i>D Series</i>	<i>D Series Pre-Drilled</i>
D112	ATX™ MS Series Motor Starters			•	•			
D117	ATX™ FAS Series “Break Glass” Call Points			•	•			
D119	ATX™ SWE Series 16 and 20 Amp Switches			•	•			
D123	ATX™ SWD Series 16 and 32 Amp Switches			•	•	<i>ACSEW-X</i>	<i>APDAC/APDSC</i>	<i>D Series Components</i>
D126	ATX™ SWD Series 20 to 250 Amp Isolator Switches			•	•			
						<i>DM</i>	<i>MS</i>	<i>FAS</i>
								
						<i>SWE 16 and 20 Amp</i>	<i>SWD 16 and 32 Amp</i>	<i>SWD 20 to 250 Amp</i>

Control Stations and Panels

Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO, cCSAus Certified

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Fixing on DIN Rail TS35 for fast assembly and disassembly
- Contacts and pilot lights Ex db eb sealed
- Pilot light employs high intensity single LED that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Polyamide cable gland for unarmoured cables Ø 5,5mm-14mm in M20 and Ø 9mm-18mm in M25.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- Wide selection of termination methods available.
- TS35 rail mounted components are held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plates to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Body and cover: fiberglass reinforced polyester (FRP) with black finish
- Cover screws: 316 L stainless steel



U22W2PGA5



U23W2CA13M3

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: other materials and colors available
- Padlocking facility for actuator blocks
- Other actuator blocks configurations available

ATEX/IECEX Certification and Compliances

- Certification Type: : U2
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C / -25 °C (-40 / -13 °F) - (ammeters and voltmeters) to +55 °C (131 °F)
 - ATEX Certificate: INERIS 20ATEX0049X
 - IECEX Certificate: IECEX INE 20.0050X
 - Protection Index Following EN/IEC 60529: IP66
 - Impact Resistance (shock): IK08 ①

UKEX Certifications

- UKEX Certificate: CML 21UKEX1151X

INMETRO Certifications

- INMETRO Certificate: BVC 22.4127-X

Other Certifications

- cCSAus Certification available on special request. Contact your local sales representative for more information.

① Other configurations available with IK09 on request. Please contact your local sales representative


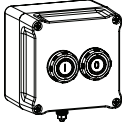
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Momentary Push Buttons (I_{max} = 15A)						
	Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts	Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2A3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4A3
	1x green push button 'I' with 1NO momentary contact	Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2A5
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4A5
	1x red push button 'O' with 1NC momentary contact	Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2A9
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4A9
Twin Momentary Push Buttons (I_{max} = 15A)						
	1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts	Bottom	2 x M20	1.1 (2.43)	4.0 (244.10)	U21W2A5A9
			2 x M25	1.1 (2.43)	4.0 (244.10)	U21W4A5A9
	1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact momentary contacts	Bottom	2 x M20	1.1 (2.43)	4.0 (244.10)	U21W2A3A3
			2 x M25	1.1 (2.43)	4.0 (244.10)	U21W4A3A3

① Other configurations available on request. Please contact your local sales representative.


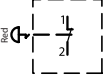
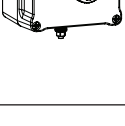
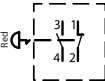

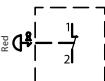

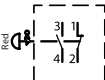

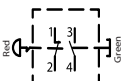
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Emergency Stop (Imax = 15A)						
 Red mushroom head push-pull 1NC maintained contact		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2D9
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4D9
 Red mushroom head push-pull 1NO + 1NC maintained contacts		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2D3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4D3
 Red mushroom head key release 1NC maintained contact		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2C9
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4C9
 Red mushroom head key release 1NO + 1NC maintained contacts		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2C3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4C3
Push Pull Emergency Stop + Push Button (Imax = 15A)						
 1x red mushroom head push-pull with 1NC maintained contact 1x green push button 'I' with 1NO momentary contact		Bottom	2 x M20	1.1 (2.43)	4.0 (244.10)	U21W2D9A5
			2 x M25	1.1 (2.43)	4.0 (244.10)	U21W4D9A5

① Other configurations available on request. Please contact your local sales representative.


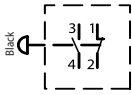
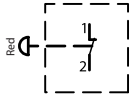

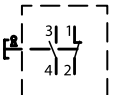
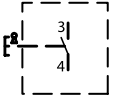
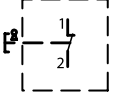
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number	
Mushroom Head Push Button (Imax = 15A)							
 <p>Black mushroom head push button 1NO + 1NC momentary contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2B3	
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4B3	
	<p>Red mushroom head push button 1NC momentary contact</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2R9
				2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4R9
Key Push Button (Imax = 15A)							
 <p>With key removable in both positions 1NO + 1NC maintained contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2E3	
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4E3	
	<p>With key removable in both positions 1NO maintained contact</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2E5
				2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4E5
	<p>With key removable in both positions 1NC maintained contact</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2E9
				2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4E9

① Other configurations available on request. Please contact your local sales representative.






Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pilot Light (Umax = 264 Vac/60 Vdc)						
1x red pilot light		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2PR
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4PR
1x green pilot light		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2PG
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4PG
1x blue pilot light		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2PB
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4PB
1x yellow pilot light		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2PY
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4PY
1x white pilot light		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2PW
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4PW



① Other configurations available on request. Please contact your local sales representative.


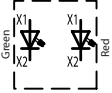

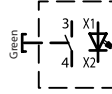
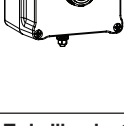
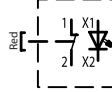
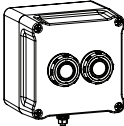
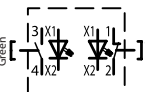
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Pilot Light (Umax = 264 Vac/60 Vdc)						
 <p>1x green pilot light 1x red pilot light</p>		Bottom	2 x M20	1.1 (2.43)	4.0 (244.10)	U21W2PGPR
			2 x M25	1.1 (2.43)	4.0 (244.10)	U21W4PGPR
Illuminated Push Button: pilot light (Umax = 264 Vac/60 Vdc), contact (Imax = 13A)						
 <p>1x green illuminated push button with 1NO contact momentary contact</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2LG5
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4LG5
 <p>1x red illuminated push button with 1NC contact momentary contact</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2LR9
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4LR9
Twin Illuminated Push Button: pilot light (Umax = 264 Vac/60 Vdc), contact (Imax = 13A)						
 <p>1x green illuminated push button with 1NO contact 1x red illuminated push button with 1NC contact momentary contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2LG5LR9
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4LG5LR9

① Other configurations available on request. Please contact your local sales representative.


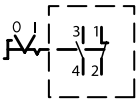

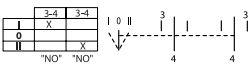

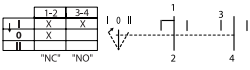

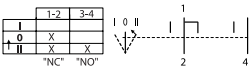
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
2-Position Selector Switch (Imax = 15A)						
 <p>2 fixed positions '0 - I' 1NO + 1NC contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2H3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4H3
3-Position Selector Switch (Imax = 15A)						
 <p>3 fixed positions 'I - 0 - II' 2NO contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2J1
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4J1
3-Position Selector Switch (Imax = 12A)						
 <p>3 positions 'I - 0 - II' with spring return from I to 0 1NO + 1NC contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2N3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4N3
 <p>3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts</p>		Bottom	2 x M20	1.0 (2.20)	4.0 (244.10)	U21W2M3
			2 x M25	1.0 (2.20)	4.0 (244.10)	U21W4M3

① Other configurations available on request. Please contact your local sales representative.

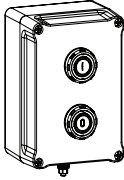

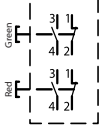

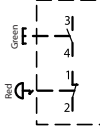
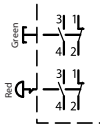
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
Twin Push Button (Imax = 13A)							
	1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2A5A9
				2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4A5A9
	1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact momentary contacts		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2A3A3
				2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4A3A3
Push Button + Push-Pull Emergency Stop (Imax = 13A)							
	1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull with 1NC maintained contact		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2A5D9
				2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4A5D9
	1x green push button 'I' with 1NO + 1NC momentary contact 1x red mushroom head push-pull with 1NO + 1NC maintained contacts		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2A3D3
				2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4A3D3

① Other configurations available on request. Please contact your local sales representative.

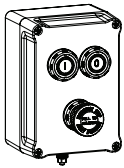
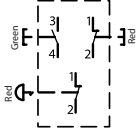
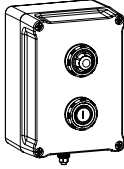
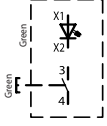
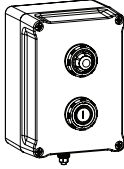
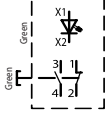
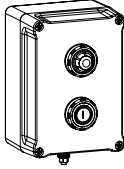
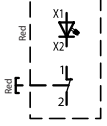
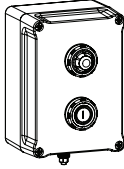
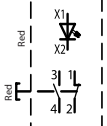
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop (Imax = 13A)						
 <p>1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull with 1x NC maintained contact</p>		Bottom	2 x M20	1.3 (2.87)	4.0 (244.10)	U22W2A5A9D9
			2 x M25	1.3 (2.87)	4.0 (244.10)	U22W4A5A9D9
Pilot Light (Umax = 264 Vac/60 Vdc) + Push Button (Imax = 13A)						
 <p>1x green light 1x green push button 'I' with 1NO momentary contact</p>		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2PGA5
			2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4PGA5
 <p>1x green light 1x green push button 'I' with 1NO + 1NC momentary contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2PGA3
			2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4PGA3
 <p>1x red light 1x red push button 'O' with 1NC momentary contact</p>		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2PRA9
			2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4PRA9
 <p>1x red light 1x red push button 'O' with 1NO + 1NC momentary contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.0 (244.10)	U22W2PRA3
			2 x M25	1.2 (2.65)	4.0 (244.10)	U22W4PRA3

① Other configurations available on request. Please contact your local sales representative.

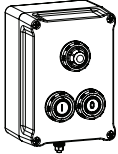

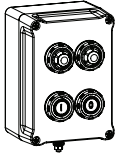
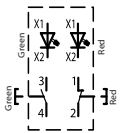
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Polyester Control Station

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Pilot Light (U_{max} = 264 Vac/60 Vdc) + Twin Push Buttons (I_{max} = 13A)						
 <p>1x green light 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC momentary contacts</p>		Bottom	2 x M20	1.3 (2.87)	4.0 (244.10)	U22W2PGA5A9
			2 x M25	1.3 (2.87)	4.0 (244.10)	U22W4PGA5A9
Twin Pilot Lights (U_{max} = 264 Vac/60 Vdc) + Twin Push Buttons (I_{max} = 13A)						
 <p>1x green light + 1x red light 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC momentary contacts</p>		Bottom	2 x M20	1.3 (2.87)	4.0 (244.10)	U22W2PGPRA5A9
			2 x M25	1.3 (2.87)	4.0 (244.10)	U22W4PGPRA5A9

① Other configurations available on request. Please contact your local sales representative.

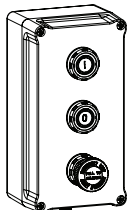
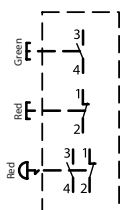
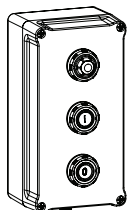

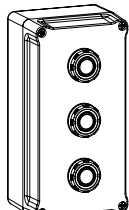
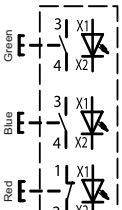
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 3 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop (Imax = 14A)						
 <p>1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2A5A9D3
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4A5A9D3
Pilot Light (Umax = 264 Vac/60 Vdc) + Twin Push Buttons (Imax =14A)						
 <p>1x green light 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p> <p>1x green light 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PGA5A9
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PGA5A9
			2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PRA5A9
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PRA5A9
			2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PGA3A3
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PGA3A3
			2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PRA3A3
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PRA3A3
Triple Illuminated Push Button: pilot light (Umax = 264 Vac/60 Vdc), contact (Imax = 8A)						
 <p>1x green illuminated push button with 1NO contact 1x blue illuminated push button with 1NO contact 1x red illuminated push button with 1NC contact momentary contacts</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2LG5LB5LR9
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4LG5LB5LR9

① Other configurations available on request. Please contact your local sales representative.

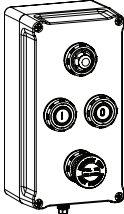
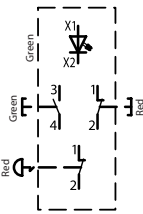
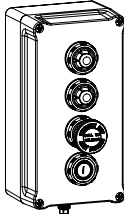
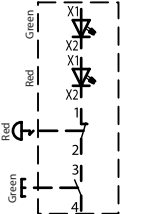
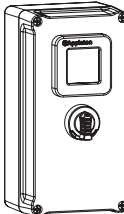
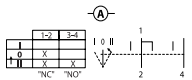
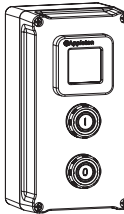
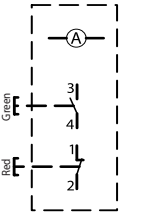
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 3 Polyester Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 1 brass earth continuity plate with M6 earth stud, 1 blanking plug, 1 polyamide cable gland

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pilot Light (Umax = 264 Vac/60 Vdc)+ Twin Push Buttons + Push-Pull Emergency Stop (Imax = 14A)						
 <p>1x green light 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull with 1x NC maintained contact</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PGA5A9D9
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PGA5A9D9
Twin Pilot Lights (Umax = 264 Vac/60 Vdc) + Push-Pull Emergency Stop + Push Button (Imax =14A)						
 <p>1x green light + 1x red light 1x red mushroom head push-pull with 1x NC maintained contact 1x green push button 'I' with 1NO momentary contact</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2PGPRD9A5
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4PGPRD9A5
Ammeter + 3 position selector switch (Imax = 10A)						
 <p>1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 3 position selector switch</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2CA13M3
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4CA13M3
Ammeter + Twin Push Buttons (Imax = 10A)						
 <p>1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p>		Bottom	2 x M20	1.4 (3.09)	6.0 (366.14)	U23W2CA13A5A9
			2 x M25	1.4 (3.09)	6.0 (366.14)	U23W4CA13A5A9

Control Stations and Panels

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

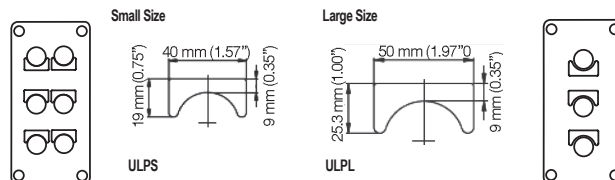
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).


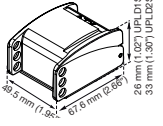


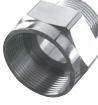




Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O - I	ULPSH01	ULPLH01
ON - OFF	ULPSH02	ULPLH02
START - STOP	ULPSH03	ULPLH03
STOP - START	ULPSH04	ULPLH04
HAND - AUTO	ULPSH05	ULPLH05
MANU - AUTO	ULPSH06	ULPLH06
FORWARD - REVERSE	ULPSH07	ULPLH07
REMOTE - LOCAL	ULPSH08	ULPLH08
MARCHE - ARRET	ULPSH09	ULPLH09
I - O - II	ULPSJ01	ULPLJ01
OFF - O - ON	ULPSJ02	ULPLJ02
START - NORMAL - STOP	ULPSJ03	ULPLJ03
HAND - OFF - AUTO	ULPSJ04	ULPLJ04
MANU - O - AUTO	ULPSJ05	ULPLJ05
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09

Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

	Description	Catalog Number
	<p>Additional Contacts</p> <p>Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum</p> <p>1NO contact</p> <p>1NC contact</p>	<p>UCB5R</p> <p>UCB9R</p>
	<p>Yellow Guard</p> <p>Mushroom head protection for emergency stop</p>	098657
	<p>Padlockable Guard</p> <p>Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm (0.24") maximum (not supplied)</p> <p>For push button and rotary actuator</p> <p>For mushroom head actuator</p>	<p>UPLD1S</p> <p>UPLD2S</p>
	<p>Cable Gland Exe</p> <p>For unarmored cable Exe - IP66 - in polyamide with entry thread seal</p> <p>M20 (capacity 5.5-14.5 mm)</p>	20DTSPE1TAL
	<p>For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)</p> <p>Braid and Tape type:</p> <p>M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)</p> <p>Single Wired Armor (SWA):</p> <p>M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)</p>	<p>20E1FX5</p> <p>20E1FW5</p>
	<p>Adaptors</p> <p>Exd/Exe - IP66 in nickel plated brass (without entry thread seal)</p> <p>Male M20 - Female 1/2" NPT</p> <p>Male M20 - Female 3/4" NPT</p>	<p>737DM2T15</p> <p>737DM2T25</p>
	<p>Entry Thread Seal</p> <p>M20 (in white nylon)</p>	20ETS2
	<p>Combination Drain and Breather</p> <p>Exe - IP66 - supplied with entry thread seal and locknut</p> <p>M20 male thread in Polyamide</p> <p>M20 male thread in Brass</p> <p>M20 male thread in Stainless Steel</p>	<p>DBE20P</p> <p>DBE20B</p> <p>DBE20S</p>

Control Stations and Panels

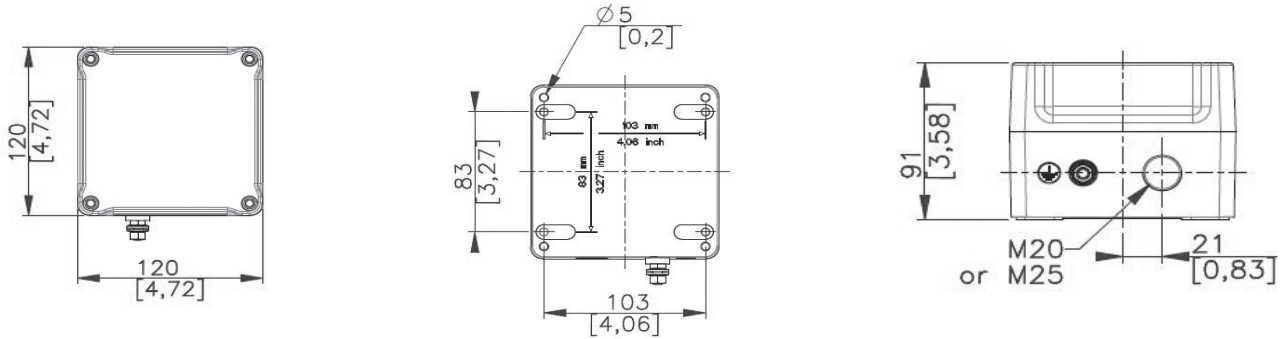
Unicode™ 2 | U2 Series Fiberglass Reinforced Polyester Control Stations

Increased Safety

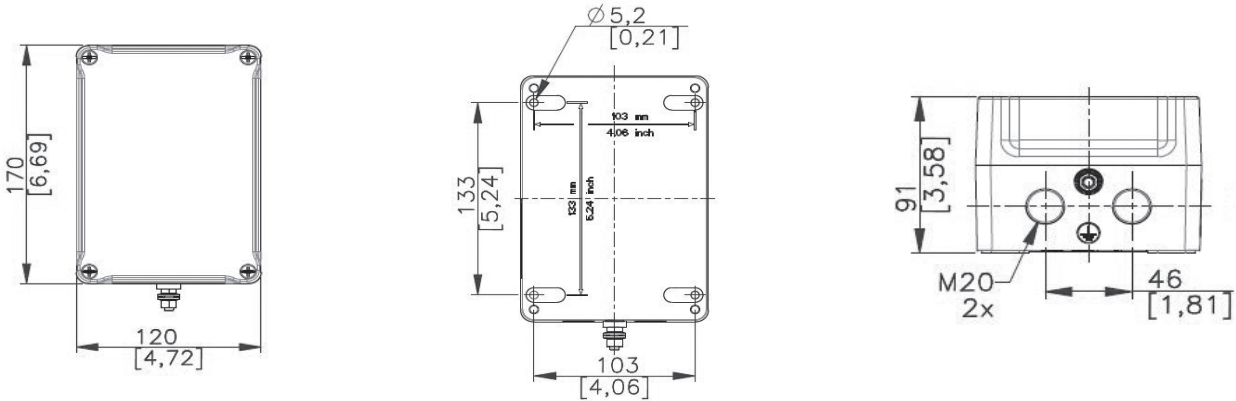
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Dimensions in Millimeters (Inches)

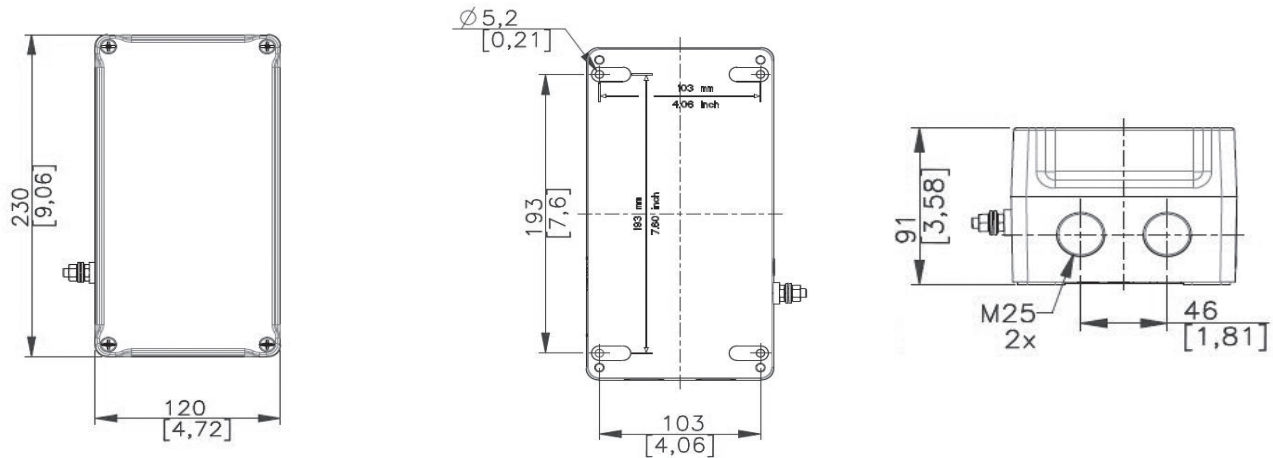
Size 1



Size 2



Size 3



Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used for remote control of motors and other electric circuits in hazardous locations.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.

Features

- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches.
- Pilot light employs high intensity single LED that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- M20 polyamide cable gland for unarmored cable Ø 5.5 mm -14 mm (0.22 in - 0.55in).
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Body, cover: polycarbonate, black finish
- Cover screws: 316L stainless steel



U42W2A5A9

U43W2CA13M3

Polycarbonate

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- Combination drain and breather available in polyamide.

Options

- Nameplates: other materials and colors available
- Padlocking facility for actuator blocks
- Other actuator blocks configurations available.

ATEX/IECEx Certifications and Compliances

- Certification Type: U4
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T70 °C (T158 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - ATEX Certificate: INERIS 21ATEX0002X
 - IECEx Certificate: IECEx INE 21.0004X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09 ①

UKEX Certifications

- UKEX Certificate: CML21UKEX11411X

INMETRO Certifications

- INMETRO Certificate: BVC22.4130-X

① Other configurations available with IK10 on request. Please contact your local sales representative

Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 1 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black fonts, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.
 Maximum current I_{max} per contact is 14A.



	Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Momentary Push Button						
	Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A3
	1x green push button "I" with 1NO momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A5
	1x red push button "O" with 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A9
Emergency Stop						
	Red mushroom head push-pull 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D9
	Red mushroom head push-pull 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D3
	Red mushroom head key release 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C9
	Red mushroom head key release 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C3
Mushroom Head Push Button						
	Black mushroom head push button 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2B3
	Red mushroom head push button 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2R9
Key Push Button						
	With key removable in both positions 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2E3

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations



Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 1 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

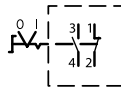


Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Pilot Light (Umax 264 Vac/60 Vdc)					
1x red pilot light		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PR
	1x green pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PG
	1x blue pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PB
	1x yellow pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PY
	1x white pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PW
					

2-Position Selector Switch (Imax = 14A)



2 fixed positions '0 - I'
 1NO + 1NC contacts

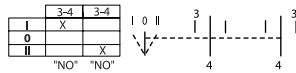


2 x M20 0.48 (1.06) 2.5 (152.56) U41W2H3

3-Position Selector Switch (Imax = 13A)

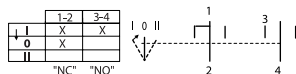


3 fixed positions 'I - 0 - II'
 2NO contacts



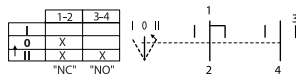
2 x M20 0.48 (1.06) 2.5 (152.56) U41W2J1

3 positions 'I - 0 - II'
 With spring return from I to 0
 1NO + 1NC contacts



2 x M20 0.48 (1.06) 2.5 (152.56) U41W2N3

3 positions 'I - 0 - II'
 With spring return from II to 0
 1NO + 1NC contacts

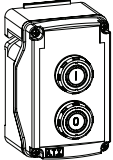

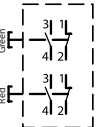


2 x M20 0.48 (1.06) 2.5 (152.56) U41W2M3

Size 2 Polycarbonate Control Station:

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
Twin Push Button (Imax = 14A)						
	1x green push button 'I' with 1NO contact, 1x red push button 'O' with 1NC contact momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A5A9
	1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A3A3

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations

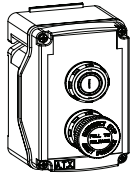
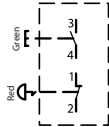
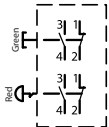
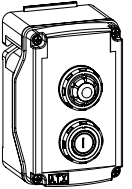
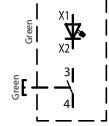
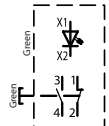
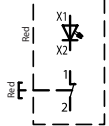
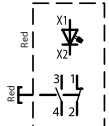
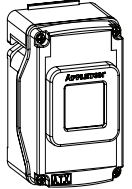
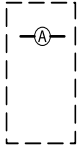
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 2 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Push Button + Push-Pull Emergency Stop (I_{max} = 14A)					
 <p>1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull emergency with 1NC maintained contact</p>		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A5D9
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A3D3
Pilot Light (U_{max}264 Vac/60 Vdc) + Push Button (I_{max} = 14A)					
 <p>1x green light 1x green push button 'I' with 1NO momentary contact</p> <p>1x green light 1x green push button 'I' with 1NO + 1NC momentary contacts</p> <p>1x red light 1x red push button 'O' with 1NC momentary contact</p> <p>1x red light 1x red push button 'O' with 1NO + 1NC momentary contacts</p>		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PGA5
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PGA3
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PRA9
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PRA3
Ammeter (I_{max} = 1A)					
 <p>1x ammeter 48 x 48 mm, (1.89" x 1.89") 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale</p>		2 x M20	0.56 (1.23)	2.5 (152.56)	U42W2CA13

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations

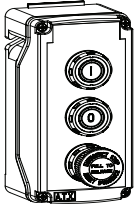
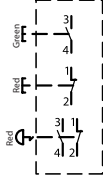
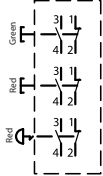
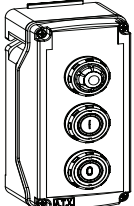
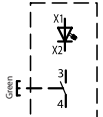
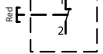
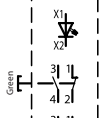
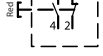
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 3 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop (I_{max} = 14A)					
 <p>1x green push button 'I' with 1NO contacts 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2A5A9D3
	<p>1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)
Pilot Light (U_{max} 264 Vac/60 Vdc) + Twin Push Buttons (I_{max} = 14A)					
 <p>1x green light 1x green push button 'I' with 1NO contact momentary contacts 1x red push button 'O' with 1NC contact momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO contact momentary contacts 1x red push button 'O' with 1NO contact momentary contacts</p> <p>1x green light 1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PGA5A9
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PRA5A9
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PGA3A3
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PRA3A3

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations


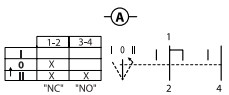
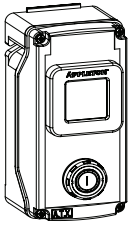
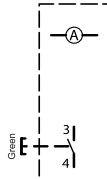

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 3 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Ammeter + 3-Position Selector Switch (I_{max} = 13A)					
 <p>1x ammeter 1.89 x 1.89 in/48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x 3-position selector switch 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts</p>		2 x M20	0.80 (1.76)	2.5 (152.56)	U43W2CA13M3
Ammeter + Push button (I_{max} = 13A)					
 <p>1x ammeter 1.89 x 1.89 in/ 48 x 48 mm, 1A C.T., 3 F.L.C., with 0-1-3 scale 1 x green push button 'I' with NO momentary contact</p>		2 x M20	0.80 (1.76)	2.5 (152.56)	U43W2CA13A5
Special Accessories for Polycarbonate Enclosure					
 <p>Tube or Frame Fixing FOR SIZE 1 ONLY For all tube diameter ≥ 80 mm (3.15") Using a metal strip (not supplied) maximum width 22 mm (0.87")</p>					098656

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

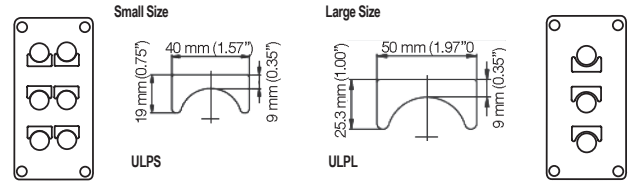
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).





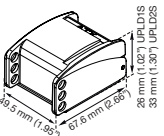



Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O - I	ULPSH01	ULPLH01
ON - OFF	ULPSH02	ULPLH02
START - STOP	ULPSH03	ULPLH03
STOP - START	ULPSH04	ULPLH04
HAND - AUTO	ULPSH05	ULPLH05
MANU - AUTO	ULPSH06	ULPLH06
FORWARD - REVERSE	ULPSH07	ULPLH07
REMOTE - LOCAL	ULPSH08	ULPLH08
MARCHE - ARRET	ULPSH09	ULPLH09
I - O - II	ULPSJ01	ULPLJ01
OFF - O - ON	ULPSJ02	ULPLJ02
START - NORMAL - STOP	ULPSJ03	ULPLJ03
HAND - OFF - AUTO	ULPSJ04	ULPLJ04
MANU - O - AUTO	ULPSJ05	ULPLJ05
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09

Control Stations and Panels

Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

	Description	Catalog Number
	<p>Additional Contacts</p> <p>Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum</p> <p>1NO contact</p> <p>1NC contact</p>	<p>UCB5R</p> <p>UCB9R</p>
	<p>Yellow Guard</p> <p>Mushroom head protection for emergency stop</p>	<p>098657</p>
	<p>Padlockable Guard</p> <p>Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm (0.24") maximum (not supplied)</p> <p>For push button and rotary actuator</p> <p>For mushroom head actuator</p>	<p>UPLD1S</p> <p>UPLD2S</p>
	<p>Cable Gland Exe</p> <p>For unarmored cable Exe - IP66 - in polyamide with entry thread seal</p> <p>M20 (capacity 5.5-14.5 mm)</p>	<p>20DTSPE1TAL</p>
	<p>Entry Thread Seal</p> <p>M20 (in white nylon)</p>	<p>20ETS2</p>
	<p>Combination Drain and Breather</p> <p>Exe - IP66 - supplied with entry thread seal and locknut</p> <p>M20 male thread in Polyamide</p>	<p>DBE20P</p>

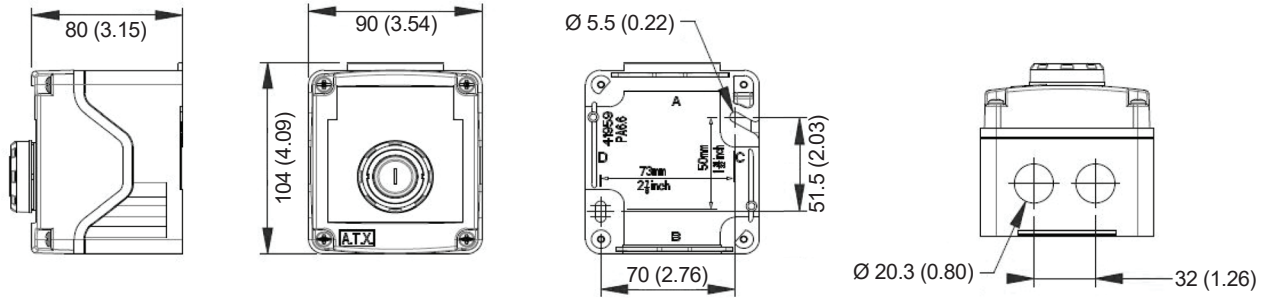
Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

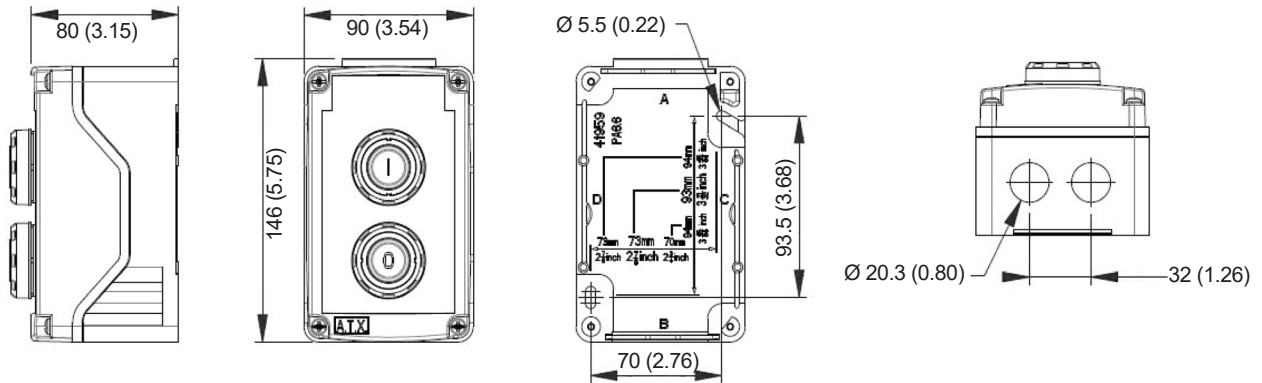
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

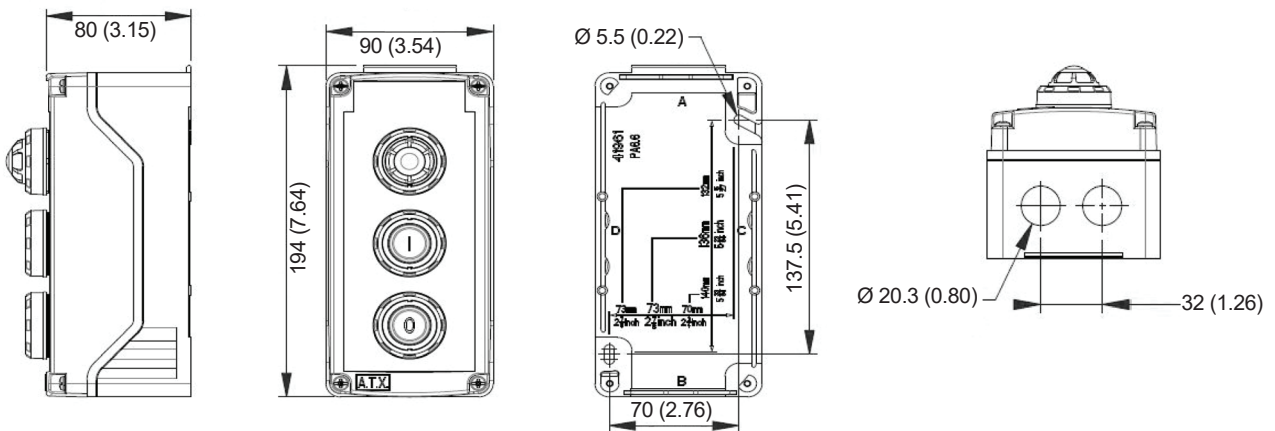
Size 1



Size 2



Size 3



Control Stations and Panels

Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

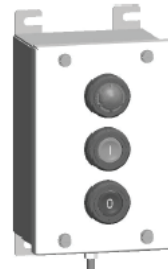
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO, cCSAus Certified

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used for remote control of motors and other electric circuits in hazardous locations.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- M20 polyamide cable gland for unarmored cable Ø 5.5 mm -14 mm (0.22 in - 0.55in).
- Contacts and pilot lights Ex db eb sealed
- Pilot light employs high intensity single LED that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Polyamide cable gland for unarmoured cables Ø 5,5mm-14mm in M20 and Ø 9mm-18mm in M25.
- Earth stud M6
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- TS35 rail mounted components are held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plates to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.



U62APGA3A3



U63W2CA13M3

316L Stained Steel

Standard Materials

- Body and cover: 316L stainless steel with natural finish
- Cover screws: 316L stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- Combination drain and breather available in polyamide.

Options

- Nameplates: Stainless Steel or Lamacoid with different color combinations.
- Padlocking facility for command auxiliary
- Other auxiliary command configurations

ATEX/IECEx Certification and Compliances

- Certification Type: : U6
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C or -25 °C (-40 °F to -13 °F) (ammeters and voltmeters) at +55 °C (-131 °F)
 - ATEX Certificate: INERIS 22ATEX0013X
 - IECEx Certificate: IECEx INE 22.0025X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK08 ①

UKEX Certification

- UKEX Certificate: CML 22UKEX1604X

INMETRO Certification

- INMETRO Certificate: BVC23.4214-X

Other Certifications

- cCSAus Certification available on special request. Contact your local sales representative for more information.

① Other configurations available with IK10 on request. Please contact your local sales representative

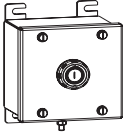
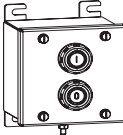
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Momentary Push Buttons (Imax = 15A)						
	Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts	Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2A3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4A3
	1x green push button 'I' with 1NO momentary contact	Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2A5
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4A5
	1x red push button 'O' with 1NC momentary contact	Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2A9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4A9
Twin Momentary Push Buttons (Imax = 15A)						
	1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts	Bottom	2 x M20	1.3 (2.87)	4.3 (262.40)	U61W2A5A9
			2 x M25	1.3 (2.87)	4.3 (262.40)	U61W4A5A9
	1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts	Bottom	2 x M20	1.3 (2.87)	4.3 (262.40)	U61W2A3A3
			2 x M25	1.3 (2.87)	4.3 (262.40)	U61W4A3A3

① Other configurations available on request. Please contact your local sales representative.

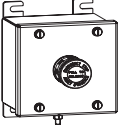
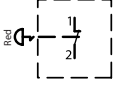
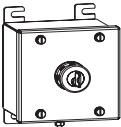
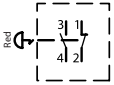
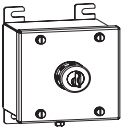
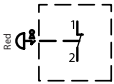
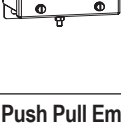
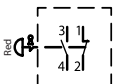
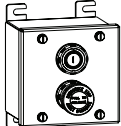
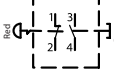
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Emergency Stop (I_{max} = 15A)						
 Red mushroom head push-pull 1NC maintained contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2D9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4D9
 Red mushroom head push-pull 1NO + 1NC maintained contacts		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2D3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4D3
Emergency Stop with key (I_{max} = 15A)						
 Red mushroom head key release 1NC maintained contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2C9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4C9
 Red mushroom head key release 1NO + 1NC maintained contacts		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2C3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4C3
Push Pull Emergency Stop + Push Button (I_{max} = 15A)						
 1x red mushroom head push-pull with 1NC maintained contact 1x green push button 'I' with 1NO momentary contact		Bottom	2 x M20	1.3 (2.87)	4.3 (262.40)	U61W2D9A5
			2 x M25	1.3 (2.87)	4.3 (262.40)	U61W4D9A5

① Other configurations available on request. Please contact your local sales representative.

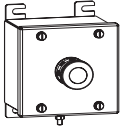
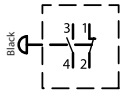

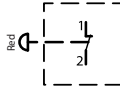
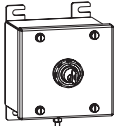
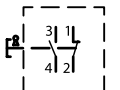
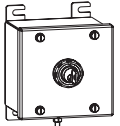
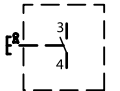
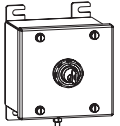
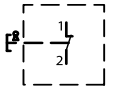
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts.

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Mushroom Head Push Button (I_{max} = 15A)						
 Black mushroom head push button 1NO + 1NC momentary contacts		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2B3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4B3
 Red mushroom head push button 1NC momentary contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2R9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4R9
Key Push Button (I_{max} = 15A)						
 With key removable in both positions 1NO + 1NC maintained contacts		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2E3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4E3
 With key removable in both positions 1NO maintained contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2E5
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4E5
 With key removable in both positions 1NC maintained contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2E9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4E9

① Other configurations available on request. Please contact your local sales representative.






Unicode™ 2 | U6 Series Stainless Steel Control Stations

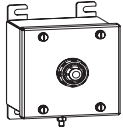
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts.

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pilot Light (Umax = 264 Vac/60 Vdc)						
1x red pilot light		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2PR
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4PR
1x green pilot light		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2PG
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4PG
1x blue pilot light		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2PB
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4PB
1x yellow pilot light		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2PY
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4PY
1x white pilot light		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2PW
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4PW



Control Stations and Panels

① Other configurations available on request. Please contact your local sales representative.

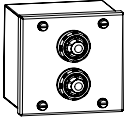

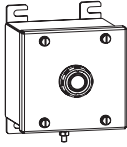
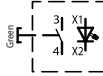

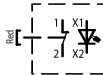
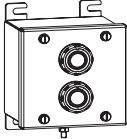

Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Pilot Light (Umax = 264 Vac/60 Vdc)						
 1x green pilot light 1x red pilot light		Bottom	2 x M20	1.3 (2.87)	4.3 (262.40)	U61W2PGPR
			2 x M25	1.3 (2.87)	4.3 (262.40)	U61W4PGPR
Illuminated Push Button: pilot light (Umax = 264 Vac/60 Vdc) and contact (Imax = 13A)						
 1x green illuminated push button with 1NO contact momentary contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2LG5
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4LG5
 1x red illuminated push button with 1NC contact momentary contact		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2LR9
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4LR9
Twin Illuminated Push Button (Umax = 264 Vac/60 Vdc) and contact (Imax = 13A)						
 1x green illuminated push button with 1NO contact 1x red illuminated push button with 1NC contact momentary contacts		Bottom	2 x M20	1.3 (2.87)	4.3 (262.40)	U61W2LG5LR9
			2 x M25	1.3 (2.87)	4.3 (262.40)	U61W4LG5LR9

① Other configurations available on request. Please contact your local sales representative.

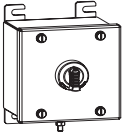
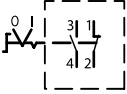
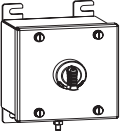

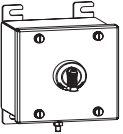
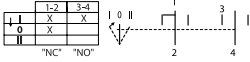
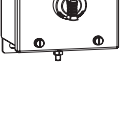

Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 1 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
2-Position Selector Switch (I_{max} = 15A)						
 <p>1 selector switch 2 fixed positions '0 - I' 1NO + 1NC contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2H3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4H3
3-Position Selector Switch (I_{max} = 15A)						
 <p>1 selector switch 3 fixed positions 'I - 0 - II' 2NO contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2J1
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4J1
3-Position Selector Switch (I_{max} = 12A)						
 <p>1 selector switch 3 positions 'I - 0 - II' with spring return from I to 0 1NO + 1NC contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2N3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4N3
 <p>1 selector switch 3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts</p>		Bottom	2 x M20	1.2 (2.65)	4.3 (262.40)	U61W2M3
			2 x M25	1.2 (2.65)	4.3 (262.40)	U61W4M3

Control Stations and Panels

① Other configurations available on request. Please contact your local sales representative.

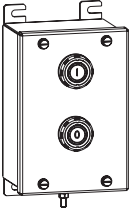

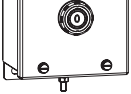
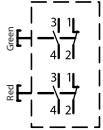
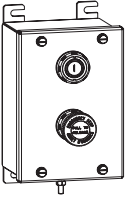
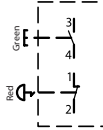
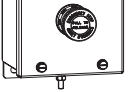
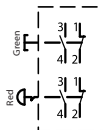
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts.

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Button (Imax = 13A)						
 <p>1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p>		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2A5A9
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4A5A9
 <p>1x green push button 'I' with 1NO + 1NC contact 1x red push button 'O' with 1NO + 1NC contact momentary contacts</p>		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2A3A3
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4A3A3
Push Button + Push-Pull Emergency Stop (Imax 13A)						
 <p>1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull with 1NC maintained contact</p>		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2A5D9
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4A5D9
 <p>1x green push button 'I' with 1NO + 1NC momentary contacts 1x red mushroom head push-pull with 1NO + 1NC maintained contacts</p>		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2A3D3
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4A3D3

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U6 Series Stainless Steel Control Stations

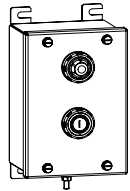
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pilot Light (Umax = 264 Vac/60 Vdc) + Push Button (Imax = 13A)						
1x green light 1x green push button 'I' with 1NO momentary contact		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2PGA5
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4PGA5
1x green light 1x green push button 'I' with 1NO + 1NC momentary contacts		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2PGA3
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4PGA3
1x red light 1x red push button 'O' with 1NC momentary contact		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2PRA9
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4PRA9
1x red light 1x red push button 'O' with 1NO + 1NC momentary contacts		Bottom	2 x M20	1.8 (3.97)	4.3 (262.40)	U62W2PRA3
			2 x M25	1.8 (3.97)	4.3 (262.40)	U62W4PRA3



Control Stations and Panels

① Other configurations available on request. Please contact your local sales representative.

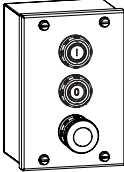
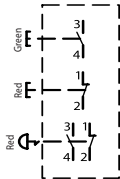
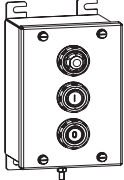
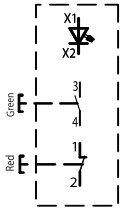
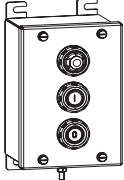
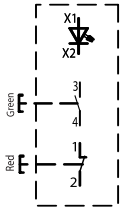
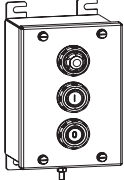
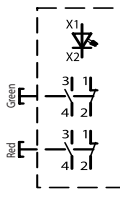
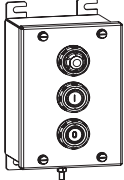
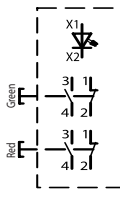
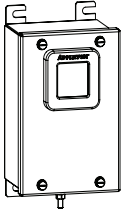
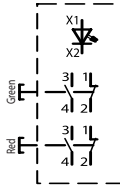
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 2 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop (Imax = 13A)						
 <p>1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact 1x red mushroom head push-pull with 1x NO + 1NC momentary contacts</p>		Bottom	2 x M20	1.9 (4.19)	4.5 (274.6)	U62W2A5A9D9
			2 x M25	1.9 (4.19)	4.5 (274.6)	U62W4A5A9D9
Pilot Light (Umax = 264 Vac/60 Vdc) + Twin Push Buttons (Imax = 13A)						
 <p>1x green light 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC momentary contacts</p>		Bottom	2 x M20	1.9 (4.19)	4.5 (274.60)	U62W2PGA5A9
			2 x M25	1.9 (4.19)	4.5 (274.60)	U62W4PGA5A9
 <p>1x red light 1x green push button 'I' with 1NO 1x red push button 'O' with 1NC momentary contacts</p>		Bottom	2x M20	1.8 (3.97)	4.3 (262.40)	U62W2PRA5A9
			 <p>1x green light 1x green push button 'I' with 1NO + 1NC 1x red push button 'O' with 1NO + 1NC momentary contacts</p>		Bottom	2 x M20
 <p>1x red light 1x green push button 'I' with 1NO + 1NC 1x red push button 'O' with 1NO + 1NC momentary contacts</p>		Bottom				2 x M20
 <p>1 x ammeter 48 x 48 mm 1 A.C.T., 3 F.L.C., with 0-1-3 scale</p>				Bottom	2 x M20	1.8 (3.97)
	2 x M25	1.8 (3.97)			4.3 (262.40)	U62W4CA13

① Other configurations available on request. Please contact your local sales representative.

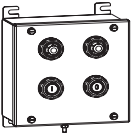
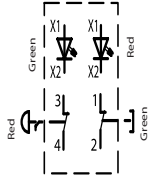
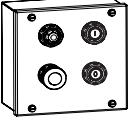
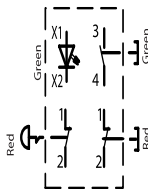
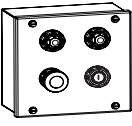
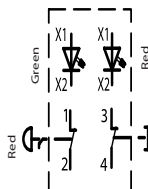
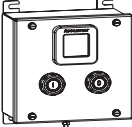
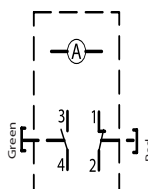
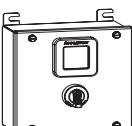
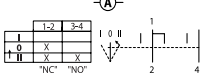
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Size 3 Stainless Steel 316L Control Station ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20/M25 bottom clearance entries, M6 earth stud, 1 blanking plug, 1 polyamide cable gland, 2 locknuts

Description/Function	Diagram	Entry Location	Entry Size	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Pilot Light (Umax = 264 Vac/60 Vdc)+ Twin Push Buttons (Imax = 14A)						
 <p>1x green light 1x red light 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p>	 <p>Bottom</p>	2 x M20	2.1 (4.63)	10.5 (640.70)	U63W2PGPRA5A9	
		2 x M25	2.1 (4.63)	10.5 (640.70)	U63W4PGPRA5A9	
Pilot Light (Umax = 264 Vac/60 Vdc)+ Twin Push Buttons + Push-Pull Emergency Stop (Imax = 14A)						
 <p>1x green light 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull with 1x NC maintained contact</p>	 <p>Bottom</p>	2 x M20	2.1 (4.63)	10.5 (640.70)	U63W2PGA5A9D9	
		2 x M25	2.1 (4.63)	10.5 (640.70)	U63W4PGA5A9D9	
Twin Pilot Lights (Umax = 264 Vac/60 Vdc) + Push-Pull Emergency Stop + Push Button (Imax = 14A)						
 <p>1x green light + 1x red light 1x red mushroom head push-pull with 1x NC maintained contact 1x green push button 'I' with 1NO momentary contact</p>	 <p>Bottom</p>	2 x M20	2.1 (4.63)	10.5 (640.70)	U63W2PGPRD9A5	
		2 x M25	2.1 (4.63)	10.5 (640.70)	U63W4PGPRD9A5	
Ammeter + Twin Push Buttons (Imax = 10A)						
 <p>1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact momentary contacts</p>	 <p>Bottom</p>	2 x M20	2.1 (4.63)	10.5 (640.70)	U63W2CA13A5A9	
		2 x M25	2.1 (4.63)	10.5 (640.70)	U63W4CA13A5A9	
Ammeter + 3 position selector switch (Imax = 10A)						
 <p>1x ammeter 48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x switch 3 positions 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts</p>	 <p>Bottom</p>	2 x M20	2.1 (4.63)	10.5 (640.70)	U63W2CA13M3	
		2 x M25	2.1 (4.63)	10.5 (640.70)	U63W4CA13M3	

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

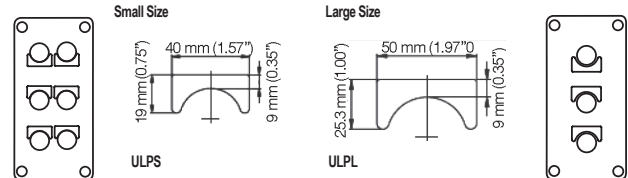
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



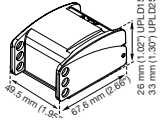



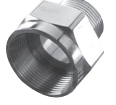



Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O - I	ULPSH01	ULPLH01
ON - OFF	ULPSH02	ULPLH02
START - STOP	ULPSH03	ULPLH03
STOP - START	ULPSH04	ULPLH04
HAND - AUTO	ULPSH05	ULPLH05
MANU - AUTO	ULPSH06	ULPLH06
FORWARD - REVERSE	ULPSH07	ULPLH07
REMOTE - LOCAL	ULPSH08	ULPLH08
MARCHE - ARRET	ULPSH09	ULPLH09
I - O - II	ULPSJ01	ULPLJ01
OFF - O - ON	ULPSJ02	ULPLJ02
START - NORMAL - STOP	ULPSJ03	ULPLJ03
HAND - OFF - AUTO	ULPSJ04	ULPLJ04
MANU - O - AUTO	ULPSJ05	ULPLJ05
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09

Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

	Description	Catalog Number
	<p>Additional Contacts</p> <p>Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum</p> <p>1NO contact</p> <p>1NC contact</p>	<p>UCB5R</p> <p>UCB9R</p>
	<p>Yellow Guard</p> <p>Mushroom head protection for emergency stop</p>	098657
	<p>Padlockable Guard</p> <p>Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm (0.24") maximum (not supplied)</p>	
	<p>For push button and rotary actuator</p> 	UPLD1S
	<p>For mushroom head actuator</p> 	UPLD2S
	<p>Cable Gland Exe</p> <p>For unarmored cable Exe - IP66 - in polyamide with entry thread seal</p> <p>M20 (capacity 5.5-14.5 mm)</p>	20DTSPE1TAL
	<p>For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)</p> <p>Braid and Tape type:</p> <p>M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)</p> <p>Single Wired Armor (SWA):</p> <p>M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)</p>	<p>20E1FX5</p> <p>20E1FW5</p>
	<p>Adaptors</p> <p>Exd/Exe - IP66 in nickel plated brass (without entry thread seal)</p> <p>Male M20 - Female 1/2" NPT</p> <p>Male M20 - Female 3/4" NPT</p>	<p>737DM2T15</p> <p>737DM2T25</p>
	<p>Entry Thread Seal</p> <p>M20 (in white nylon)</p>	20ETS2
	<p>Combination Drain and Breather</p> <p>Exe - IP66 - supplied with entry thread seal and locknut</p> <p>M20 male thread in Polyamide</p> <p>M20 male thread in Brass</p> <p>M20 male thread in Stainless Steel</p>	<p>DBE20P</p> <p>DBE20B</p> <p>DBE20S</p>

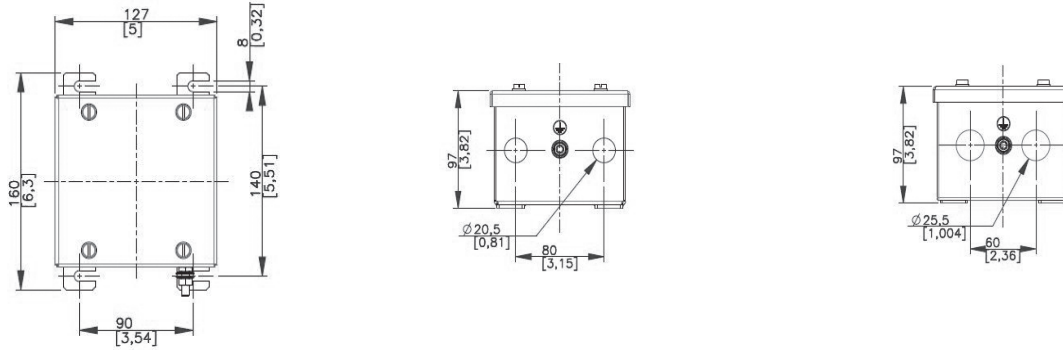
Unicode™ 2 | U6 Series Stainless Steel Control Stations

Increased Safety

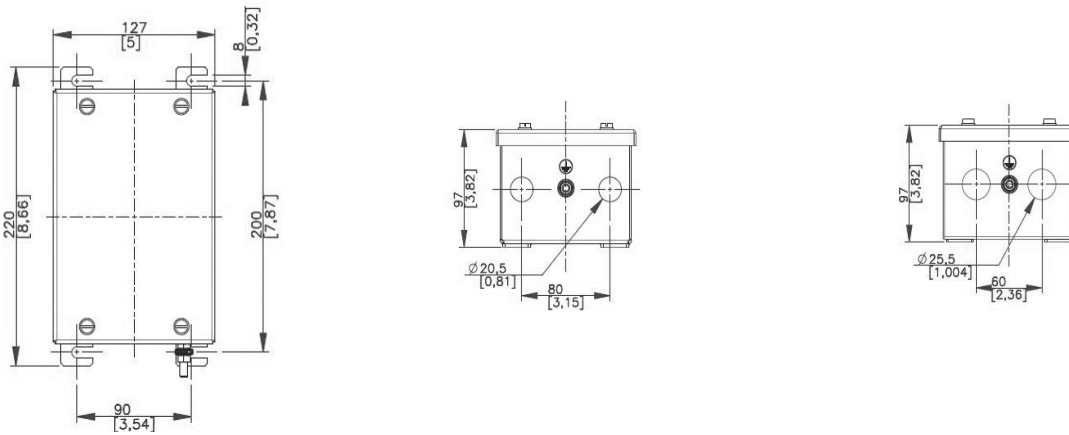
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO, cCSAus Certified

Dimensions in Millimeters (Inches)

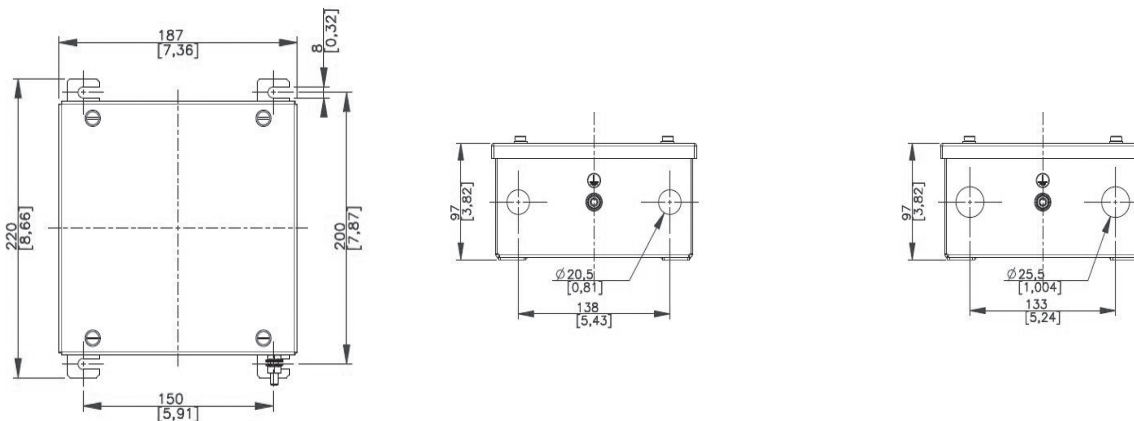
Size 1



Size 2



Size 3



Control Stations and Panels

Unicode™ 2 | Pre-Drilled Control Stations

Increased Safety

Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- For use in washdown areas.

Features

- Enclosures are rated for IP66 with firmly secured gasket.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Polycarbonate
 - Body and cover: polycarbonate, black finish
- Polyester
 - Body and cover: fiberglass reinforced polyester (FRP), black finish.
- Stainless Steel
 - Body and cover: 316L stainless steel, natural finish
- Cable gland and blanking plug: polyamide
- Cover screws: stainless steel
- Nameplate: white self-adhesive laminated plastic

ATEX/IECEx Certifications and Compliances

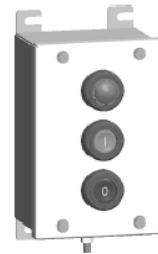
- Polycarbonate
 - Certification Type: U4
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type de Protection : Ex eb IIC, Ex db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T70 °C (T158 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - ATEX Certificate: INERIS 21ATEX0002X
 - IECEx Certificate: IECEx INE 21.0004X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09 (IK10 - contact sales)
- Fiberglass Reinforced Polyester (FRP)
 - Certification Type: : U2
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C / -25 °C (-40 / -13 °F) - (ammeters and voltmeters) to +55 °C (131 °F)
 - ATEX Certificate: INERIS 20ATEX0049X
 - IECEx Certificate: IECEx INE 20.0050X
 - Protection index following EN/IEC 60529: IP66
 - Impact resistance (shock) : IK09



U4 | Polycarbonate



U2 | Fiberglass Reinforced Polyester



U6 | Stainless Steel

- Stainless Steel
 - Certification Type: : U6
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex eb IIC, db eb IIC, Ex eb mb IIC, Ex db eb mb IIC (depending on components) Gb
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C or -25 °C (-40 °F to -13 °F) (ammeters and voltmeters) at +55 °C (-131 °F)
 - ATEX Certificate: INERIS 22ATEX0013X
 - IECEx Certificate: IECEx INE 22.0025X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09

UKEX Certifications

- Certification Type: U4 (polycarbonate)
 - UKEX Certificate: CML21UKEX11411X
- Certification Type: U2 (polyester)
 - UKEX Certificate: CML 21UKEX1151X
- Certification Type: U6 (stainless steel)
 - UKEX Certificate: CML 22UKEX1604X

INMETRO Certifications

- Certification Type: U4 (polycarbonate)
 - INMETRO Certificate: BVC22.4130-X
- Certification Type: U2 (polyester)
 - INMETRO Certificate: BVC 22.4127-X
- Certification Type: U6 (stainless steel)
 - INMETRO Certificate: BVC23.4214-X

Unicode™ 2 | Pre-Drilled Control Stations

Increased Safety

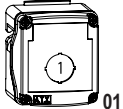
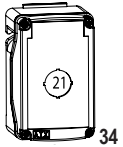
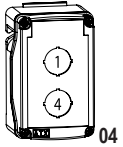
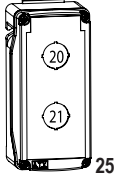
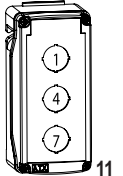
Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Polycarbonate Pre-drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 2 clearance entries at bottom.
 Assembly only with TCe certified type control auxiliaries and UCVe certified type contact blocks and pilot lights. I_{max} = 10A.
 Other configurations on request.



	Description/ Function	Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number 2 Bottom
Size 1 — Pre-Drilled Enclosures					
	For 1 actuator 1 vertical rail	M20	0.7 (1.54)	2.5 (152.56)	U41W201
Size 2 — Pre-Drilled Enclosures					
	For 1 actuator 1 vertical rail	M20	0.9 (1.98)	2.5 (152.56)	U42W234
	For 2 actuators 1 vertical rail	M20	0.9 (1.98)	2.5 (152.56)	U42W204
Size 3 — Pre-Drilled Enclosures					
	For 2 actuators 1 vertical rail	M20	1.0 (2.20)	2.5 (152.56)	U43W225
	For 3 actuators 1 vertical rail	M20	1.0 (2.20)	2.5 (152.56)	U43W211

Control Stations and Panels

Unicode™ 2 | Pre-Drilled Control Stations

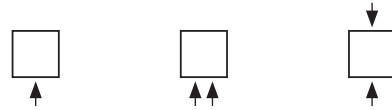
Increased Safety

Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Polyester Pre-Drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries. Assembly only with TCe certified type control auxiliaries and UCVe certified type contact blocks and pilot lights. I_{max} = 9A. Other configurations on request.



Description/ Function	Entries	Weight kg (lb)	Volume dm3 (in3)	Catalog Number			
				1 Bottom	2 Bottom	Feed-Thru	
Size 1 — Pre-Drilled Enclosures							
 01	For 1 actuator 1 horizontal rail	M20	0.8 (1.76)	2.7 (164.76)	U21W101	U21W201	U21U101
		M25			U21W301	U21W401	U21U301
 02	For 2 actuators 1 horizontal rail	M20	0.8 (1.76)	2.7 (164.76)	U21W102	U21W202	U21U102
		M25			U21W302	U21W402	U21U302
Size 2 — Pre-Drilled Enclosures							
 04	For 2 actuators 1 vertical rail	M20	1.0 (2.20)	4.2 (256.30)	U22W104	U22W204	U22U104
		M25			U22W304	U22W404	U22U304
 06	For 3 actuators 2 horizontal rails	M20	1.0 (2.20)	4.2 (256.30)	U22W106	U22W206	U22U106
		M25			U22W306	U22W406	U22U306
 08	For 4 actuators 2 horizontal rails	M20	1.0 (2.20)	4.2 (256.30)	U22W108	U22W208	U22U108
		M25			U22W308	U22W408	U22U308

Unicode™ 2 | Pre-Drilled Control Stations

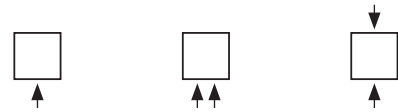
Increased Safety

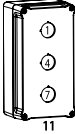
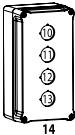
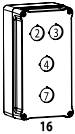
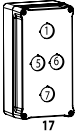
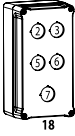
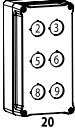
Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Polyester Pre-Drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries. Assembly only with TCE certified type control auxiliaries and UCVe certified type contact blocks and pilot lights. I_{max} = 9A. Other configurations on request.



Description/ Function	Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number			
				1 Bottom	2 Bottom	Feed-Thru	
Size 3 — Pre-Drilled Enclosures — 230 x 120 x 91 (9.06 x 4.72 x 3.58 in)							
	For 3 actuators 1 vertical rail	M20	1.1 (2.43)	4.2 (256.30)	U23W111	U23W211	U23U111
		M25			U23W311	U23W411	U23U311
	For 4 actuators 1 vertical rail	M20	1.1 (2.43)	4.2 (256.30)	U23W114	U23W214	U23U114
		M25			U23W314	U23W414	U23U314
	For 4 actuators 3 horizontal rails	M20	1.1 (2.43)	4.2 (256.30)	U23W116	U23W216	U23U116
		M25			U23W316	U23W416	U23U316
	For 4 actuators 3 horizontal rails	M20	1.1 (2.43)	4.2 (256.30)	U23W117	U23W217	U23U117
		M25			U23W317	U23W417	U23U317
	For 5 actuators 3 horizontal rails	M20	1.1 (2.43)	4.2 (256.30)	U23W118	U23W218	U23U118
		M25			U23W318	U23W418	U23U318
	For 6 actuators 3 horizontal rails	M20	1.1 (2.43)	4.2 (256.30)	U23W120	U23W220	U23U120
		M25			U23W320	U23W420	U23U320

Control Stations and Panels

Unicode™ 2 | Pre-Drilled Control Stations

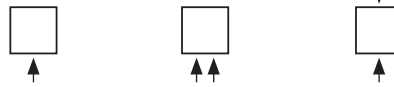
Increased Safety

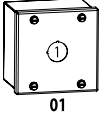
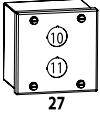
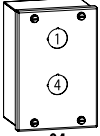
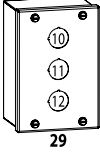
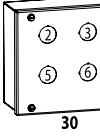
Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Stainless Steel Pre-drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), clearance entries.
Assembly only with TCe certified type control auxiliaries and UCVe certified type contact blocks and pilot lights. I_{max} = 9A. Other configurations on request.



Description/ Function	Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number		
				1 Bottom	2 Bottom	Feed-Thru
Size 1 — Pre-Drilled Enclosures						
 01 For 1 actuator 1 vertical rail	M20	1.0 (2.20)	2.7 (164.76)	U61W101	U61W201	U61U101
	M25			U61W301	U61W401	U61U301
 27 For 2 actuators 1 vertical rail	M20	1.0 (2.20)	2.7 (164.76)	U61W127	U61W227	U61U127
	M25			U61W327	U61W427	U61U327
Size 2 — Pre-Drilled Enclosures						
 04 For 2 actuators 1 vertical rail	M20	1.5 (3.31)	3.6 (219.69)	U62W104	U62W204	U62U104
	M25			U62W304	U62W404	U62U304
 29 For 3 actuators 1 vertical rail	M20	1.5 (3.31)	3.6 (219.69)	U62W129	U62W229	U62U129
	M25			U62W329	U62W429	U62U329
Size 3 — Pre-Drilled Enclosures						
 30 For 4 actuators 2 vertical rails	M20	1.8 (3.97)	5.3 (323.43)	U63W130	U63W230	U63U130
	M25			U63W330	U63W430	U63U330

Unicode™ 2 | Pre-Drilled Control Stations

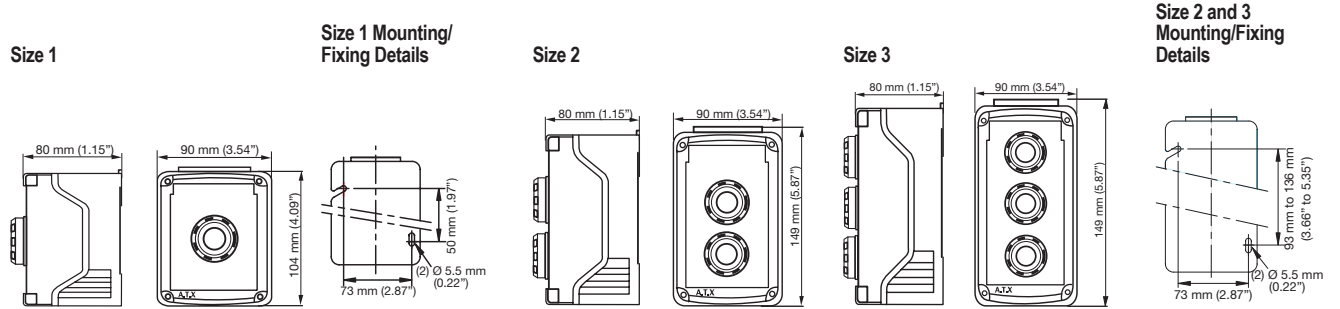
Increased Safety

Polycarbonate, Fiberglass Reinforced Polyester, 316L Stainless Steel

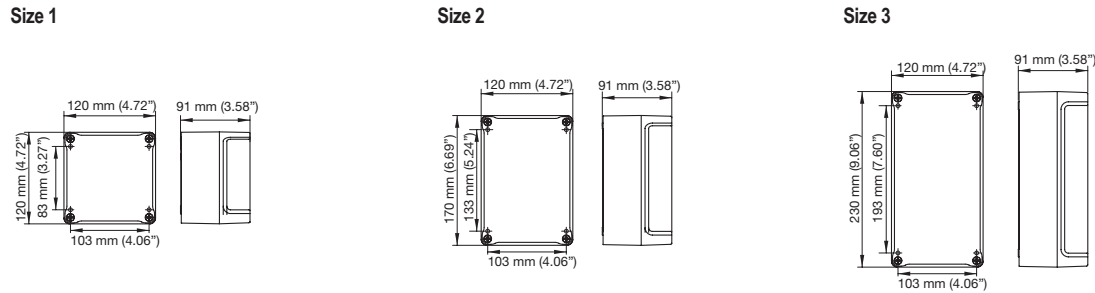
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

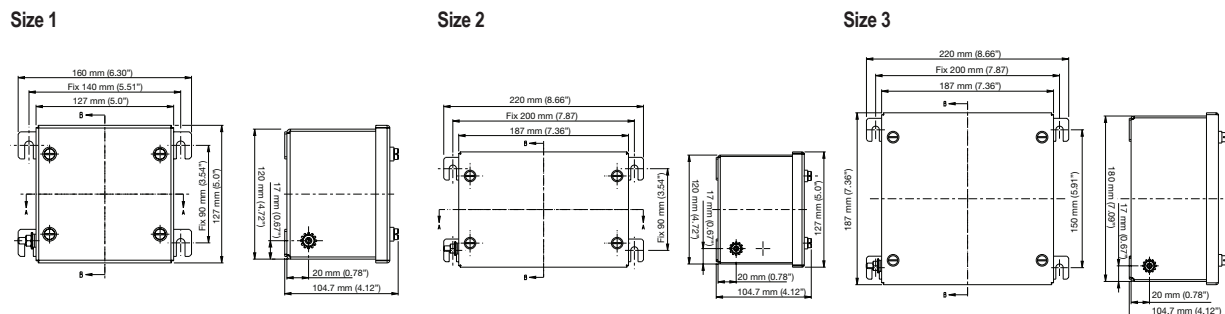
Polycarbonate



Fiberglass Reinforced Polyester Mounting/Fixing Details: Four Holes Ø 5 mm (0.20")



316L Stainless Steel Mounting/Fixing Details: Four Holes Ø 5 mm (0.20")



Control Stations and Panels

AGLCS Series GRP Local Control Stations and Switches

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Application

- Providing local and motor control for hazardous areas in explosive gas Zone 1 and 2 or explosive dust Zone 21 and 22 environments.
- Applicable in wash down areas for indoor or outdoor application where water and dust ingress protection is required.
- Suitable for highly corrosive environment that has either chemical, moist or salt-water (marine outside type) in the surrounding area.
- Push buttons and selector switches provides circuit control and/or selection which are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations.
- Pilot lights gives visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in different field application such as
 - Oil and Gas
 - Petrochemical
 - Pulp and Paper
 - Food & Beverage Processing
 - Water and Wastewater Treatment
 - Power Generation
 - Pharmaceutical Industry
 - Silos and Other Industrial Process Facilities.

Features

- Static resistant black glass reinforced polyester enclosure.
- The high IP rating allows the enclosure to be installed in either indoor or outdoor environments.
- Designed for application with voltage ratings up to 5,500 Vac and rated current up to 1,500A.
- Multiple enclosure size for different control, indicator or selector configurations.
- Utilizes factory sealed (Ex e or de) operators which includes push buttons, illuminated push buttons, ammeter, selector switches, control and load break switches, contact blocks, LED pilot lights, and terminal blocks.
- Using high intensity LED pilot lights which has a lifetime of 100,000 hours, it can be used for inputs with 12 Vac to 254 Vac 50/60 Hz or 12 Vdc to 60 Vdc.
- Operators and contact blocks are properly spaced to have easy and ample space for wiring.
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC 12: 16 Amps/400 Vac
 - AC 14: 10 Amps/400 Vac
 - AC 15: 6 Amps/500 Vac
 - DC 13: 2 Amps/24 Vdc and 1 Amp/110 Vdc
 - NEMA switching capacity: A600: 10 Amp/600 Vac
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amps
 - IEC switching capacity:
 - AC1: 16 Amps/690 Vac
 - AC15: 16 Amps/415 Vac
 - AC3: 8 Amps/500 Vac
 - AC3: 4 Amps/690 Vac
 - AC3: 16 Amps/690 Vac
 - DC1: 10 Amps/24 Vdc
 - DC1: 6 Amps/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
 - NEMA switching capacity: A600: 10 Amps/600 Vac



- Components are DIN rail mounted which is held securely in place during operation and easily removed for service.
- Captive, corrosion resistant stainless steel cover screws.
- Multiple wiring or cable termination with a wide selection of cable glands and union adapters for the entries at 4 sides of the enclosure.

Standard Materials

- Enclosures: glass reinforced polyester
- Gasket: silicone
- Cover screws: stainless steel
- Nameplates: stainless steel or laminated plastic (with different color as special request).

Options

- Mounting plate: supplied in zinc plated steel as standard; stainless steel can be requested as special.
- Nameplates, earth continuity brass plate, blanking plugs, and gable glands are offered as separate items.
- Consult factory for custom drilling, assembly requirements and other accessories.

ATEX/IECEx Certifications and Compliances

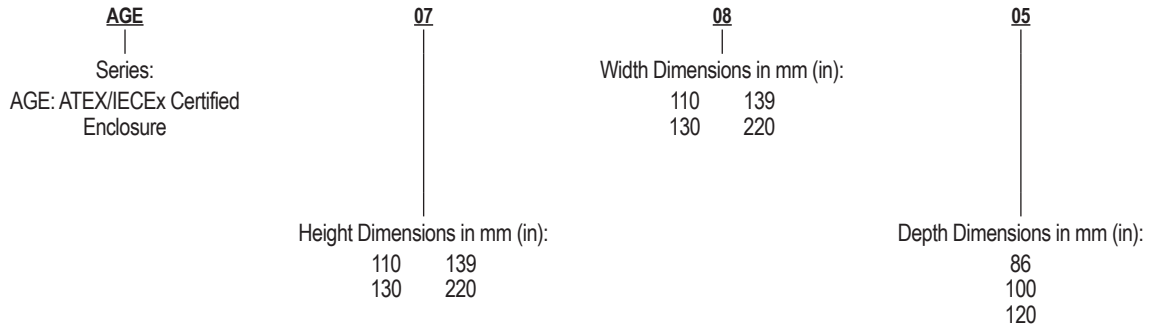
- Gas: Zone 1 and 2
 - Conforming to Directive 2014/34/EU: Ex II 2G
 - Type of Protection:
 - Ex eb IIC T5/T6 Gb,
 - Ex ia IIC T5/T6 Gb,
 - Ex eb ia IIC T5/T6 Gb
 - Temperature Class: T6 to T5
- Dust: Zone 21 and 22
 - Conforming to directive 2014/34/EU: Ex II 2D
 - Type of Protection: Ex tb IIIC T80 °C/T95 °C Db IP66;
 - Surface Temperature: T80 °C to T95 °C (T176 °F to T203 °F)
- Ambient Temperature: -35 °C up to +40 °C/-35 °C up to +55 °C -31 °F up to +104 °F/-31 °F up to +131 °F)
- Operators and contact blocks are properly spaced to have easy and ample space for wiring.
- ATEX Certificate: C € 2460 ExVeritas 18 ATEX 0330X;
C € 2460 ExVeritas 18 ATEX 0327U;
C € 2585 ExVeritas 18 ATEX 0330X;
C € 2585 ExVeritas 18 ATEX 0327U
- IECEx Certificate: IECEx EXV 18.0006X; IECEx EXV 18.0004X
- Ingress Protection: IP66 (According to EN/IEC 60529)

AGLCS Series GRP Local Control Stations and Switches

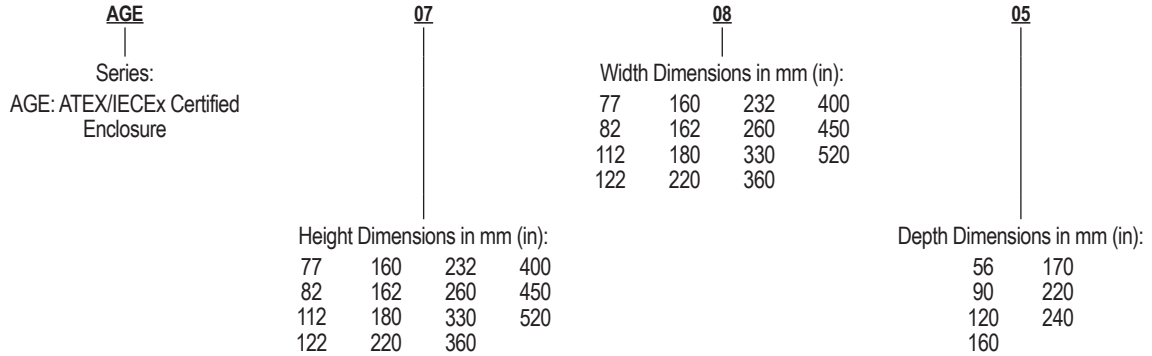
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

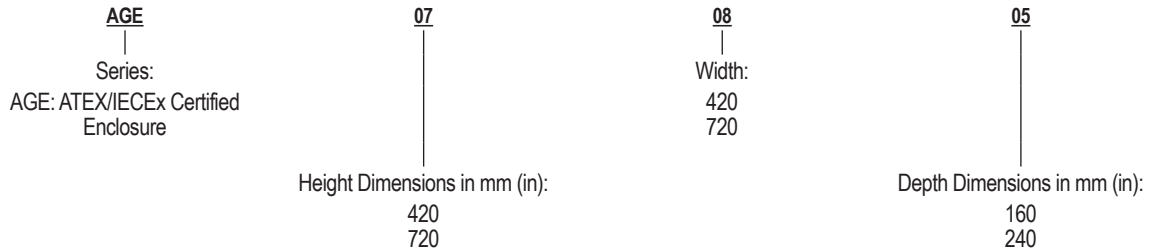
Catalog Numbering Guide — AGLCS Series GRP Local Control Stations and Switches —Type 1



Catalog Numbering Guide — AGLCS Series GRP Local Control Stations and Switches —Type 2



Catalog Numbering Guide — AGE Series GRP Enclosures Boxes —Type 3



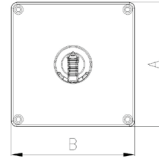
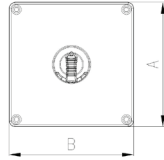
Control Stations and Panels

AGLCS Series GRP Local Control Stations and Switches

Increased Safety

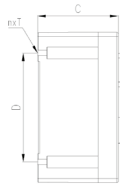
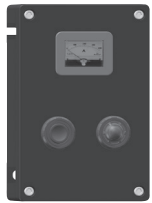
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Enclosure Information — Type 1 — Dimensions in Millimeters (Inches)



A	B	C	D	E	N	T	Catag Number
110 (4.33)	139 (5.47)	100 (3.93)	96 (3.78)	91 (3.58)	2 (0.08)	Ø 6 (0.24)	AGLCS111410
130 (5.12)	130 (5.12)	86 (3.39)	86 (3.39)	116 (4.57)	2 (0.08)	Ø 6 (0.24)	AGLCS131308
130 (5.12)	220 (8.66)	120 (4.72)	116 (4.57)	172 (6.77)	2 (0.08)	Ø 6 (0.24)	AGLCS132212
139 (5.47)	110 (4.33)	100 (3.93)	91 (3.58)	96 (3.78)	2 (0.08)	Ø 6 (0.24)	AGLCS141110
220 (8.66)	130 (5.12)	120 (4.72)	172 (6.77)	116 (4.57)	2 (0.08)	Ø 6 (0.24)	AGLCS221312

Enclosure Information — Type 2 — Dimensions in Millimeters (Inches)



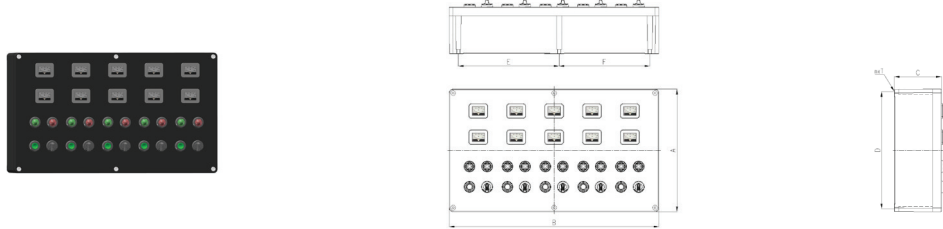
A	B	C	D	E	N	T	Catag Number
122 (4.80)	220 (8.66)	90 (3.54)	82 (3.23)	204 (8.03)	4 (0.16)	Ø 6 (0.24)	AGLCS122209
160 (6.30)	260 (10.24)	90 (3.54)	110 (4.33)	239 (9.41)	4 (0.16)	Ø 6 (0.24)	AGLCS162609
160 (6.30)	360 (14.17)	90 (3.54)	112 (4.41)	340 (13.39)	4 (0.16)	Ø 6 (0.24)	AGLCS163609
180 (7.09)	260 (10.24)	120 (4.72)	163 (6.42)	200 (7.87)	4 (0.16)	Ø 7 (0.28)	AGLCS182612
220 (8.66)	122 (4.80)	90 (3.54)	204 (8.03)	82 (3.23)	4 (0.16)	Ø 6 (0.24)	AGLCS221209
220 (8.66)	360 (14.17)	120 (4.72)	200 (7.87)	296 (11.65)	4 (0.16)	Ø 9 (0.35)	AGLCS223612
220 (8.66)	360 (14.17)	170 (6.69)	200 (7.87)	296 (11.65)	4 (0.16)	Ø 9 (0.35)	AGLCS223617
260 (10.24)	160 (6.30)	90 (3.54)	239 (9.41)	110 (4.33)	4 (0.16)	Ø 6 (0.24)	AGLCS261609
260 (10.24)	180 (7.09)	120 (4.72)	200 (7.87)	163 (6.42)	4 (0.16)	Ø 7 (0.28)	AGLCS261812
330 (12.99)	450 (17.72)	160 (6.30)	304 (11.97)	379 (14.92)	4 (0.16)	Ø 9 (0.35)	AGLCS334516
330 (12.99)	450 (17.72)	240 (9.45)	304 (11.97)	379 (14.92)	4 (0.16)	Ø 9 (0.35)	AGLCS334524
360 (14.17)	160 (6.30)	90 (3.54)	340 (13.39)	112 (4.41)	4 (0.16)	Ø 6 (0.24)	AGLCS361609
360 (14.17)	220 (8.66)	120 (4.72)	296 (11.65)	200 (7.87)	4 (0.16)	Ø 9 (0.35)	AGLCS362212
360 (14.17)	220 (8.66)	170 (6.69)	296 (11.65)	200 (7.87)	4 (0.16)	Ø 9 (0.35)	AGLCS362217
360 (14.17)	360 (14.17)	120 (4.72)	297 (11.69)	340 (13.39)	4 (0.16)	Ø 9 (0.35)	AGLCS363612
360 (14.17)	360 (14.17)	170 (6.69)	297 (11.69)	340 (13.39)	4 (0.16)	Ø 9 (0.35)	AGLCS363617
400 (15.75)	520 (9.84)	220 (8.66)	383 (15.08)	45 (1.77)	4 (0.16)	Ø 10 (0.39)	AGLCS405222
450 (17.72)	330 (12.99)	160 (6.30)	379 (14.92)	304 (11.97)	4 (0.16)	Ø 9 (0.35)	AGLCS453316
450 (17.72)	330 (12.99)	240 (9.45)	379 (14.92)	304 (11.97)	4 (0.16)	Ø 9 (0.35)	AGLCS453324
520 (9.84)	400 (15.75)	220 (8.66)	457 (17.99)	383 (15.08)	4 (0.16)	Ø 10 (0.39)	AGLCS524022

AGLCS Series GRP Local Control Stations and Switches

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

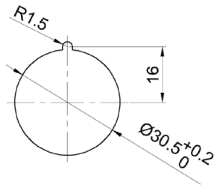
Enclosure Information — Type 3 — Dimensions in Millimeters (Inches)



A	B	C	D	E	F	N	T	Catalog Number
420 (16.54)	720 (28.35)	160 (6.30)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGLCS427216
420 (16.54)	720 (28.35)	240 (9.45)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGLCS427224
720 (28.35)	420 (16.54)	160 (6.30)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGLCS724216
720 (28.35)	420 (16.54)	240 (9.45)	401 (15.79)	311 (12.24)	346 (13.62)	6 (0.24)	Ø 10 (0.39)	AGLCS724224

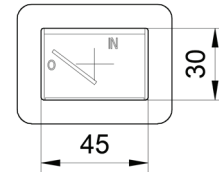
Configuration Information ①

The maximum configuration drawing is for visual illustration only, actual product may vary depending on the customized configuration of operator and controls.



Clearance hole for operators and illuminated controls

(i.e. Push button, Push-pull emergency stop, Mushroom-head push button, Key push button, Pilot light and selector switches).



Clearance opening for ammeter

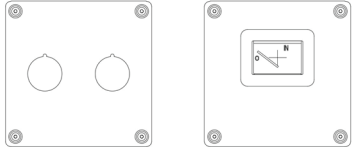
Max configuration	Maximum Qty of Holes		H x W x D Dimension in mm (in)	Catalog Number
	Push button	Ammeter		
	2	–	110 x 139 x 100 (4.33 x 5.47 x 3.94)	AGLCS111410
	–	1	139 x 110 x 100 (5.47 x 4.33 x 3.94)	AGLCS141110

① Please consult with our sales office for local control station with different configurations.

AGLCS Series GRP Local Control Stations and Switches

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Max configuration	Maximum qty of holes		H x W x D Dimension in mm (in)	Catalog number
	Push button	Ammeter		
	4	–	122 x 220 x 90 (4.80 x 8.66 x 3.54)	AGLCS122209
	–	3	220 x 122 x 90 (8.66 x 4.80 x 3.54)	AGLCS221209
	2	–	130 x 130 x 86 (5.12 x 5.12 x 3.39)	AGLCS131308
	–	1		
	4	–	130 x 220 x 120 (5.12 x 8.66 x 4.72)	AGLCS132212
	–	3	220 x 130 x 120 (8.66 x 5.12 x 4.72)	AGLCS221312
	9	–	160 x 260 x 90 (6.30 x 10.24 x 3.54)	AGLCS162609
	–	6	260 x 160 x 90 (10.24 x 6.30 x 3.54)	AGLCS261609
	12	–	160 x 360 x 90 (6.30 x 14.17 x 3.54)	AGLCS163609
	–	10	360 x 160 x 90 (14.17 x 6.30 x 3.54)	AGLCS361609
	10	–	180 x 260 x 120 (7.09 x 10.24 x 4.72)	AGLCS182612
	–	6	260 x 180 x 120 (10.24 x 7.09 x 4.72)	AGLCS261812

Note:

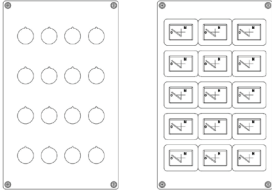
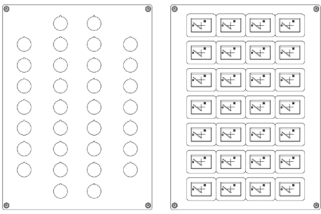
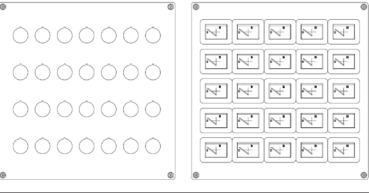
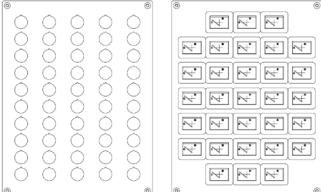
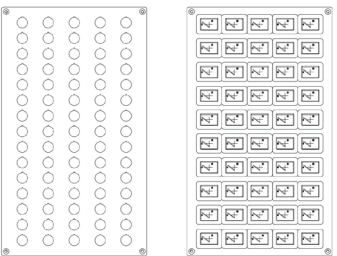
– The maximum configuration drawing is for visual illustration only, actual product may vary depending on the customized configuration of operator and controls.

– Please consult with our sales office for local control station with different configurations.

AGLCS Series GRP Local Control Stations and Switches

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Max configuration	Maximum qty of holes		H x W x D Dimension in mm (in)	Catalog number
	Push button	Ammeter		
	16	–	220 x 360 x 120 (8.66 x 14.17 x 4.72)	AGLCS223612
	–	15	360 x 220 x 120 (14.17 x 8.66 x 4.72)	AGLCS362212
	–	–	220 x 360 x 170 (8.66 x 14.17 x 6.69)	AGLCS223617
	–	–	360 x 220 x 170 (14.17 x 8.66 x 6.69)	AGLCS362217
	32	–	330 x 450 x 160 (12.99 x 17.72 x 6.30)	AGLCS334516
	–	–	450 x 330 x 160 (17.72 x 12.99 x 6.30)	AGLCS453316
	–	28	330 x 450 x 240 (12.99 x 17.72 x 9.45)	AGLCS334524
	–	–	450 x 330 x 240 (17.72 x 12.99 x 9.45)	AGLCS453324
	28	–	360 x 360 x 120 (14.17 x 14.17 x 4.72)	AGLCS363612
	–	25	360 x 360 x 170 (14.17 x 14.17 x 6.69)	AGLCS363617
	50	–	400 x 520 x 220 (15.75 x 9.84 x 8.66)	AGLCS405222
	–	31	520 x 400 x 220 (9.84 x 15.75 x 8.66)	AGLCS524022
	75	–	420 x 720 x 160 (16.54 x 28.35 x 6.30)	AGLCS427216
	–	–	720 x 420 x 160 (28.35 x 16.54 x 6.30)	AGLCS724216
	–	–	420 x 720 x 240 (16.54 x 28.35 x 9.45)	AGLCS427224
	–	50	720 x 420 x 240 (28.35 x 16.54 x 9.45)	AGLCS724224

Control Stations and Panels

Note:

– The maximum configuration drawing is for visual illustration only, actual product may vary depending on the customized configuration of operator and controls.
 – Please consult with our sales office for local control station with different configurations.

ASLCS Series Stainless Steel Control Station

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Application

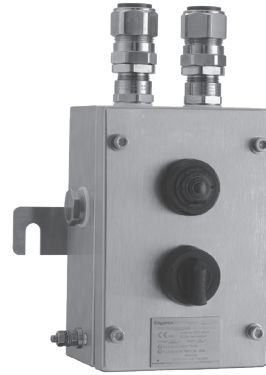
- Local control stations and motor control stations for use in hazardous area.
- Control of equipment for use in Zone 1 or Zone 2 areas, where flammable gases or vapors are present either continuously or intermittently such as:
 - Petroleum
 - Chemical
 - Other industrial process facilities.
- Designed for use in Zone 21 or Zone 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Pharmaceutical industry
 - Silos and other facilities.
- Ideal for wet or corrosive atmospheres.
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.

Features

- With the rating of IP66, it's applicable to the indoor and outdoor environment, such as sea and moist environment.
- Weld joint is smooth and continuous.
- Several sizes and specifications are available.
- Cam Locker is made of stainless steel with excellent corrosion resistance, IP66.
- The Cable Gland Plate is made of 3mm thickness and supplied with self-adhesive gasket.
- The sealing strip is made of PUR materials without breakpoints, having superior IP rating (IP66), superb recovery and sealing performance. Silicon foaming gasket is optional.
- Employs Ex (factory sealed) operators including push buttons, illuminated push buttons, Ammeter, selector switches, control and load break switches, contact blocks, pilot lights(LED), and terminal blocks that can be used at 12VAC to 254VAC 50/60 Hz, or 12VDC to 60VDC or 110VDC/120VDC.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours.
- Operators and contact blocks are spaced so as to have easy and ample space for wiring.
- Wide selection of cable glands, union adapter entries at 4 sides.

Standard Materials

- Enclosures: 304/316L stainless steel and steel sheet, satin-finished after machining to ensure the smooth surface.
- Cable gland plate: 3 mm (0.12 in) thick, 304/316L stainless steel, with self-adhesive gasket
- Mounting plate: supplied in zinc plated steel as standard; stainless steel can be requested as special
- Cam locker: stainless steel



Accessories

- Mounting plate
- Rail mounting
- Cam lock and key
- Inside pocket
- Refer to technical data to define permitted number of electrical components and cable entries acceptance.

ATEX/IECEx Certifications and Compliances

- Gas: Zone 1 and 2
 - Conforming to directive 2014/34/EU: $\text{Ex} \text{ II } 2 \text{ G}$
 - Type of protection: Ex eb * IIC T** Ta -35 °C to +40 °C/55 °C
 - Temperature class: T6 to T5
 - Dust: Zone 21 and Zone 22
 - Conforming to directive 2014/34/EU: $\text{Ex} \text{ II } 2 \text{ D}$
 - Type of protection: Ex tb IIIC T80 °C/95 °C Db IP66
 - Temperature class: T80°C to T95°C
 - Ambient temperature: -35°C ~+40°C/+55°C
 - ATEX certificate: **C E** 2585 ExVeritas 17 ATEX 0297X
 - IECEx certificate: IECEx EXV 17.0027X
 - Ingress protection: According to EN/ICC 60529: IP66
 - Impact Resistance (shock): IK10.

* The coding is dependent on the individual coding of the components installed.

** Temperature classification T5 or T6 depending upon power dissipation indicated in the certificate.

ASLCS Series Stainless Steel Control Station

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — ASLCS Series Increased Safety Control Station

Note : The hinge and Cam Lock type is provided for the box with specification of 220 mm (8.66 in) (H) x 180 mm (7.09 in) (W) or above for options.
The Cable Gland Plate is provided for the box with specification of 220 mm (8.66 in) (H) x 260 mm (10.24 in) (W) or above for options.

ASLCS	26	22	15	4	0	B
Series: ASLCS - ASLCS Control Station	Width Dimensions in mm (in)			Material	Cover type	
	12 - 120 (4.72)	56 - 560 (22.05)		4 - SS 304	B - Only Bolt	
	18 - 180 (7.09)	75 - 750 (29.53)		6 - SS 316L	H - Hinges + Bolt	
	22 - 220 (8.66)	80 - 800 (3.15)			L - Cam Lock + Hinge	
	26 - 260 (10.24)	97 - 970 (38.19)				
	37 - 370 (14.57)					
	Height Dimensions in mm (in)		Depth Dimensions in mm (in)		Cable Gland Plate	
	12 - 120 (4.72)	56 - 560 (22.05)	95 - 95 (3.74)	30 - 300 (11.81)	0 - None	
	18 - 180 (7.09)	75 - 750 (29.53)	15 - 150 (5.91)	35 - 350 (13.78)	1 - 1 x Bottom/Top	
	22 - 220 (8.66)	10 - 1000 (39.37)	20 - 200 (7.87)	40 - 400 (15.75)	2 - 1 x Bottom + 1 x Top; or 1 x Left + 1 x Right	
	26 - 260 (10.24)	12 - 1200 (47.24)	25 - 250 (9.84)		3 - 1 x Left + 1 x Right + 1 x Bottom/Top	
	37 - 370 (14.57)				4 - All 4 sides	
					5 - Others	

Maximum Configuration

Note: The information is only for reference. For Power LCS application, please consult sales office.
Hole for Push Button, Push-Pull Emergency Stop, Mushroom Head Push Button, Key Push Button, Pilot Light, Selector Switch

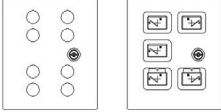
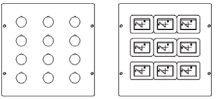

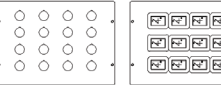




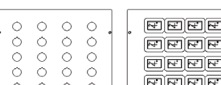
Max configuration	Maximum Qty of Holes		Box Dimensions in mm (in)		Catalog Number
	Push Button	Ammeter	H x W x D		
	1	–	120x120x95 (4.72x4.72x3.74)		ASLCS121295xxB
	1	–	120x120x150 (4.72x4.72x5.91)		ASLCS121215xxB
	3	–	180x120x95 (7.09x4.72x3.74)		ASLCS181295xxB
	3	–	180x120x150 (7.09x4.72x5.91)		ASLCS181215xxB
	6	–	180x180x95 (7.09x7.09x3.74)		ASLCS181895xxB
	2	1			
	6	–	180x180x150 (7.09x7.09x5.91)		ASLCS181815xxB
	2	1			
	5	–	220x180x95 (8.66x7.09x3.74)		ASLCS221895xxB
	3	1			
	5	–	220x180x150 (8.66x7.09x5.91)		ASLCS221815xxB
	3	1			
	6	–	220x220x150 (8.66x8.66x5.91)		ASLCS222215xxB
	–	4			
	6	–	220x220x200 (8.66x8.66x8.66)		ASLCS222220xxB
	–	4			
	8	–	260x220x150 (10.24x8.66x5.91)		ASLCS262215xxB
	–	6			
	8	–	260x220x200 (10.24x8.66x7.87)		ASLCS262220xxB
	–	6			
	8	–	260x220x300 (10.24x8.66x11.81)		ASLCS262230xxB
	–	6			

Control Stations and Panels

ASLCS Series Stainless Steel Control Station

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

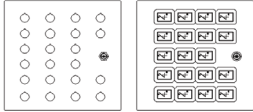
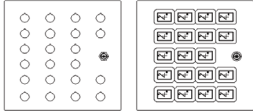
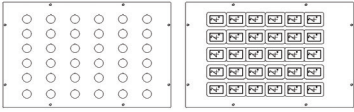
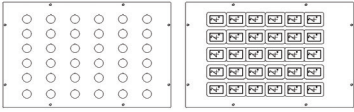
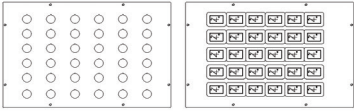
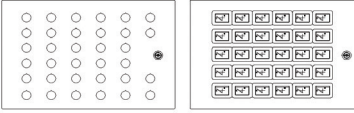
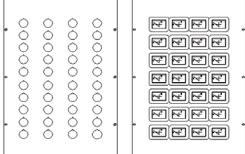
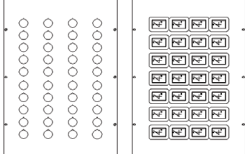
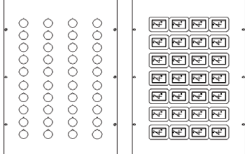
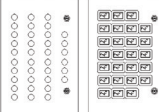
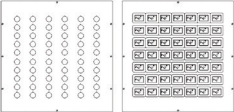
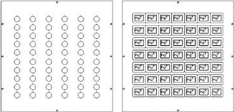
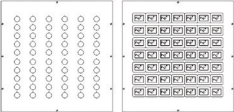
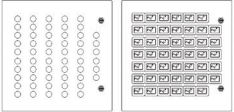
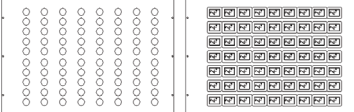
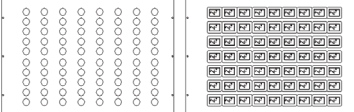
Max configuration	Maximum Qty of Holes		Box Dimensions in mm (in) (H x W x D)	Catalog Number
	Push Button	Ammeter		
	8	–	260x220x150 (10.24x8.66x5.91)	ASLCS262215xxL
	–	5		
	8	–	260x220x200 (10.24x8.66x7.87)	ASLCS262220xxL
	–	5		
	8	–	260x220x300 (10.24x8.66x11.81)	ASLCS262230xxL
	–	5		
	12	–	260x260x150 (10.24x10.24x5.91)	ASLCS262615xxB
	–	9		ASLCS262615xxH
	12	–	260x260x200 (10.24x10.24x7.87)	ASLCS262620xxB
	–	9		ASLCS262620xxH
	12	–	260x260x300 (10.24x10.24x11.81)	ASLCS262630xxB
	–	9		ASLCS262630xxH
	10	–	260x260x150 (10.24x10.24x5.91)	ASLCS262615xxL
	–	8		
	10	–	260x260x200 (10.24x10.24x7.87)	ASLCS262620xxL
	–	8		
	10	–	260x260x300 (10.24x10.24x11.81)	ASLCS262630xxL
	–	8		
	16	–	260x370x150 (10.24x14.57x5.91)	ASLCS263715xxB
	–	12		ASLCS263715xxH
	16	–	260x370x200 (10.24x14.57x7.87)	ASLCS263720xxB
	–	12		ALCS263720xxH
	16	–	260x370x300 (10.24x14.57x11.81)	ASLCS263730xxB
	–	12		ASLCS263730xxH
	10	–	370x220x150 (14.57x8.66x5.91)	ASLCS372215xxL
	–	9		
	10	–	370x220x200 (14.57x8.66x7.87)	ASLCS372220xxL
	–	9		
	10	–	370x220x300 (14.57x8.66x11.81)	ASLCS372230xxL
	–	9		
	18	–	370x260x150 (14.57x10.24x5.91)	ASLCS372615xxB
	–	15		ASLCS372615xxH
	18	–	370x260x200 (14.57x10.24x7.87)	ASLCS372620xxB
	–	15		ASLCS372620xxH
	18	–	370x260x300 (14.57x10.24x11.81)	ASLCS372630xxB
	–	15		ASLCS372630xxH
	16	–	370x260x150 (14.57x10.24x5.91)	ASLCS372615xxL
	–	14		
	16	–	370x260x200 (14.57x10.24x7.87)	ASLCS372620xxL
	–	14		
	16	–	370x260x300 (14.57x10.24x11.81)	ASLCS372630xxL
	–	14		
	24	–	370x370x150 (14.57x14.57x5.91)	ASLCS373715xxB
	–	20		ASLCS373715xxH
	24	–	370x370x200 (14.57x14.57x7.87)	ASLCS373720xxB
	–	20		ASLCS373720xxH
	24	–	370x370x300 (14.57x14.57x11.81)	ASLCS373730xxB
	–	20		ASLCS373730xxH

Control Stations and Panels

ASLCS Series Stainless Steel Control Station

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

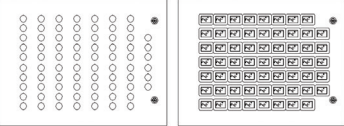
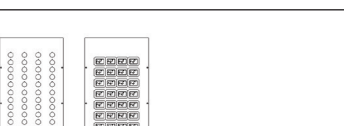


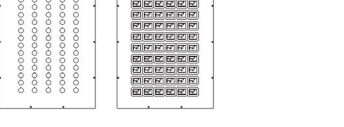
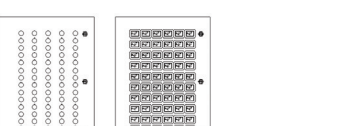




Max configuration	Maximum Qty of Holes		Box Dimensions in mm (in) (H x W x D)	Catalog Number
	Push Button	Ammeter		
	22	–	370x370x150 (14.57x14.57x5.91)	ASLCS373715xxL
	–	19		
	22	–	370x370x200 (14.57x14.57x7.87)	ASLCS373720xxL
	–	19		
	22	–	370x370x300 (14.57x14.57x11.81)	ASLCS373730xxL
	–	19		
	36	–	370x560x150 (14.57x22.05x5.91)	ASLCS375615xxB
	–	30		ASLCS375615xxH
	36	–	370x560x200 (14.57x22.05x7.87)	ASLCS375620xxB
	–	30		ASLCS375620xxH
	36	–	370x560x300 (14.57x22.05x11.81)	ASLCS375630xxB
	–	30		ASLCS375630xxH
	36	–	370x560x150 (14.57x22.05x5.91)	ASLCS375615xxL
	–	30		
	34	–	370x560x200 (14.57x22.05x7.87)	ASLCS375620xxL
	–	30		
	34	–	370x560x300 (14.57x22.05x11.81)	ASLCS375630xxL
	–	30		
	40	–	560x370x150 (22.05x14.57x5.91)	ASLCS563715xxB
	–	28		ASLCS563715xxH
	40	–	560x370x200 (22.05x14.57x7.87)	ASLCS563720xxB
	–	28		ASLCS563720xxH
	40	–	560x370x300 (22.05x14.57x11.81)	ASLCS563730xxB
	–	28		ASLCS563730xxH
	40	–	560x370x150 (22.05x14.57x5.91)	ASLCS563715xxL
	–	26		
	36	–	560x370x200 (22.05x14.57x7.87)	ASLCS563720xxL
	–	26		
	36	–	560x370x300 (22.05x14.57x11.81)	ASLCS563730xxL
	–	26		
	60	–	560x560x150 (22.05x22.05x5.91)	ASLCS565615xxB
	–	49		ASLCS565615xxH
	60	–	560x560x200 (22.05x22.05x7.87)	ASLCS565620xxB
	–	49		ASLCS565620xxH
	60	–	560x560x300 (22.05x22.05x11.81)	ASLCS565630xxB
	–	49		ASLCS565630xxH
	60	–	560x560x150 (22.05x22.05x5.91)	ASLCS565615xxL
	–	47		
	56	–	560x560x200 (22.05x22.05x7.87)	ASLCS565620xxL
	–	47		
	56	–	560x560x300 (22.05x22.05x11.81)	ASLCS565630xxL
	–	47		
	80	–	560x750x150 (22.05x29.53x5.91)	ASLCS567515xxB
	–	63		ASLCS567515xxH
	80	–	560x750x200 (22.05x29.53x7.87)	ASLCS567520xxB
	–	63		ASLCS567520xxH
	80	–	560x750x300 (22.05x29.53x11.81)	ASLCS567530xxB
	–	63		ASLCS567530xxH

Control Stations and Panels

ASLCS Series Stainless Steel Control Station

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Max configuration	Maximum Qty of Holes		Box Dimensions in mm (in) (H x W x D)	Catalog Number
	Push Button	Ammeter		
	76	–	560x750x150 (22.05x29.53x5.91)	ASLCS567515xxL
	–	61		
	76	–	560x750x200 (22.05x29.53x7.87)	ASLCS567520xxL
	–	61		
	76	–	560x750x300 (22.05x29.53x11.81)	ASLCS567530xxL
	–	61		
	56	–	750x370x150 (29.53x14.57x5.91)	ASLCS753715xxB
	–	36		ASLCS753715xxH
	56	–	750x370x200 (29.53x14.57x7.87)	ASLCS753720xxB
	–	36		ASLCS753720xxH
	56	–	750x370x300 (29.53x14.57x11.81)	ASLCS753730xxB
	–	36		ASLCS753730xxH
	50	–	750x370x150 (29.53x14.57x5.91)	ASLCS753715xxL
	–	33		
	50	–	750x370x200 (29.53x14.57x7.87)	ASLCS753720xxL
	–	33		
	50	–	750x370x300 (29.53x14.57x11.81)	ASLCS753730xxL
	–	33		
	70	–	750x560x150 (29.53x22.05x5.91)	ASLCS755615xxB
	–	60		ASLCS755615xxH
	70	–	750x560x200 (29.53x22.05x7.87)	ASLCS755620xxB
	–	60		ASLCS755620xxH
	70	–	750x560x300 (29.53x22.05x11.81)	ASLCS755630xxB
	–	60		ASLCS755630xxH
	70	–	750x560x150 (29.53x22.05x5.91)	ASLCS755615xxL
	–	60		
	70	–	750x560x200 (29.53x22.05x7.87)	ASLCS755620xxL
	–	60		
	70	–	750x560x300 (29.53x22.05x11.81)	ASLCS755630xxL
	–	60		

Control Stations and Panels

Unicode™ 2 Components | Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Features

- Can be equipped with up to three Unicode 2 Series Contact Blocks (UCB) Series contact blocks.
- ATEX, IECEX, cCSAus Certified
- Available in TS35 rail mounted or panel mounted.

Standard Materials

- Body: polyamide
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

- Certification Type: TCe
 - Operating Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEX Certifications and Compliances

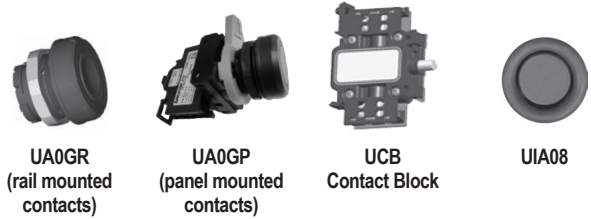
- Certification Type: TCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
- Service Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
- ATEX Certificate: LCIE 09 ATEX 3010U
- IECEX Certificate: IECEX LCI 09.0011U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

UKEX Certifications

- UKEX Certificate: CML21UKEX3196U

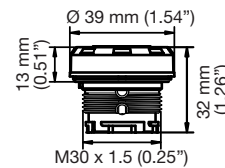
INMETRO Certifications

- INMETRO Certificate: BVC 10.0044-U

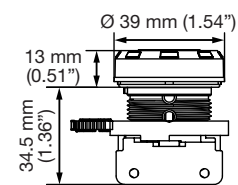


Dimensions in Millimeters (Inches)

Rail Mounted Contacts



Panel Mounted Contacts



① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

	Weight in kg (lbs)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Spring Return - Push Button (contact block to be ordered separately) For legend plates, guards and blanking plugs see accessories pages.							
Red + Green	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0RGR	UA0RGP
Green	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0GR	UA0GP
Red	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0RR	UA0RP
White	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0WR	UA0WP
Blue	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0BR	UA0BP
Yellow	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0YR	UA0YP
Black	0.03 (0.06)	0.05 (0.11)	0.06 (3.66)	0.17 (10.37)	1	UA0NR	UA0NP
1-Pole Contact Blocks							
1 x NO	0.032 (0.071)		0.06 (3.66)		1	UCB5R	UCB5P
1 x NC						UCB9R	UCB9P
Spare Parts							
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	UPMA	

Marking	Color	Weight kg (lb)	Volume dm ³ (in ³)	Pack	Catalog Number
Set of Five Spare Inserts					
(unmarked)	Green	0.01 (0.02)	0.01 (0.61)	1	UIAG
(unmarked)	Red	0.01 (0.02)	0.01 (0.61)	1	UIAR
(unmarked)	Yellow	0.01 (0.02)	0.01 (0.61)	1	UIAY
(unmarked)	White	0.01 (0.02)	0.01 (0.61)	1	UIAW
(unmarked)	Blue	0.01 (0.02)	0.01 (0.61)	1	UIAB
(unmarked)	Black	0.01 (0.02)	0.01 (0.61)	1	UIAN
ON	Green	0.01 (0.02)	0.01 (0.61)	1	UIA01
OFF	Red	0.01 (0.02)	0.01 (0.61)	1	UIA02
START	Green	0.01 (0.02)	0.01 (0.61)	1	UIA03
STOP	Red	0.01 (0.02)	0.01 (0.61)	1	UIA04
MARCHE	Green	0.01 (0.02)	0.01 (0.61)	1	UIA05
ARRET	Red	0.01 (0.02)	0.01 (0.61)	1	UIA06
I	Green	0.01 (0.02)	0.01 (0.61)	1	UIA07
O	Red	0.01 (0.02)	0.01 (0.61)	1	UIA08

Unicode™ 2 Components | Mushroom Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Features

- Can be equipped with up to three Unicode 2 Series Contact Blocks (UCB) contact blocks.
- ATEX, IECEX and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.

Standard Materials

- Body: polyamide
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

- Certification Type: TCe
 - Operating Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEX Certifications and Compliances

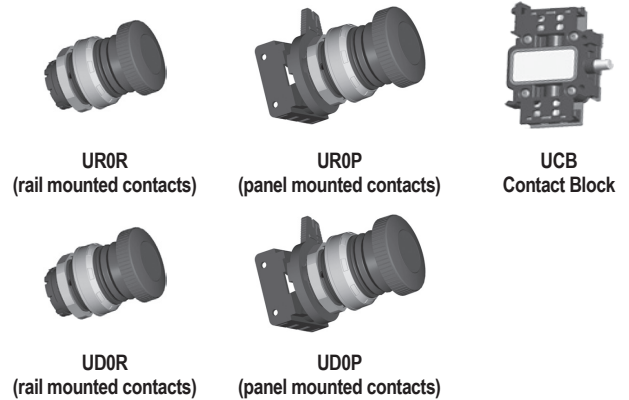
- Certification Type: TCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
- Service Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
- ATEX Certificate: LCIE 09 ATEX 3010U
- IECEX Certificate: IECEX LCI 09.0011U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

UKEX Certifications

- UKEX Certificate: CML 21UKEX3196U

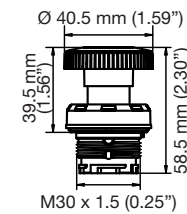
INMETRO Certifications

- INMETRO Certificate: BVC 10.0044-U

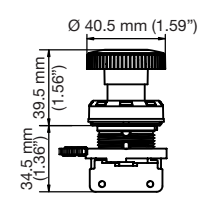


Dimensions in Millimeters (Inches)

Rail Mounted Contacts



Panel Mounted Contacts



Control Stations and Panels

① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | Mushroom Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Spring Return Mushroom Head Push Button (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
Red	0.045 (0.099)	0.06 (0.13)	0.26 (15.87)	0.12 (7.32)	1	UR0R	UR0P
Black	0.045 (0.099)	0.06 (0.13)	0.26 (15.87)	0.12 (7.32)	1	UB0R	UB0P
Push-Pull Mushroom Head Push Button (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
Red Emergency Stop	0.045 (0.099)	0.06 (0.13)	0.12 (7.32)	0.26 (15.87)	1	UD0R	UD0P
1-Pole Contact Blocks							
1 x NO	0.032 (0.071)		0.06 (3.66)		1	UCB5R	UCB5P
1 x NC						UCB9R	UCB9P
Accessories							
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	UPMA	

Control Stations and Panels

Unicode™ 2 Components | Key Release Mushroom Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2 Groups A, B, C, D | Class I, Zones 1, Ex e d IIC Gb | Class I, Zones 1, AEx e d IIC Gb | Class II, Division 1, Groups E, F, G | Class II, Zones 21, Ex tb IIIC Db |
 Class II, Zones 21, AEx t IIIC Db | Class III, Division 1 | IP6X
 ATEX/IECEx: Zones 1 and 2 – 21 and 22

Features

- Can be equipped with up to three Unicode 2 Series Contact Blocks (UCB) contact blocks.
- ATEX, IECEx and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.

Standard Materials

- Body: thermosetting plastic
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

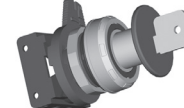
- Certification Type: AUX
 - Rated Ambient Temperature: -55 °C to +70 °C (-67 °F to +158 °F)
 - UL Standards: UL No. 61010-1 (2nd Edition), UL 60079-0 (5th Edition 2009), UL 60079-1 (6th Edition 2009), UL 60079-7 (Ed 4th 2008), UL 60079-31:2009
 - UL Certificate: E184198
 - CAN/CSA Standards: C22.2 No. 0-10, C22.2 No. 61010-1-04, C22.2 No. 213 (2nd Edition), C22.2 No. 60079-0:07, C22.2 No. 60079-1:07, No. 60079-7:03, No. 60079-31:12, E61241-1-1:02, C22.2 No. 60529:05 (R 2010)
 - CSA Certificate: 2661552
 - Other Standards: ANSI/ISA-12.12.01 (2013), ANSI/ISA-61241-0 (12.10.02)-2006 (R2011), ANSI/ISA-61241-1 (12.10.03)-2006 (R2011), ANSI/IEC 60529-2004

ATEX/IECEx Certifications and Compliances

- Certification Type: 05-0003-00
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
- Service Temperature: -55 °C to +70 °C (-67°F to +158 °F)
- ATEX Certificate: CML 13 ATEX 3010U
- IECEx Certificate: IECEx CML 14.0005U
- Index of Protection according EN/IEC 60529: IP66



UC0R
(rail mounted contacts)



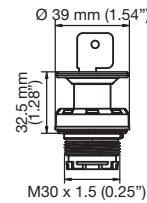
UC0P
(panel mounted contacts)



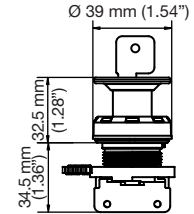
UCB
Contact Block

Dimensions in Millimeters (Inches)

Rail Mounted Contacts



Panel Mounted Contacts



	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted

Key Release Mushroom Head Push Button (contact block to be ordered separately)

For legend plates, guards and blanking plugs see accessories page.

Red	0.085 (0.183)	0.096 (0.212)	0.09 (5.49)	0.25 (15.26)	1	UC0R	UC0P
1-Pole Contact Blocks							
1 x NO						UCB5R	UCB5P
1 x NC	0.032 (0.071)		0.06 (3.66)		1	UCB9R	UCB9P
Spare Parts							
Spare key (type 4A 185)	—		—			SK4A185	SK4A185
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	—	UPMA

Unicode™ 2 Components | Key Momentary Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2 Groups A, B, C, D | Class I, Zones 1, Ex e d IIC Gb | Class I, Zones 1, AEx e d IIC Gb | Class II, Division 1, Groups E, F, G | Class II, Zones 21, Ex tb IIIC Db |
 Class II, Zones 21, AEx t IIIC Db | Class III, Division 1 | IP6X
 ATEX/IECEx: Zones 1 and 2 – 21 and 22

Features

- Can be equipped with up to three Unicode 2 Series Contact Blocks (UCB) contact blocks.
- ATEX, IECEx and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.

Standard Materials

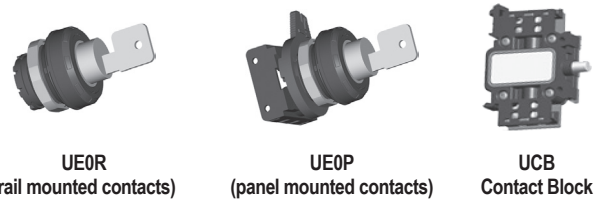
- Body: thermosetting plastic
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

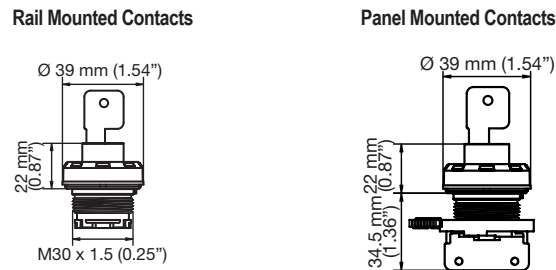
- Certification Type: AUX
 - Rated Ambient Temperature: -55 °C to +70 °C (-67 °F to +158 °F)
 - UL Standards: UL No. 61010-1 (2nd Edition), UL 60079-0 (5th Edition 2009), UL 60079-1 (6th Edition 2009), UL 60079-7 (Ed 4th 2008), UL 60079-31:2009
 - UL Certificate: E184198
 - CAN/CSA Standards: C22.2 No. 0-10, C22.2 No. 61010-1-04, C22.2 No 213 (2nd Edition), C22.2 No. 60079-0:07, C22.2 No. 60079-1:07, No. 60079-7:03, No. 60079-31:12, E61241-1-1:02, C22.2 No. 60529:05 (R 2010)
 - CSA Certificate: 2661552
 - Other Standards: ANSI/ISA-12.12.01 (2013), ANSI/ISA-61241-0 (12.10.02)-2006 (R2011), ANSI/ISA-61241-1 (12.10.03)-2006 (R2011), ANSI/IEC 60529-2004

ATEX/IECEx Certifications and Compliances

- Certification Type: 05-0003-00
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
- Service Temperature: -55 °C to +70 °C (-67 °F to +158 °F)
- ATEX Certificate: CML 13 ATEX 3010U
- IECEx Certificate: IECEx CML 14.0005U
- Index of Protection according EN/IEC 60529: IP66



Dimensions in Millimeters (Inches)



Control Stations and Panels

	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Key Momentary Push Button (contact block to be ordered separately)							
For legend plates, guards and blanking plugs see accessories page.							
Key removable in both positions	0.080 (0.176)	0.093 (0.205)	0.08 (4.88)	0.20 (12.20)	1	UE0R	UE0P
Key removable in ON positions	0.080 (0.176)	0.093 (0.205)	0.08 (4.88)	0.20 (12.20)	1	UF0R	UF0P
Key removable in OFF positions	0.080 (0.176)	0.093 (0.205)	0.08 (4.88)	0.20 (12.20)	1	UG0R	UG0P
1-Pole Contact Blocks							
1 x NO						UCB5R	UCB5P
1 x NC	0.032 (0.071)		0.06 (3.66)		1	UCB9R	UCB9P
Spare Parts							
Spare key (type 4A 185)	—		—			SK4A185	SK4A185
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	—	UPMA

Unicode™ 2 Components | Rotary Actuators

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X/IP66
 ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Features

- Can be equipped with up to three Unicode 2 Series Contact Blocks (UCB) contact blocks.
- Certified ATEX/IECEx.
- Available in TS35 rail mounted or panel mounted.

Standard Materials

- Body: thermosetting plastic
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

- Certification Type: TCe
 - Operating Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEx Certifications and Compliances

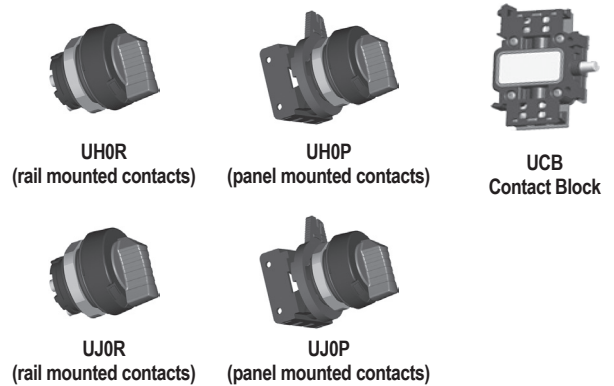
- Certification Type: TCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
- Service Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
- ATEX Certificate: LCIE 09 ATEX 3010U
- IECEx Certificate: IECEx LCI 09.0011U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

UKEX Certifications

- UKEX Certificate: CML 21UKEX3196U

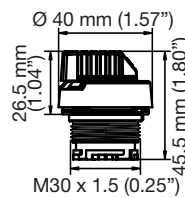
INMETRO Certifications

- INMETRO Certificate: BVC 10.0044-U

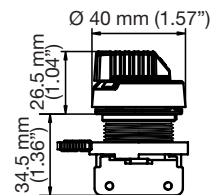


Dimensions in Millimeters (Inches)

Rail Mounted Contacts



Panel Mounted Contacts



① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | Rotary Actuators

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X/IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
2-Position Rotary Actuator (contact block to be ordered separately)							
For legend plates, guards and blanking plugs see accessories page.							
2-Positions Selector Switch (O-I), 2 maintained positions	0.038 (0.084)	0.051 (0.112)	0.09 (5.49)	0.22 (13.43)	1	UH0R	UH0P
3-Position Rotary Actuator (contact block to be ordered separately)							
Legend plates, guards, blanking plugs (see Accessories page).							
3-Position Selector Switch, I and II position maintained (I-O-II)	0.038 (0.084)	0.051 (0.112)	0.09 (5.49)	0.22 (13.43)	1	UJ0R	UJ0P
3-Position Selector Switch, I and II spring return to O (I->O<-II)	0.038 (0.084)	0.051 (0.112)	0.09 (5.49)	0.22 (13.43)	1	UK0R	UK0P
3-Position Selector Switch, I maintained, II spring return to O (I-O<-II)	0.038 (0.084)	0.051 (0.112)	0.09 (5.49)	0.22 (13.43)	1	UM0R	UM0P
3-Position Selector Switch, I spring return to O, II maintained (I->O-II)	0.038 (0.084)	0.051 (0.112)	0.09 (5.49)	0.22 (13.43)	1	UN0R	UN0P
1-Pole Contact Blocks							
1 x NO	0.032 (0.071)		0.06 (3.66)		1	UCB5R	UCB5P
1 x NC	0.032 (0.071)		0.06 (3.66)		1	UCB9R	UCB9P
Spare Parts							
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	—	UPMA

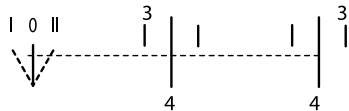
Control Stations and Panels

Wiring Diagrams

UJ0

UJ0	3-4	3-4
I	X	
O		
II		X

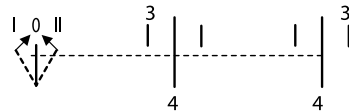
"NO" "NO"



UK0

UK0	3-4	3-4
I	X	
O		
II		X

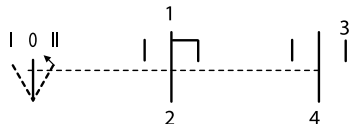
"NO" "NO"



UM0

UM0	1-2	3-4
I		
O	X	
II	X	X

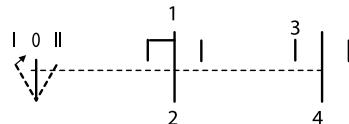
"NC" "NO"



UN0

UN0	1-2	3-4
I	X	X
O	X	
II		

"NC" "NO"



Unicode™ 2 Components | Illuminated Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Features

- Can be equipped with up to two Unicode 2 Series Contact Blocks (UCB) contact blocks.
- ATEX, IECEx and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.
- High intensity single LED light.
- Rated operating voltage (Ue): 12 Vac to 264 Vac, 50/60 Hz and 12 Vdc to 60 Vdc.
- Terminal connection: 2.5 mm² (0.004 in²)

Standard Materials

- Body: polyamide
- Lens: polycarbonate
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

- Certification Type: TCe
 - Operating Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEx Certifications and Compliances

- Certification Type: TCe (Actuator and Lens).
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Service Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - ATEX Certificate: LCIE 09 ATEX 3010U
 - IECEx Certificate: IECEx LCI 09.0011U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Certification Type: UCVe (Contact Block and Pilot Light)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Service Temperature: -55 °C to +90 °C (-67 °F to +194 °F)
 - ATEX Certificate: INERIS 20 ATEX 9002U
 - IECEx Certificate: IECEx INE 20.0013U

UKEX Certifications

- Certification Type: TCe (Actuator and Lens)
 - UKEX Certificate: : CML21UKEX3196U
- Certification Type: UCVe (Contact Block and Pilot Light)
 - UKEX Certificate: CML21UKEX1149U

INMETRO Certifications

- Certification Type: TCe (Actuator and Lens)
 - INMETRO Certificate: BVC 10.0044-U
- Certification Type: UCVe (Contact Block and Pilot Light)
 - INMETRO Certificate: BVC 20.3855-U



ULG0R
(rail mounted contacts)



ULG0P
(panel mounted contacts)



UCB
Contact Block



UIL08

① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | Illuminated Push Buttons

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Spring Return Illuminated Push Button (contact block to be ordered separately) For legend plates, guards and blanking plugs see accessories page.							
Green	0.062 (0.137)	0.075 (0.165)	0.26 (15.87)	0.28 (17.09)	1	ULG0R	ULG0P
Red	0.062 (0.137)	0.075 (0.165)	0.26 (15.87)	0.28 (17.09)	1	ULR0R	ULR0P
White	0.062 (0.137)	0.075 (0.165)	0.26 (15.87)	0.28 (17.09)	1	ULW0R	ULW0P
Blue	0.062 (0.137)	0.075 (0.165)	0.26 (15.87)	0.28 (17.09)	1	ULB0R	ULB0P
Yellow	0.062 (0.137)	0.075 (0.165)	0.26 (15.87)	0.28 (17.09)	1	ULY0R	ULY0P

1-Pole Contact Blocks

1 x NO	0.032 (0.071)	0.06 (3.66)	1	UCB5R	UCB5P
1 x NC	0.032 (0.071)	0.06 (3.66)	1	UCB9R	UCB9P

Spare Parts

Rail to panel mounted conversion adaptor	0.02 (0.04)	0.08 (4.88)	1	—	UPMA
--	-------------	-------------	---	---	------

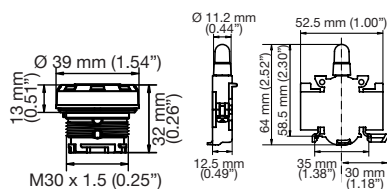
Marking	Color	Weight kg (lb)	Volume dm ³ (in ³)	Pack	Catalog Number
---------	-------	----------------	---	------	----------------

Set of Five Spare Inserts

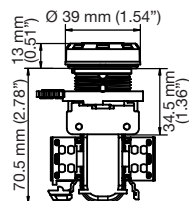
(unmarked)	Green	0.01 (0.02)	0.01 (0.61)	1	UIAG
(unmarked)	Red	0.01 (0.02)	0.01 (0.61)	1	UIAR
(unmarked)	Yellow	0.01 (0.02)	0.01 (0.61)	1	UIAY
(unmarked)	White	0.01 (0.02)	0.01 (0.61)	1	UIAW
(unmarked)	Blue	0.01 (0.02)	0.01 (0.61)	1	UIAB
(unmarked)	Black	0.01 (0.02)	0.01 (0.61)	1	UIAN
ON	Green	0.01 (0.02)	0.01 (0.61)	1	UIA01
OFF	Red	0.01 (0.02)	0.01 (0.61)	1	UIA02
START	Green	0.01 (0.02)	0.01 (0.61)	1	UIA03
STOP	Red	0.01 (0.02)	0.01 (0.61)	1	UIA04
MARCHE	Green	0.01 (0.02)	0.01 (0.61)	1	UIA05
ARRET	Red	0.01 (0.02)	0.01 (0.61)	1	UIA06
I	Green	0.01 (0.02)	0.01 (0.61)	1	UIA07
O	Red	0.01 (0.02)	0.01 (0.61)	1	UIA08

Dimensions in Millimeters (Inches)

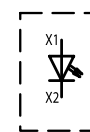
Rail Mounted Contacts



Panel Mounted Contacts



Wiring Diagram



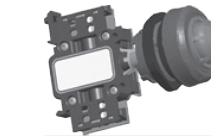
Unicode™ 2 Components | Pilot Lights

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Features

- ATEX, IECEx and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.
- High intensity single LED light.
- Rated operating voltage (Ue): 12 Vac to 264 Vac, 50/60 Hz and 12 Vdc to 60 Vdc.
- Terminal connection: 2.5 mm² (0.004 in²)



UPG0R (rail mounted contacts)



UPG0P (panel mounted contacts)

Standard Materials

- Body: polyamide
- Lens: polycarbonate
- Seal: Ethylene-propylene-diene-monomer (M-class) rubber (EPDM)

NEC/CEC Certifications and Compliances

- Actuator and Lens: Certification Type: TCe
 - Operating Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEx Certifications and Compliances

- Certification Type: TCe (Actuator and Lens)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Service Temperature: -40 °C to +60 °C (-40 °F to +140 °F)
 - ATEX Certificate: LCIE 09 ATEX 3010U
 - IECEx Certificate: IECEx LCI 09.0011U
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Certification Type: UCVe (Contact Block and Pilot Light)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Service Temperature: -55 °C to +90 °C (-67 °F to +194 °F)
 - ATEX Certificate: INERIS 20 ATEX 9002U
 - IECEx Certificate: IECEx INE 20.0013U

UKEX Certifications

- Certification Type: TCe (Actuator and Lens)
 - UKEX Certificate : CML 21UKEX3196U
- Certification Type: UCVe (Contact Block and Pilot Light)
 - UKEX Certificate : CML 21UKEX1149U

INMETRO Certifications

- Certification Type: TCe (Actuator and Lens)
 - INMETRO Certificate: BVC 10.0044-U
- Certification Type: UCVe (Contact Block and Pilot Light)
 - INMETRO Certificate: BVC20.3855-U

① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | Pilot Lights

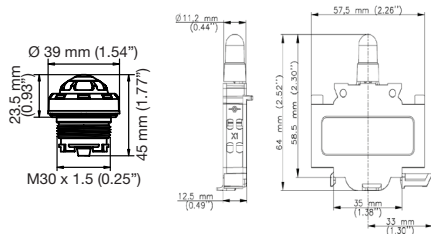
Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

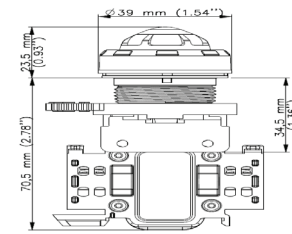
	Weight kg (lb)		Volume dm ³ (in ³)		Pack	Catalog Number	
	Rail Mounted	Panel Mounted	Rail Mounted	Panel Mounted		Rail Mounted	Panel Mounted
Pilot Light: 12 Vac to 254, Vac 50/60 Hz, 12 Vdc to 60 Vdc. For legend plates, guards and blanking plugs see accessories page.							
Green	0.056 (0.123)	0.069 (0.152)	0.29 (17.70)	0.31 (18.92)	1	UPG0R	UPG0P
Red	0.056 (0.123)	0.069 (0.152)	0.29 (17.70)	0.31 (18.92)	1	UPR0R	UPR0P
White	0.056 (0.123)	0.069 (0.152)	0.29 (17.70)	0.31 (18.92)	1	UPW0R	UPW0P
Blue	0.056 (0.123)	0.069 (0.152)	0.29 (17.70)	0.31 (18.92)	1	UPB0R	UPB0P
Yellow	0.056 (0.123)	0.069 (0.152)	0.29 (17.70)	0.31 (18.92)	1	UPY0R	UPY0P
Spare Parts							
Rail to panel mounted conversion adaptor	0.02 (0.04)		0.08 (4.88)		1	—	UPMA
Spare Lenses							
Green	0.03 (0.06)		0.06 (3.66)		1	UPGL	UPGL
Red	0.03 (0.06)		0.06 (3.66)		1	UPRL	UPRL
White	0.03 (0.06)		0.06 (3.66)		1	UPWL	UPWL
Blue	0.03 (0.06)		0.06 (3.66)		1	UPBL	UPBL
Yellow	0.03 (0.06)		0.06 (3.66)		1	UPYL	UPYL

Dimensions in Millimeters (Inches)

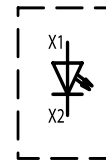
Rail Mounted Contacts



Panel Mounted Contacts



Wiring Diagram



Unicode™ 2 Components | 1-Pole Contact Block

Components for Increased Safety Enclosures

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class I, Zones 1, AEx de IIC | Class I, Zone1, AEx e IIC | Class II, Division 2, Groups F, G | Class III | Type 4X | IP66
 ATEX/IECEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Features

- ATEX, IECEX and cCSAus Certified.
- Available in TS35 rail mounted or panel mounted.
- High performance contact block suitable for low intensity
- Rated operating voltage (Ue): 500 Vac — 110 Vdc.
- Switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Terminal connection: 2.5 mm² (0.004 in²)

Standard Materials

- Body: polyamide
- Contact: silver alloy

NEC/CEC Certifications and Compliances

- Certification Type: CVe
 - Operating Temperature: -40 °C to +75 °C (-40 °F to +167 °F)
 - Ingress Protection (solid and liquid): IP66 and Type 4X ①
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
 - UL Standards: UL 508, UL 50E, UL 60079-0, UL 60079-1, UL 60079-7
 - Other Standards: ANSI/ISA 12.12.01-2011, ANSI/ISA 61241-0 (12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
 - CSA Listed: 025875

ATEX/IECEX Certifications and Compliances

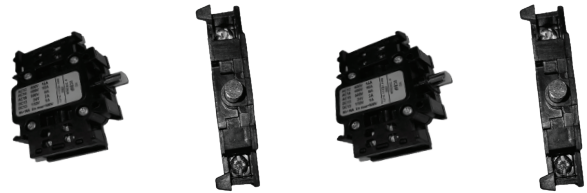
- Certification Type: UCVe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Service Temperature: -55 °C to +110 °C (-67 °F to +230 °F)
 - ATEX Certificate: INERIS 20 ATEX 9002U
 - IECEX Certificate: IECEX INE 20.0013U

UKEX Certifications

- UKEX Certificate : CML 21UKEX1149U

INMETRO Certifications

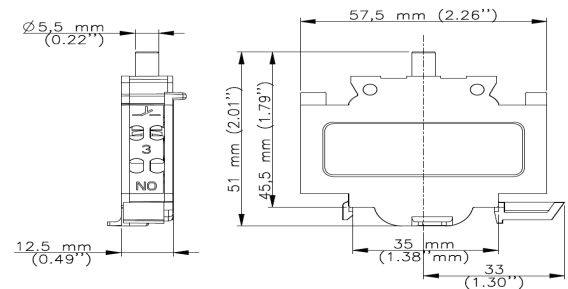
- INMETRO Certificate : BVC20.3855-U



UCB5R
Rail Mounted Contacts
Top Access

UCB5P
Panel Mounted Contacts
Bottom Access

Dimensions and millimeters (inches)



Wiring diagram



	Weight kg (lb)	Volume dm ³ (in ³)	Pack	Catalog number	
				Rail mounted	Panel mounted
1 Pole Contact Blocks					
1 x "NO"	0.032 (0.071)	0.06 (3.66)	1	UCB5R	UCB5P
1 x "NC"	0.032 (0.071)	0.06 (3.66)	1	UCB9R	UCB9P

① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Features

- 2, 3, 4, 6 or 8-pole switches:
 - Available in TS35 rail mounted or panel mounted.
 - Padlockable
 - Can be equipped with switch and changeover switch contact blocks
- Switching capacity:
 - AC 1, 16 Amp, 690 Vac
 - AC 3, 8 Amp, 500 Vac
 - AC 3, 4 Amp, 690 Vac
 - AC 15, 16 Amp, 415 Vac
 - DC 1, 10 Amp, 24 Vdc
 - DC 1, 6 Amp, 60 Vdc
 - DC 1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC 1: 6 Amp/220 Vdc (3 contacts in series)
- Terminal connection: 1.5 mm² - 2.5 mm² (0.002 in² - 0.004 in²) (stranded), 1.5 mm² - 4 mm² (0.002 in² - 0.006 in²) (solid)

Standard Materials

- Body: polyamide
- Contact: silver

ATEX/IECEx Certifications and Compliances ①

- Certification Type: USW16 (Switches)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Service Temperature: -55 °C to +90 °C (-67°F to +194 °F)
 - ATEX Certificate: Ex Veritas 21 ATEX 0754U
 - IECEx Certificate: IECEx EXV 21.0003U
- Certification Type: AUXe (Handles)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Ambient Temperature:
 - -40 °C to +55 °C (-40°F to +131 °F)
 - ATEX Certificate: LCIE 03 ATEX 0012U
 - IECEx Certificate: IECEx LCIE 16.0050U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

UKEX Certifications

- Certified type: USW16
 - UKEX Certificate : ExVeritas 22UKEX1165U
- Certified type : AUXe (handles)
 - UKEX Certificate: CML 21UKEX3184U

INMETRO Certifications

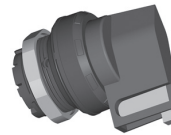
- Certified type: USW16
 - INMETRO Certificate: BVC22.4133-U
- Certified type : AUXe (handles)
 - INMETRO Certificate: BVC17.5702-U



US30R
(rail mounted switch)



US30P
(panel mounted switch)



USH
(switch handle)

① These products are certified only when used as components in factory assembled panels.

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

	Diagram Number	Wiring Diagram	Catalog Number Rail	Panel
Two Pole Selector Switches (handle to be ordered separately)				
2 position 2-pole selector switch	002		US16220002R <i>(former US32R)</i>	US16220002P <i>(former US32P)</i>
2 position 2-pole selector switch	016		US16220016R <i>(former US30R)</i>	US16220016P <i>(former US30P)</i>
3 position 2-pole selector switch	027		US16230027R <i>(former US31R)</i>	US16230027P <i>(former US31P)</i>
3 position 2-pole selector switch with spring return from 135° to 90°	038		US16230038R <i>(former US33R)</i>	US16230038P <i>(former US33P)</i>
3 position 2-pole selector switch with spring return from 45° to 90°	048		US16230048R <i>(former US34R)</i>	US16230048P <i>(former US34P)</i>
Three or Four Pole Selector Switches (handle to be ordered separately)				
2 position 4-pole selector switch	102		US16420102R <i>(former US35R)</i>	US16420102P <i>(former US35P)</i>
3 position 4-pole selector switch	119		US16430119R <i>(former US36R)</i>	US16430119P <i>(former US36P)</i>
2 position 4-pole selector switch	106		US16420106R <i>(former US37R)</i>	US16420106P <i>(former US37P)</i>
3 position 3-pole — Late break, early make selector switch with spring return from 45° to 90°	138		US16330138R <i>(former US38R)</i>	US16330138P <i>(former US38P)</i>
Padlockable lever handle for all selector switches			USH	

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
1-pole 2 positions			
	US16120056_		US16120061_
2-pole 2 positions			
	US16220002_		US16220015_
	US16220003_		US16220016_
	US16220004_		US16220017_
	US16220005_		US16220018_
	US16220007_		US16220019_
	US16220008_		US16220020_
	US16220009_		US16220021_
	US16220010_		US16220043_
	US16220011_		US16220045_
	US16220012_		US16220053_
	US16220013_		US16220073_
	US16220014_		US16220074_
2-pole 3 positions			
	US16230022_		US16230025_
	US16230023_		US16230026_
	US16230024_		US16230027_

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
2-pole 3 positions			
	US16230028_		US16230050_
	US16230029_		US16230051_
	US16230030_		US16230052_
	US16230031_		US16230054_
	US16230032_		US16230055_
	US16230038_		US16230059_
	US16230039_		US16230068_
	US16230040_		US16230070_
	US16230041_		US16230071_
	US16230042_		US16230072_
	US16230046_		US16230075_
	US16230047_		US16230076_
	US16230048_		US16230087_
	US16230049_		US16239002_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
2-pole 4 positions			
	US16240044_		US16240062_
	US16240057_		US16240065_
	US16240058_		US16240084_
2-pole 8 positions			
	US16280036_	—	—
3-pole 2 positions			
	US16320122_		US16321153_
3-pole 3 positions			
	US16330136_		US16331112_
	US16330138_		US16331120_
	US16330144_		US16331142_
	US16330145_		US16331155_
	US16330161_		US16331171_
	US16330167_		US16331202_
	US16330199_		US16331209_
	US16331109_		US16331210_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
3-pole 3 positions			
	US16331230_	—	—
3-pole 4 positions			
	US16340146_		US16340183_
	US16340168_		US16341119_
	US16340178_		US16341145_
	US16340181_		US16341151_
4-pole 2 positions			
	US16420102_		US16420137_
	US16420103_		US16420152_
	US16420104_		US16420154_
	US16420105_		US16420173_
	US16420106_		US16421105_
	US16420107_		US16421122_
	US16420116_		US16421147_
	US16420134_		US16421162_
	US16420135_		US16421234_
4-pole 3 positions			
	US16430111_		US16430113_
	US16430112_		US16430114_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
	US16430118_		US16430169_
	US16430119_		US16430170_
	US16430120_		US16430175_
	US16430121_		US16430176_
	US16430127_		US16430180_
	US16430129_		US16431103_
	US16430131_		US16431104_
	US16430132_		US16431106_
	US16430133_		US16431108_
	US16430139_		US16431111_
	US16430140_		US16431113_
	US16430153_		US16431116_
	US16430157_		US16431125_
	US16430158_		US16431129_
	US16430159_		US16431134_
	US16430160_		US16431138_
	US16430162_		US16431159_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 3 positions			
	US16431165_		US16431206_
	US16431166_		US16431208_
	US16431167_		US16431213_
	US16431172_		US16431215_
	US16431173_		US16431217_
	US16431174_		US16431220_
	US16431176_		US16431222_
	US16431178_		US16431225_
	US16431179_		US16431226_
	US16431201_		US16431232_
	US16431203_		US16439001_
4-pole 4 positions			
	US16440110_		US16440147_
	US16440123_		US16440148_
	US16440130_		US16440150_
	US16440143_		US16440151_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
	US16440155_		US16441128_
	US16440156_		US16441132_
	US16440164_		US16441133_
	US16440171_		US16441136_
	US16440198_		US16441139_
	US16440608_		US16441143_
	US16440611_		US16441144_
	US16440614_		US16441146_
	US16441102_		US16441154_
	US16441114_		US16441156_
	US16441115_		US16441163_
	US16441124_		US16441164_
	US16441127_		US16441168_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Standalone Switches — Add P for Panel Mounted or R for Rail Mounted; example: US1622-0002R

Wiring Diagram	Catalog Number	Wiring Diagram	Catalog Number
4-pole 4 positions			
	US16441169_		US16441211_
	US16441180_		US16441212_
	US16441204_		US16441219_
	US16441205_		US16441224_
	US16441207_		US16441229_
4-pole 5 positions			
	US16451110_		US16451235_

Control Stations and Panels

Unicode™ 2 Components | 16 Amp Switches

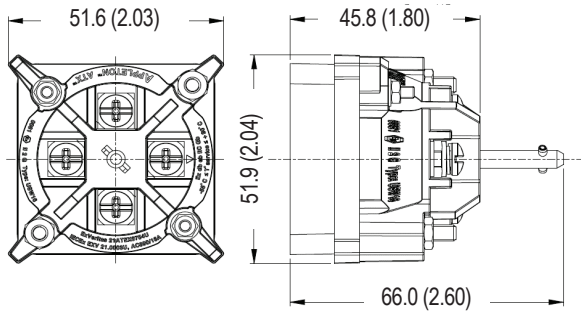
Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

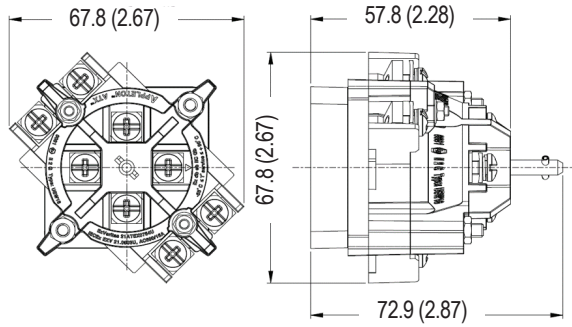
Dimensions in Millimeters (Inches)

16 Amp Switches

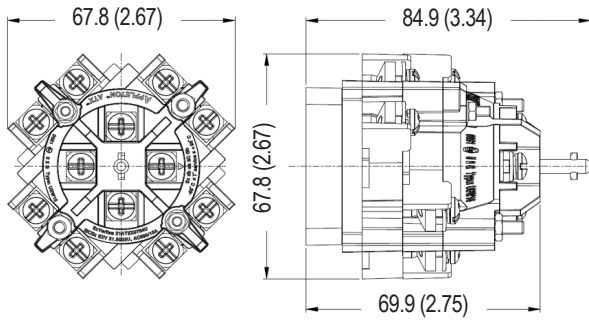
2-pole



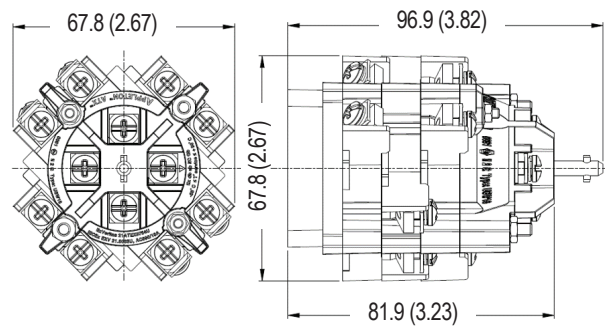
3- and 4-pole



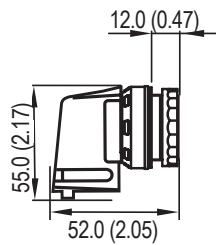
6-pole



8-pole



USH Handle



Unicode™ 2 Components | Accessories

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

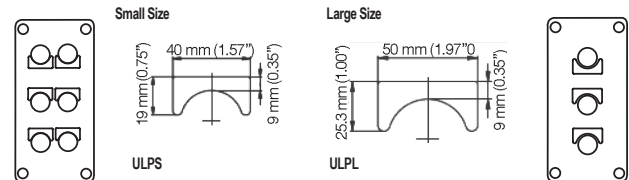
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).


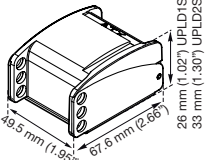







Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O - I	ULPSH01	ULPLH01
ON - OFF	ULPSH02	ULPLH02
START - STOP	ULPSH03	ULPLH03
STOP - START	ULPSH04	ULPLH04
HAND - AUTO	ULPSH05	ULPLH05
MANU - AUTO	ULPSH06	ULPLH06
FORWARD - REVERSE	ULPSH07	ULPLH07
REMOTE - LOCAL	ULPSH08	ULPLH08
MARCHE - ARRET	ULPSH09	ULPLH09
I - O - II	ULPSJ01	ULPLJ01
OFF - O - ON	ULPSJ02	ULPLJ02
START - NORMAL - STOP	ULPSJ03	ULPLJ03
HAND - OFF - AUTO	ULPSJ04	ULPLJ04
MANU - O - AUTO	ULPSJ05	ULPLJ05
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09

Unicode™ 2 Components | Accessories

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2 – 21 and 22

	Description	Catalog Number
	<p>Yellow Guard</p> <p>Mushroom head protection for emergency stop</p>	<p>098657</p>
	<p>Padlockable Guard</p> <p>Stainless steel and plastic cover, capacity: 3 padlocks, 6 mm (0.24") maximum diameter (not supplied)</p> <p>For push button and rotary actuator  </p> <p>For mushroom head actuator </p>	<p>UPLD1S</p> <p>UPLD2S</p>
	<p>Cover Blanking Plug</p> <p>For cover drilling — 30.5 mm (1.2") diameter</p>	<p>UBP</p>
	<p>Device Adaptor</p> <p>Rail to panel mounted conversion adaptor</p>	<p>UPMA</p>

Unicode™ 2 Series Accessoires: Ammeters

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2
Notable: UKEX, INMETRO Certified

Applications

- Suitable for use with certified Ex e enclosures for control equipment in industrial processes.

Features

- Panel mounted version with metal support 48x48mm
- DIN rail mounted (TS35) and panel mounted version 72x72mm

Technical Data

- Rated Voltage: 300 V for 48x48mm and 72x72 mm
- Frequency: 45 to 65 at 400 Hz
- Consumption: 0.4 VA for 1A and 0.6VA for 5A
- Permanent overload: 1.2 In to 1.6
- Instantaneous overload: 10 In/5s
- Terminal connections: M4 for size 48x48; M5 for size 72x72
- Direct connections: up to 2,5mm²
- Connections by lugs : up to 4mm²

ATEX/IECEx Certifications and Compliances

- Certification Type: U2AE
- Gas: Zone 1 and 2
- Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
- Type of Protection: Ex eb IIC Gb
- Service Temperature: -25°C to +80°C (-13°F to + 176°F)
- ATEX Certificate: LCIE 13 ATEX 3074U
- IECEx Certificate: IECEx LCIE 13.0059U



AC Ammeter

Certification UKEX

— UKEX Certificate: CML 21UKEX3198U

Certification INMETRO

— INMETRO Certificate: BVC22.4128-U

AC Ammeter — 48 mm x 48 mm (1.89" x 1.89")

Connection on current transformer — Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Rail Mounted			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F2JR
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F3JR
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F5JR
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F6JR
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F2JR
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F3JR
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F5JR
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F6JR
Panel Mounted			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F2JP
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F3JP
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F5JP
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C1F6JP
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F2JP
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F3JP
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F5JP
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.1 (0.22)	0.3 (18.3)	U2AE48C5F6JP
Window for Ammeter 48 mm x 48 mm (1.89" x 1.89")	0.1 (0.22)	0.4 (24.4)	CA48W

Unicode™ 2 Series Accessoires: Ammeters

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2
 Notable: UKEX, INMETRO Certified

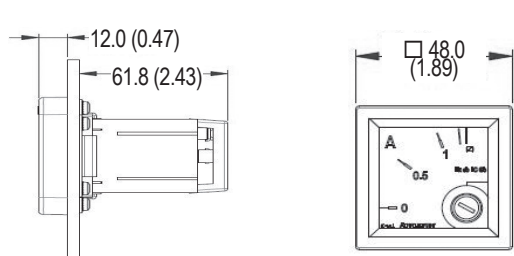
AC Ammeter — 72 mm x 72 mm (2.83" x 2.83")

Connection on current transformer — Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

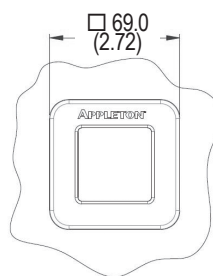
Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Rail Mounted			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F2JR
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F3JR
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F5JR
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F6JR
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F2JR
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F3JR
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F5JR
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F6JR
Panel Mounted			
1A C.T. 2 x F.L.C. with 0-1-2 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F2JP
1A C.T. 3 x F.L.C. with 0-1-3 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F3JP
1A C.T. 5 x F.L.C. with 0-1-5 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F5JP
1A C.T. 6 x F.L.C. with 0-1-6 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C1F6JP
5A C.T. 2 x F.L.C. with 0-5-10 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F2JP
5A C.T. 3 x F.L.C. with 0-5-15 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F3JP
5A C.T. 5 x F.L.C. with 0-5-25 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F5JP
5A C.T. 6 x F.L.C. with 0-5-30 Scale	0.2 (0.44)	0.6 (36.6)	U2AE72C5F6JP
Window for Ammeter 72 mm x 72 mm (2.83" x 2.83")	0.2 (0.44)	0.6 (36.6)	CA72W

Dimensions in Millimeters (Inches)

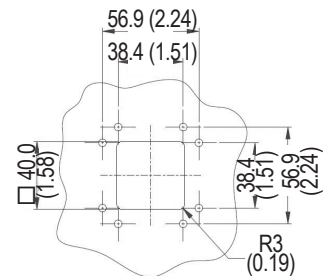
ATEX/IECEx Ammeter 48 mm x 48 mm (1.89" x 1.89")



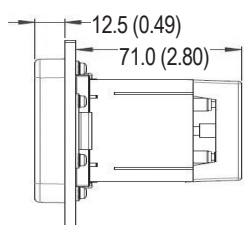
Window for Ammeter



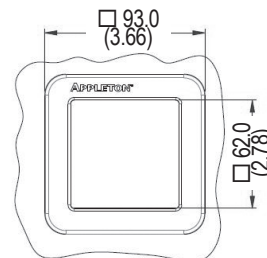
Drilling Information



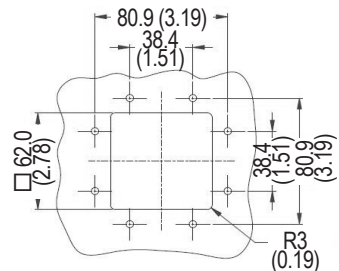
AC Ammeter — 72 mm x 72 mm (2.83" x 2.83")



Window for Ammeter



Drilling Information



Unicode™ 2 Series Accessoires: Ammeters

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2
Notable: UKEX, INMETRO Certified

Interchangeable Dials for Ammeters ATEX/IECEx Ammeter 48 mm x 48 mm (1.89" x 1.89") ①

Scale	Catalog Number	Scale	Catalog Number	Scale	Catalog Number
Current Transformer 1 A, 2 x In		Current transformer 1 A, 6 x In		Current transformer 5 A, 5 x In	
0 - 5 - 10 A	18442Q51-101	0 - 5 - 30 A	18442Q54-101	0 - 5 - 25 A	18442Q53-501
0 - 10 - 20 A	18442Q51-102	0 - 10 - 60 A	18442Q54-102	0 - 10 - 50 A	18442Q53-502
0 - 15 - 30 A	18442Q51-103	0 - 15 - 90 A	18442Q54-103	0 - 15 - 75 A	18442Q53-503
0 - 20 - 40 A	18442Q51-104	0 - 20 - 120 A	18442Q54-104	0 - 20 - 100 A	18442Q53-504
0 - 25 - 50 A	18442Q51-105	0 - 25 - 150 A	18442Q54-105	0 - 25 - 125 A	18442Q53-505
0 - 30 - 60 A	18442Q51-106	0 - 30 - 180 A	18442Q54-106	0 - 30 - 150 A	18442Q53-506
0 - 40 - 80 A	18442Q51-107	0 - 40 - 240 A	18442Q54-107	0 - 40 - 200 A	18442Q53-507
0 - 50 - 100 A	18442Q51-108	0 - 50 - 300 A	18442Q54-108	0 - 50 - 250 A	18442Q53-508
0 - 60 - 120 A	18442Q51-109	0 - 60 - 360 A	18442Q54-109	0 - 60 - 300 A	18442Q53-509
0 - 75 - 150 A	18442Q51-110	0 - 75 - 450 A	18442Q54-110	0 - 75 - 375 A	18442Q53-510
0 - 100 - 200 A	18442Q51-111	0 - 100 - 600 A	18442Q54-111	0 - 100 - 500 A	18442Q53-511
0 - 125 - 250 A	18442Q51-112	0 - 125 - 750 A	18442Q54-112	0 - 125 - 625 A	18442Q53-512
0 - 150 - 300 A	18442Q51-113	0 - 150 - 900 A	18442Q54-113	0 - 150 - 750 A	18442Q53-513
0 - 200 - 400 A	18442Q51-114	0 - 200 - 1200 A	18442Q54-114	0 - 200 - 1000 A	18442Q53-514
0 - 250 - 500 A	18442Q51-115	0 - 250 - 1500 A	18442Q54-115	0 - 250 - 1250 A	18442Q53-515
Current Transformer 1 A, 3 x In		Current transformer 5 A, 2 x In		Current transformer 5 A, 6 x In	
0 - 5 - 15 A	18442Q52-101	0 - 5 - 10 A	18442Q52-501	0 - 5 - 30 A	18442Q54-501
0 - 10 - 30 A	18442Q52-102	0 - 10 - 20 A	18442Q52-502	0 - 10 - 60 A	18442Q54-502
0 - 15 - 45 A	18442Q52-103	0 - 15 - 30 A	18442Q52-503	0 - 15 - 90 A	18442Q54-503
0 - 20 - 60 A	18442Q52-104	0 - 20 - 40 A	18442Q52-504	0 - 20 - 120 A	18442Q54-504
0 - 25 - 75 A	18442Q52-105	0 - 25 - 50 A	18442Q52-505	0 - 25 - 150 A	18442Q54-505
0 - 30 - 90 A	18442Q52-106	0 - 30 - 60 A	18442Q52-506	0 - 30 - 180 A	18442Q54-506
0 - 40 - 120 A	18442Q52-107	0 - 40 - 80 A	18442Q52-507	0 - 40 - 240 A	18442Q54-507
0 - 50 - 150 A	18442Q52-108	0 - 50 - 100 A	18442Q52-508	0 - 50 - 300 A	18442Q54-508
0 - 60 - 180 A	18442Q52-109	0 - 60 - 120 A	18442Q52-509	0 - 60 - 360 A	18442Q54-509
0 - 75 - 225 A	18442Q52-110	0 - 75 - 150 A	18442Q52-510	0 - 75 - 450 A	18442Q54-510
0 - 100 - 300 A	18442Q52-111	0 - 100 - 200 A	18442Q52-511	0 - 100 - 600 A	18442Q54-511
0 - 125 - 375 A	18442Q52-112	0 - 125 - 250 A	18442Q52-512	0 - 125 - 750 A	18442Q54-512
0 - 150 - 450 A	18442Q52-113	0 - 150 - 300 A	18442Q52-513	0 - 150 - 900 A	18442Q54-513
0 - 200 - 600 A	18442Q52-114	0 - 200 - 400 A	18442Q52-514	0 - 200 - 1200 A	18442Q54-514
0 - 250 - 750 A	18442Q52-115	0 - 250 - 500 A	18442Q52-515	0 - 250 - 1500 A	18442Q54-515
Current transformer 1 A, 5 x In		Current transformer 5 A, 3 x In			
0 - 5 - 25 A	18442Q53-101	0 - 5 - 15 A	18442Q52-501		
0 - 10 - 50 A	18442Q53-102	0 - 10 - 30 A	18442Q52-502		
0 - 15 - 75 A	18442Q53-103	0 - 15 - 45 A	18442Q52-503		
0 - 20 - 100 A	18442Q53-104	0 - 20 - 60 A	18442Q52-504		
0 - 25 - 125 A	18442Q53-105	0 - 25 - 75 A	18442Q52-505		
0 - 30 - 150 A	18442Q53-106	0 - 30 - 90 A	18442Q52-506		
0 - 40 - 200 A	18442Q53-107	0 - 40 - 120 A	18442Q52-507		
0 - 50 - 250 A	18442Q53-108	0 - 50 - 150 A	18442Q52-508		
0 - 60 - 300 A	18442Q53-109	0 - 60 - 180 A	18442Q52-509		
0 - 75 - 375 A	18442Q53-109	0 - 75 - 225 A	18442Q52-510		
0 - 100 - 500 A	18442Q53-111	0 - 100 - 300 A	18442Q52-511		
0 - 125 - 625 A	18442Q53-112	0 - 125 - 375 A	18442Q52-512		
0 - 150 - 750 A	18442Q53-113	0 - 150 - 450 A	18442Q52-513		
0 - 200 - 1000 A	18442Q53-114	0 - 200 - 600 A	18442Q52-514		
0 - 250 - 1250 A	18442Q53-115	0 - 250 - 750 A	18442Q52-515		

① The list of dials is not exhaustive. Please consult quotation department for more options.

Unicode™ 2 Series Accessoires: Ammeters

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2
 Notable: UKEX, INMETRO Certified

Interchangeable Dials for Ammeters ATEX/IECEx Ammeter 72 mm x 72 mm (2.83 in x 2.83 in) ①

Scale	Catalog Number	Scale	Catalog Number	Scale	Catalog Number
Current Transformer 1 A, 2 x In		Current transformer 1 A, 6 x In		Current transformer 5 A, 5 x In	
0 - 5 - 10 A	18442P21-101	0 - 5 - 30 A	18442P24-101	0 - 5 - 25 A	18442P23-501
0 - 10 - 20 A	18442P21-102	0 - 10 - 60 A	18442P24-102	0 - 10 - 50 A	18442P23-502
0 - 15 - 30 A	18442P21-103	0 - 15 - 90 A	18442P24-103	0 - 15 - 75 A	18442P23-503
0 - 20 - 40 A	18442P21-104	0 - 20 - 120 A	18442P24-104	0 - 20 - 100 A	18442P23-504
0 - 25 - 50 A	18442P21-105	0 - 25 - 150 A	18442P24-105	0 - 25 - 125 A	18442P23-505
0 - 30 - 60 A	18442P21-106	0 - 30 - 180 A	18442P24-106	0 - 30 - 150 A	18442P23-506
0 - 40 - 80 A	18442P21-107	0 - 40 - 240 A	18442P24-107	0 - 40 - 200 A	18442P23-507
0 - 50 - 100 A	18442P21-108	0 - 50 - 300 A	18442P24-108	0 - 50 - 250 A	18442P23-508
0 - 60 - 120 A	18442P21-109	0 - 60 - 360 A	18442P24-109	0 - 60 - 300 A	18442P23-509
0 - 75 - 150 A	18442P21-110	0 - 75 - 450 A	18442P24-110	0 - 75 - 375 A	18442P23-510
0 - 100 - 200 A	18442P21-111	0 - 100 - 600 A	18442P24-111	0 - 100 - 500 A	18442P23-511
0 - 125 - 250 A	18442P21-112	0 - 125 - 750 A	18442P24-112	0 - 125 - 625 A	18442P23-512
0 - 150 - 300 A	18442P21-113	0 - 150 - 900 A	18442P24-113	0 - 150 - 750 A	18442P23-513
0 - 200 - 400 A	18442P21-114	0 - 200 - 1200 A	18442P24-114	0 - 200 - 1000 A	18442P23-514
0 - 250 - 500 A	18442P21-115	0 - 250 - 1500 A	18442P24-115	0 - 250 - 1250 A	18442P23-515
Current Transformer 1 A, 3 x In		Current transformer 5 A, 2 x In		Current transformer 5 A, 6 x In	
0 - 5 - 15 A	18442P22-101	0 - 5 - 10 A	18442P21-501	0 - 5 - 30 A	18442P24-501
0 - 10 - 30 A	18442P22-102	0 - 10 - 20 A	18442P21-502	0 - 10 - 60 A	18442P24-502
0 - 15 - 45 A	18442P22-103	0 - 15 - 30 A	18442P21-503	0 - 15 - 90 A	18442P24-503
0 - 20 - 60 A	18442P22-104	0 - 20 - 40 A	18442P21-504	0 - 20 - 120 A	18442P24-504
0 - 25 - 75 A	18442P22-105	0 - 25 - 50 A	18442P21-505	0 - 25 - 150 A	18442P24-505
0 - 30 - 90 A	18442P22-106	0 - 30 - 60 A	18442P21-506	0 - 30 - 180 A	18442P24-506
0 - 40 - 120 A	18442P22-107	0 - 40 - 80 A	18442P21-507	0 - 40 - 240 A	18442P24-507
0 - 50 - 150 A	18442P22-108	0 - 50 - 100 A	18442P21-508	0 - 50 - 300 A	18442P24-508
0 - 60 - 180 A	18442P22-109	0 - 60 - 120 A	18442P21-509	0 - 60 - 360 A	18442P24-509
0 - 75 - 225 A	18442P22-110	0 - 75 - 150 A	18442P21-510	0 - 75 - 450 A	18442P24-510
0 - 100 - 300 A	18442P22-111	0 - 100 - 200 A	18442P21-511	0 - 100 - 600 A	18442P24-511
0 - 125 - 375 A	18442P22-112	0 - 125 - 250 A	18442P21-512	0 - 125 - 750 A	18442P24-512
0 - 150 - 450 A	18442P22-113	0 - 150 - 300 A	18442P21-513	0 - 150 - 900 A	18442P24-513
0 - 200 - 600 A	18442P22-114	0 - 200 - 400 A	18442P21-514	0 - 200 - 1200 A	18442P24-514
0 - 250 - 750 A	18442P22-115	0 - 250 - 500 A	18442P21-515	0 - 250 - 1500 A	18442P24-515
Current transformer 1 A, 5 x In		Current transformer 5 A, 3 x In			
0 - 5 - 25 A	18442P23-101	0 - 5 - 15 A	18442P22-501		
0 - 10 - 50 A	18442P23-102	0 - 10 - 30 A	18442P22-502		
0 - 15 - 75 A	18442P23-103	0 - 15 - 45 A	18442P22-503		
0 - 20 - 100 A	18442P23-104	0 - 20 - 60 A	18442P22-504		
0 - 25 - 125 A	18442P23-105	0 - 25 - 75 A	18442P22-505		
0 - 30 - 150 A	18442P23-106	0 - 30 - 90 A	18442P22-506		
0 - 40 - 200 A	18442P23-107	0 - 40 - 120 A	18442P22-507		
0 - 50 - 250 A	18442P23-108	0 - 50 - 150 A	18442P22-508		
0 - 60 - 300 A	18442P23-109	0 - 60 - 180 A	18442P22-509		
0 - 75 - 375 A	18442P23-110	0 - 75 - 225 A	18442P22-510		
0 - 100 - 500 A	18442P23-111	0 - 100 - 300 A	18442P22-511		
0 - 125 - 625 A	18442P23-112	0 - 125 - 375 A	18442P22-512		
0 - 150 - 750 A	18442P23-113	0 - 150 - 450 A	18442P22-513		
0 - 200 - 1000 A	18442P23-114	0 - 200 - 600 A	18442P22-514		
0 - 250 - 1250 A	18442P23-115	0 - 250 - 750 A	18442P22-515		

① The list of dials is not exhaustive. Please consult quotation department for more options.

Unicode™ 2 Series Accessoires: Voltmeters

Components for Increased Safety Enclosures

ATEX/IECEx: Zones 1 and 2
Notable: UKEX, INMETRO Certified

Applications

- Suitable for use with certified Ex e enclosures for control equipment in industrial processes.

Features

- Panel mounted version with metal support 48x48mm
- DIN rail mounted (TS35) and panel mounted version 72x72mm

Technical Data

- Nominal current intensity : 6mA for both sizes
- Rated Voltage: 300 V for 48x48mm
- Rated Voltage: 500 V for 72x72mm
- Maximum short circuit 100 A for both sizes
- Frequency: 50 Hz
- Terminal connections: M4 for size 48x48; M5 for size 72x72
- Direct connections: up to 2,5mm²
- Connections by lugs : up to 4mm²

ATEX/IECEx Certifications and Compliances

- Certification Type: U2VE
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb mb IIC Gb
 - Service Temperature: -25 °C à +70 °C
 - ATEX Certificate: LCIE 14 ATEX 3027 U
 - IECEx Certificate: IECEx LCIE 14.0026 U

UKEX Certifications

- UKEX Certificate: CML 21UKEX3199U

INMETRO Certifications

- INMETRO Certificate: BVC22.4129-U



AC Voltmètre

Voltmeters — 48 x 48 mm (1.89" x 1.89") and 72 x 72mm (2.83" x 2.83")
Deflection 90° — Red adjustable index — Accuracy class 1.5 — Square barrel

Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog number
Rail mounted			
For size 48 x 48mm with scale 0-300	0.2 (0.44)	0.3 (18.3)	U2VE48300R
For size 72 x 72mm with scale 0-500	0.3 (0.66)	0.6 (36.6)	U2VE72500R
Panel mounted			
For size 48 x 48mm with scale 0-300	0.2 (0.44)	0.3 (18.3)	U2VE48300P
For size 72 x 72mm with scale 0-500	0.3 (0.66)	0.6 (36.6)	U2VE72500P
Window for voltmeter			
For size 48 x 48 mm	0.1 (0.22)	0.4 (24.4)	CA48W
For size 72 x 72 mm	0.2 (0.44)	0.4 (24.4)	CA72W

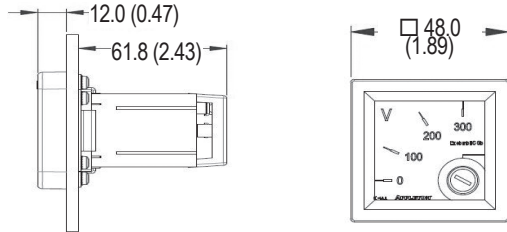
Unicode™ 2 Series Accessoires: Voltmeters

Components for Increased Safety Enclosures

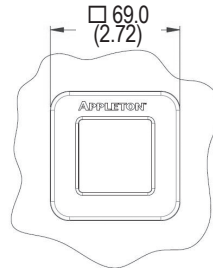
ATEX/IECEX: Zones 1 and 2
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

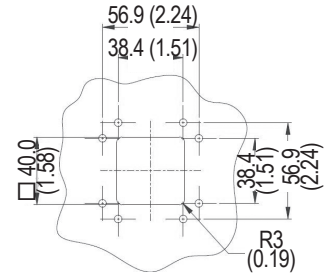
ATEX/IECEX Voltmeters 48 mm x 48 mm (1.89" x 1.89")



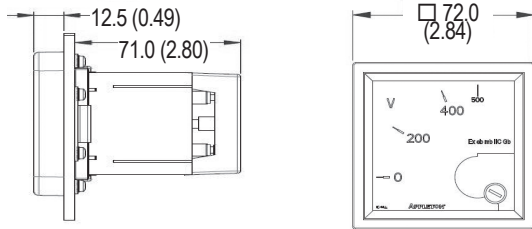
Window for Voltmeters



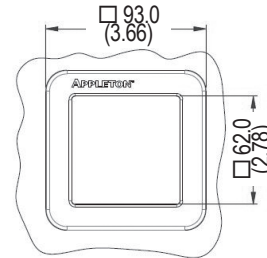
Drilling Information



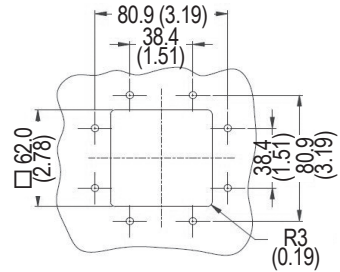
ATEX/IECEX Voltmeters — 72 mm x 72 mm (2.83" x 2.83")



Window for Voltmeters



Drilling Information



ATX™ FU40 Series Fuse Carrier

Components for Increased Safety Enclosures

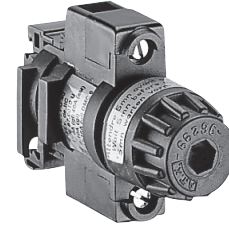
ATEX/IECEx: Zones 1 and 2
 Notable: UKEX, INMETRO Certified

Applications

- Useful as back-up fuse protection or as main fuse protection for hazardous locations.
- Can be fitted inside increased safety Ex e enclosures.

Features

- For 14 mm x 51 mm (0.55" x 2.01") cylindrical cartridge fuse 40A gG Max. and 40A aM Max.
- Adaptor which clips onto EN 50 022 and EN 50 035 rail.
- Connection via 2.5 mm² x 16 mm² (0.09 in² x 0.62 in²) terminals.



Standard Material

- Polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: FU40
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
 - Type of Protection: Ex db eb IIC Gb
- Service Temperature: -40 °C to +90 °C (-40 °F to +194 °F)
- ATEX Certificate: LCIE 15 ATEX 3014U
- IECEx Certificate: IECEx LCIE 15.0007U

UKEX Certifications

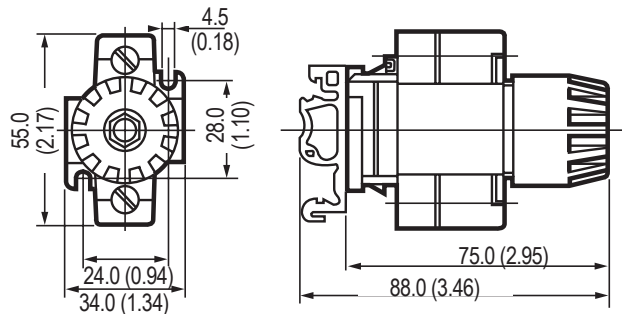
- UKEX Certificate: CML21UKEX3188U

INMETRO Certifications

- INMETRO Certificate: BVC11.0593-U

Weight kg (lb)	Volume dm ³ (in ³)	Fuse Size mm (in)	In max	Un max	Catalog Number
0.1 (0.22)	0.4 (24.4)	14 x 51 (0.55 x 2.01)	40A	690V	FU40

Dimensions in Millimeters (Inches)



ATX™ TRE Series Ex e Transformers

Increased Safety

ATEX/IECEX: Zones 1 and 2
Notable: UKEX, INMETRO Certified

Applications

- Equipment transformers are useful where the available voltage must be changed to accommodate the voltage required by the load and safety voltage.
- Suitable for use in certified increased safety enclosures and OEM increased safety applications.
- Requires primary and secondary protection by fuses or Branch Circuit Breaker.

Features

- Single phase 50/60 Hz.
- Class I.
- Circuit insulation voltage between:
 - 4500 V between windings.
 - 2300 V between primary winding and earth.
 - 1800 V between secondary winding and earth.
- Ex e Terminals capacity 4 mm² (0.006 in²).

Standard Materials

- Copper windings
- Insulation Class F

ATEX/IECEX Certifications and Compliances

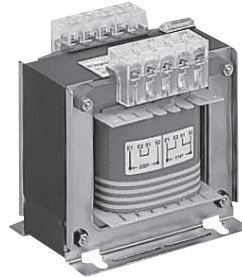
- Certification Type: TRE
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓔ II 2 G
 - Type of Protection: Ex eb IIC Gb
 - Service Temperature: -20 °C to +90 °C (-20 °C to +90 °C)
 - ATEX Certificate: LCIE 15 ATEX 3042U
 - IECEX Certificate : IECEX LCIE 15.0034U

UKEX Certifications

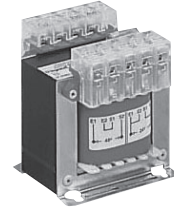
- UKEX Certificate: CML21UKEX3197U

INMETRO Certifications

- INMETRO Certificate: BVC17.5705-U



400 VA



100 VA

Catalog Numbering Guide

TRE
|
Series
TRE - ATEX/IECEX Certified
Transformer

100
|
Power:
100 - 100 VA
160 - 160 VA
250 - 250 VA
400 - 400 VA

A
|
Primary Voltage:
A - 230/400 V
B - 240/415 V

2
|
Secondary Voltage:
2 - 24/48 V
3 - 2 x 110 V

ATX™ TRE Series Ex e Transformers

Increased Safety

ATEX/IECEx: Zones 1 and 2
Notable: UKEX, INMETRO Certified

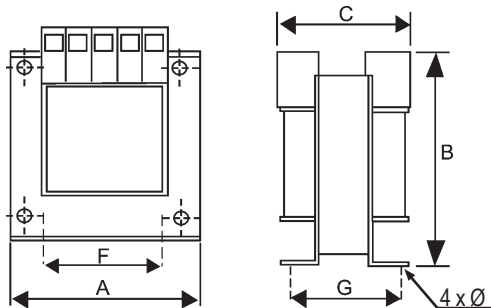
Primary	Secondary	Power	Weight kg (lb)	Volume dm ³ (in ³)	Certified Type	Catalog Number
230/400 V	24/48 V	100 VA	2.7 (5.95)	4 (244)	TSN	TRE100A2
		160 VA	4.9 (10.80)	4 (244)	TSN	TRE160A2
		250 VA	5.4 (11.90)	7 (427)	TSN	TRE250A2
		400 VA	6.9 (153.21)	7 (427)	TSN	TRE400A2
	2x110 V	100 VA	2.7 (5.95)	4 (244)	TSCN	TRE100A3
		160 VA	4.9 (10.80)	4 (244)	TSCN	TRE160A3
		250 VA	5.4 (11.90)	7 (427)	TSCN	TRE250A3
		400 VA	6.9 (153.21)	7 (427)	TSCN	TRE400A3
240/415 V	24/48 V	100 VA	2.7 (5.95)	4 (244)	TSN	TRE100B2
		160 VA	4.9 (10.80)	4 (244)	TSN	TRE160B2
		250 VA	5.4 (11.90)	7 (427)	TSN	TRE250B2
		400 VA	6.9 (153.21)	7 (427)	TSN	TRE400B2

Overcurrent Protection

Power	Power Loss	Primary Overcurrent Protection						Secondary Overcurrent Protection					
		Fuses		MCB Curve C	MCB Curve D	MCB Curve C	MCB Curve D	Fuses			MCB Curve C		
		230/240 V	400/415 V	230/240 V	400/415 V	24 V	48 V	110 V	24 V	48 V	110 V		
100 VA	6 W	1A aM	1A aM	3 A	1 A	2 A	1 A	4 A gG	2 A gG	1 A gG	4 A	2 A	1 A
160 VA	10 W	2A aM	1A aM	6 A	2 A	2 A	1 A	8 A gG	4 A gG	1 A gG	6 A	4 A	2 A
250 VA	15 W	2A aM	2A aM	6 A	3 A	3 A	2 A	10 A gG	6 A gG	2 A gG	10 A	6 A	2 A
400 VA	25 W	4A aM	2A aM	10 A	6 A	6 A	2 A	16 A gG	8 A gG	4 A gG	16 A	4 A	4 A

Dimensions in Millimeters (Inches)

Power	A	B	C	Fixing		Ø	Weight kg (lb)
				F	G		
100 VA	94 (3.70)	91 (3.58)	91 (3.58)	64 (2.52)	66 (2.60)	4.8 (0.19)	1.8 (3.97)
160 VA	96 (3.78)	102 (4.02)	96 (3.78)	84 (3.31)	78 (3.07)	5.8 (0.23)	3.2 (7.05)
150 VA	108 (4.25)	110 (4.33)	100 (3.94)	84 (3.31)	82 (3.23)	5.8 (0.23)	4.4 (9.70)
400 VA	126 (4.96)	126 (4.96)	115 (4.53)	90 (3.54)	99 (3.90)	6.5 (0.26)	6.0 (13.23)



Control Stations and Panels

ATX™ D Series Aluminum Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- Local control stations for use in hazardous areas.
- Control of electrical equipment at power plants, chemical and petrochemical plants, petroleum refineries, pulp and paper processing plants and various industrial applications.

Features

- 1 and 2 Function Ex d IIC:
 - Supplied with actuators, contact blocks and pilot lights.
 - TS35 rail mounted contact blocks.
 - Threaded flameproof joint.
 - Connection: 2 x 2.5 mm² (0.004 in²) maximum.
 - Internal earth: 2 x 4 mm² (0.006 in²).
 - External ground: M5
 - 1 x M20 or M25 threaded entry at bottom.
 - Cable glands and plugs to be ordered separately.
- 2 and 3 Function Ex d IIB:
 - Supplied with actuators and rail mounting pilot lights and contact blocks.
 - Flanged flameproof joint.
 - Yellow laminated plastic legend plate with black lettering.
 - Connection : 2 x 2.5 mm² (0.004 in²) maximum.
 - Internal earth: 2 x 4 mm² (0.006 in²).
 - External earth: M6 screw.
 - 2 x M20 threaded entries at the bottom.
 - Cable glands and plugs to be ordered separately.



1 Function



2 Function



2 Function



3 Function

Standard Materials

- Box: gray painted marine grade aluminum alloy

Options

- For other configurations, see pre-drilled control stations or consult factory.






ATEX Certifications and Compliances

- Certification Type: BR1d
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6 for Ta = +40 °C (+104 °F), T5 for Ta = +55 °C (+131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 02 ATEX 6056
- Certification Type: CF2D
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T6 for Ta ≤ +40 °C (+104 °F), T5 for +40 °C (+104 °F) < Ta ≤ +55 °C (+131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

ATX™ D Series Aluminum Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22



Type	Description/Function	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
1 Function Ex d IIC Control Stations						
Spring Return Push Button						
	BR1d	1x black spring return push button with 1NO + 1NC momentary contacts	1 x M20	1.0 (2.20)	3.75 (24.41)	DA1W1T101
	BR1d	1x black spring return push button with 1NO + 1NC momentary contacts	1 x M25	1.0 (2.20)	3.75 (24.41)	DA1W3T101
Mushroom Head Push Button						
	BR1d	1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M20	1.2 (2.65)	3.75 (24.41)	DA1W1T102
	BR1d	1x red mushroom head push-pull with 1NO + 1NC maintained contacts Padlockable in both positions	1 x M25	1.2 (2.65)	3.75 (24.41)	DA1W3T102
	BR1d	Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M20	1.2 (2.65)	3.75 (24.41)	DA1W1T104
	BR1d	Red mushroom head key release with 1NO + 1NC maintained contact Unlocked with key (MS1)	1 x M25	1.2 (2.65)	3.75 (24.41)	DA1W3T104
Time Delayed Push Button 230 V 50/60 Hz						
	BR1d	1x time delayed black impulse push button adjustable from 25s to 15mn For 1000 W incandescent or 400 W fluorescent max.	1 x M20	1.2 (2.65)	3.75 (24.41)	DA1W1T103
	BR1d	1x time delayed black impulse push button adjustable from 25 s to 15 mn For 1000 W incandescent or 400 W fluorescent max.	1 x M25	1.2 (2.65)	3.75 (24.41)	DA1W3T103
Twin Push Buttons						
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M20	1.2 (2.65)	3.75 (24.41)	DA1W1T201
	BR1d	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	1 x M25	1.2 (2.65)	3.75 (24.41)	DA1W3T201
2 Function Ex d IIB Control Stations						
Twin Push Buttons						
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	2.5 (5.51)	7.00 (427.17)	DA2W2T201
	CF2D	1x green spring return 'I' push button with 1NO momentary contact 1x red mushroom head push-pull with 1NO+1NC maintained contacts	2 x M20	2.5 (5.51)	7.00 (427.17)	DA2W2T202

Control Stations and Panels

ATX™ D Series Aluminum Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Type	Description/Function	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
3 Function Ex d IIB Control Stations						
Pilot Light and Twin Push Buttons						
	CF2D	1x red/green LED light 85 to 264 Vac 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3 (7.28)	9.00 (549.21)	DA5W2T301
Ammeter and Twin Push Buttons						
	CF2D	1x ammeter 48 x 48 CT1A 3 x FLC 0-1-3A 1x green spring return 'I' push button with 1NO momentary contact 1x red spring return 'O' push button with 1NC momentary contact	2 x M20	3.3 (7.28)	9.00 (549.21)	DA5W2T302
Ex d IIC Limit Switch						
Limit Switch Stainless steel roller control perpendicular for surface fixing. 1/4 turn fixing (may be modified by end user).						
	BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M20	1.0 (2.20)	4.60 (280.71)	DA1W1L001
	BR1d	1x roller plunger - travel 7 mm max. - Force 22 newtons with 1NO+1NC momentary contacts	1 x M25	1.0 (2.20)	4.60 (280.71)	DA1W3L001

Technical Data

		Contact Block	Light Switch
Insulation Voltage (Ui)		500 V	500 V
Switching Capacity	AC 15	4 A/115 V, 4 A/230 V, 2 A/500 V	450 W/48 V, 900 W/110 V, 1900 W/230 V
	DC 13	3 A/24 V, 1.7 A/42 V, 1.2 A/60 V, 0.8 A/110 V, 0.3 A/220 V	100 W/48 V, 100 W/110 V, 95 W/230 V
Terminal connections		0.75 to 2.5 mm ² (0.001 to 0.004 in ²)	0.75 to 2.5 mm ² (0.001 to 0.004 in ²)
Operation life		>5,000,000 Operations	> 1,000,000 Operations
LED Pilot Light			
Rated Voltage		85 Vac to 264 Vac, 50/60 Hz	
Rating		5-15 mA	
Max. Power		0.33 W	
Operation life		Average 100,000 Hours at +25 °C (+77 °F)	

ATX™ D Series Aluminum Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Electrical Diagrams

NO Contact Block



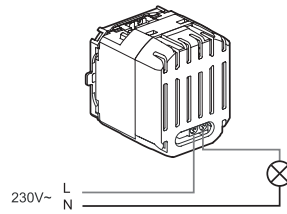
NC Contact Block



LED Pilot Light

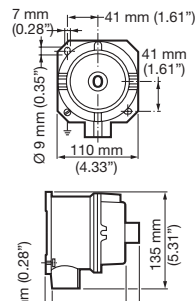


Time Delayed Push Button

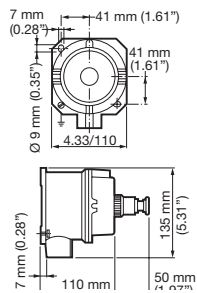


Dimensions in Millimeters (Inches)

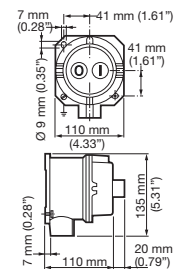
1 Function



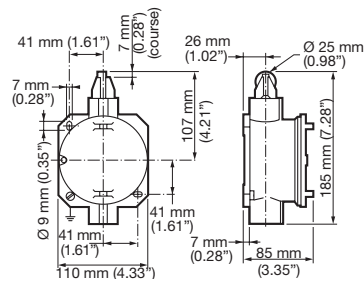
1 Function Emergency Stop



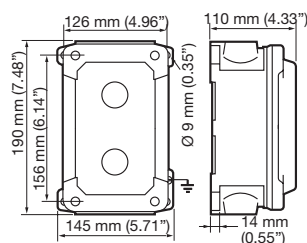
2 Functions



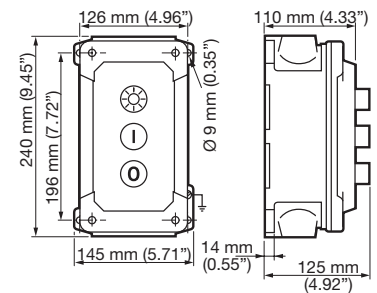
Limit Switch



2 Functions



3 Functions



Control Stations and Panels

ATX™ D Series Pre-Drilled Aluminium Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- Local control stations for use in hazardous areas.
- Control of equipment at power plants, chemical and petrochemical plants, petroleum refineries, pulp and paper processing plants and various industrial applications.

Features

- 1 and 2 Function Ex d IIC:
 - For TS35 rail mounted contact block.
 - Actuators and contact blocks to be ordered separately.
 - Up to 3 contacts per function.
 - Threaded flameproof joint.
 - Internal earth terminal 2 x 4 mm² (0.006 in²).
 - External ground terminal: M5.
 - 1 x M20 or M25 threaded entry at bottom.
 - Cable glands and plugs to be ordered separately.
- 2 to 4 Function Ex d IIB:
 - For TS35 rail mounted contact block.
 - Actuators and contact blocks to be ordered separately.
 - Up to 3 contacts per function.
 - Flanged flameproof joint.
 - Yellow laminated plastic legend plate with black lettering.
 - Internal earth terminal: 2 x 4 mm² (0.006 in²).
 - External earth terminal: M6 screw.
 - 2 x M20 threaded entries at the bottom.
 - Cable glands and plugs to be ordered separately.



1 Function



2 Function



2 Function



3 Function

Standard Materials

- BR1d and BR2d Box: gray painted marine grade aluminum alloy

ATEX Certifications and Compliances








- Certification Type: BR1d
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6 for Ta = +40 °C (+104 °F), T5 for Ta = +55 °C (+131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - Impact Resistance (shock): IK10
 - ATEX Certificate: LCIE 02 ATEX 6056
 - Index of Protection according EN/IEC 60529: IP66
- Certification Type: CF2D
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T6 for Ta = +40 °C (+104 °F), T5 for Ta = +55 °C (+131 °F)
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - Impact Resistance (shock): IK10
 - ATEX Certificate: LCIE 03 ATEX 6061X
 - Index of Protection according EN/IEC 60529: IP66

- Certification Type: BR2d
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - Impact Resistance (shock): IK09
 - ATEX Certificate: LCIE 03 ATEX 6062
 - Index of Protection according EN/IEC 60529: IP66

ATX™ D Series Pre-Drilled Aluminium Control Stations

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

For TS35 Rail Mounted Actuators						
	Type	Description/Function	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
1 Function Ex d IIC Control Stations						
	BR1d	For push button, pilot light or selector switch	1 x M20	0.9 (1.98)	2 (122)	DA1W1E101
	BR1d	For push button, pilot light or selector switch	1 x M25	0.9 (1.98)	2 (122)	DA1W3E101
2 Function Ex d IIC Pre-drilled Box						
	BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M20	0.9 (1.98)	2 (122)	DA1W1E201
	BR1d	For push button (non-mushroom type) 2 contacts maximum for each function	1 x M25	0.9 (1.98)	2 (122)	DA1W3E201
2 Function Ex d IIB Pre-drilled Box						
	CF2D	For push button, pilot light or selector switch	2 x M20	2.3 (5.07)	7 (427)	DA4W2E202
3 Function Ex d IIB Pre-drilled Box						
	CF2D	For push button, pilot light or selector switch (2 switches maximum)	2 x M20	3 (6.61)	7 (427)	DA5W2E301
	CF2D	For push button, pilot light and ammeter 48 x 48 mm (1.73 x 1.73") (ammeter with round barrel)	2 x M20	3 (6.61)	7 (427)	DA5W2E302
4 Function Ex d IIB Pre-drilled Box						
	CF2D	For push button, pilot light and ammeter 48 x 48 mm (1.73 x 1.73") (ammeter with round barrel)	2 x M20	3 (6.61)	7 (427)	DA5W2E401
1 Meter Ex d IIC Pre-drilled Box						
	BR2d	For indicator 72 x 72 mm (2.83 x 2.83") or 96 x 96 mm (3.78 x 3.78") with round barrel Mounting plate for indicator diameter 67 mm (2.64")	2 x M20	4 (8.82)	11 (671)	DA2W2E102

Control Stations and Panels

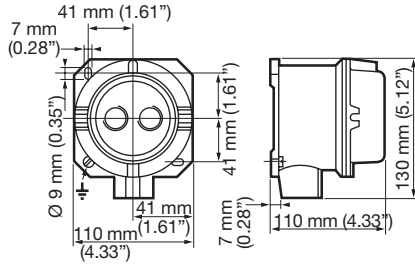
ATX™ D Series Pre-Drilled Aluminium Control Stations

Flameproof

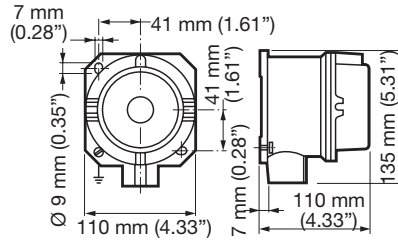
ATEX: Zones 1 and 2 - 21 and 22 | Ex II 2 GD | Ex d IIC/Ex d IIB/Ex tD A21 | IP66 | IK10

Dimensions in Millimeters (Inches) for TS35 Rail Mounted Operators

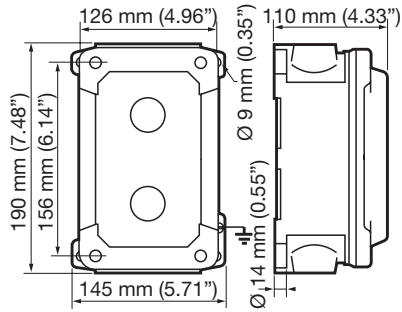
BR1d (1 Function)



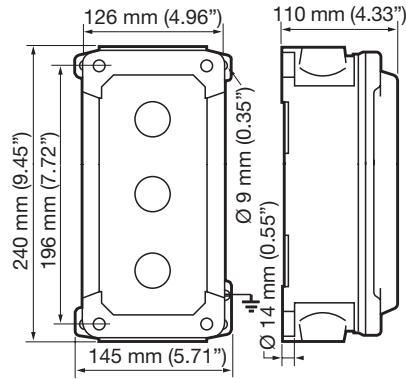
BR1d (2 Functions)



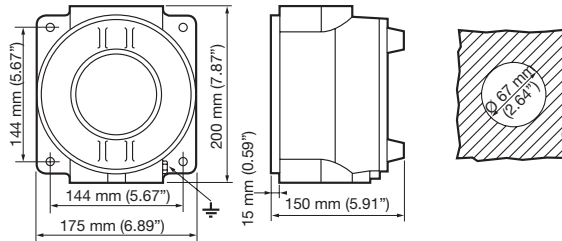
CF2D (2 Functions)



CF2D (3-4 Functions)



BR2d



ATX™ ACSEW-X Cast Control and Distribution Centers

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKCA, INMETRO Certified

Application

- Designed for use in Zones 1, 2, 21 and 22, where flammable gases, vapors or dust are present either continuously or intermittently, such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Bodies can be customized to accommodate connection terminals and other electrical components.

Features

- Bodies are available in a wide range of dimensions.
- Precision machined flame path between body and cover.
- Hinged lid.
- External fixing brackets.
- Interior mounting plate.
- O-ring seals.
- Machining, drilling and assembly must be done at our factory.
- Dissipated power calculation, including cables, must be produced for each certified case size.

Standard Materials

- Bodies and covers: sand cast copperfree (4/10 of 1% max.) aluminum
- Screws: stainless steel
- O-ring: neoprene
- Hinges: stainless steel
- Mounting plate: Galvanized steel

Standard Finish

- Bodies and covers: shot blast finish

Options

- Custom drilling and tapping is available.
- There are many options for customized enclosures not limited to: terminal strips, selector switches, operators, transformers, etc. Please contact your local representative for more information.

ATEX/IECEx Certifications and Compliances

- Certification Type: JBEW
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G
 - Type of Protection: Ex db IIB + H2 Gb
 - Temperature Class: T6 to T4
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T78 °C to T129 °C (T 172.4 °F to T264.2 °F)
 - Ambient Temperature: -40 °C to +60 °C (-40 °F to +140 °F) (depending on the components)
 - ATEX Certificate: LCIE 07 ATEX 6069X
 - IECEx Certificate: IECEx LCI 07.0018X
 - Index of Protection according EN/IEC 60529: IP66

UKCA Certification

- UKCA Certificate: CML 22UKEX1708X

INMETRO Certification

- INMETRO Certificate: BVC23.4218-X



ATX™ ACSEW-X Cast Control and Distribution Centers

Flameproof

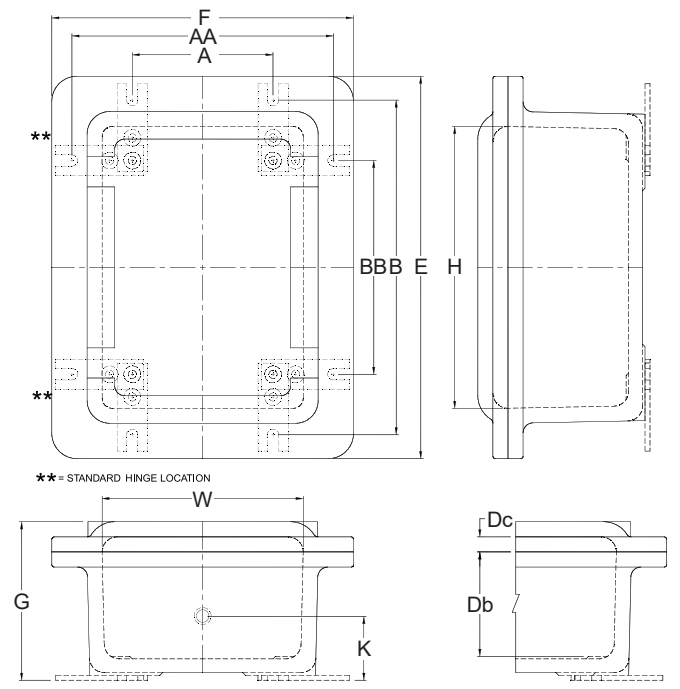
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKCA, INMETRO Certified

Enclosures — Dimensions in Millimeters (Inches)

Overall Dimensions			Mounting Dimensions				Inside Dimensions					Approximate Weight Kgs (lbs)	Catalog Number
F	E	G	A	AA	B	BB	W	H	Db	Dc	K		
260.0 (10.24)	260.0 (10.24)	161.5 (6.36)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.0 (22.05)	ACSEW060604X#
376.2 (14.81)	376.2 (14.81)	231.9 (9.13)	165.1 (4.56)	273.8 (10.78)	330.2 (13.00)	114.3 (4.50)	260.4 (10.25)	260.4 (10.25)	146.1 (5.75)	38.1 (1.50)	85.9 (3.38)	20.0 (44.09)	ACSEW101006X#
368.3 (14.50)	469.9 (18.50)	244.6 (9.63)	N/A	330.2 (13.00)	N/A	270.0 (10.63)	254.0 (10.00)	355.6 (14.00)	196.9 (7.75)	19.1 (0.75)	112.8 (4.44)	27.2 (59.97)	ACSEW101408X#
492.3 (19.38)	492.3 (19.38)	293.6 (11.58)	247.7 (9.75)	450.9 (17.75)	450.9 (17.75)	247.7 (9.75)	374.7 (14.75)	374.7 (14.75)	196.9 (7.75)	35.1 (1.38)	101.6 (4.00)	47.6 (104.94)	ACSEW141408X#
543.1 (21.38)	593.9 (23.38)	382.5 (15.06)	304.8 (12.00)	482.6 (19.00)	533.4 (21.00)	355.6 (14.00)	412.8 (16.25)	463.6 (18.25)	301.8 (11.88)	9.7 (0.38)	177.8 (7.00)	68.0 (149.91)	ACSEW161812X#
593.9 (23.38)	593.9 (23.38)	303.3 (11.94)	330.2 (13.00)	552.5 (21.75)	552.5 (21.75)	330.2 (13.00)	463.6 (18.25)	463.6 (18.25)	196.9 (7.75)	38.1 (1.50)	114.3 (4.50)	89.8 (197.98)	ACSEW181808X#
608.1 (23.94)	762.0 (30.00)	360.2 (14.18)	409.7 (16.13)	552.5 (21.75)	704.9 (27.75)	466.9 (18.38)	463.6 (18.25)	614.4 (24.19)	247.7 (9.75)	38.1 (1.50)	146.1 (5.75)	106.6 (235.01)	ACSEW182410X#
596.9 (23.50)	1060.5 (41.75)	363.5 (14.31)	279.4 (11.00)	552.5 (21.75)	1003.3 (39.50)	736.6 (29.00)	463.6 (18.25)	927.1 (36.50)	247.7 (9.75)	38.1 (1.50)	139.7 (5.50)	122.5 (270.07)	ACSEW183610X#
746.3 (29.38)	746.3 (29.38)	312.7 (12.31)	466.9 (18.38)	711.2 (28.00)	711.2 (28.00)	466.9 (18.38)	622.3 (24.50)	622.3 (24.50)	196.9 (7.75)	38.1 (1.50)	127.0 (5.00)	102.1 (225.09)	ACSEW242408X#
781.1 (30.75)	1092.2 (43.00)	382.5 (15.06)	463.6 (18.25)	711.2 (28.00)	1016.0 (40.00)	736.6 (29.00)	616.0 (24.25)	920.8 (36.25)	247.7 (9.75)	41.4 (1.63)	152.4 (6.00)	204.1 (449.96)	ACSEW243610X#
914.4 (36.00)	1117.6 (44.00)	349.3 (13.75)	N/A	889.0 (35.00)	N/A	736.6 (29.00)	762.0 (30.00)	965.2 (38.00)	196.9 (7.75)	50.8 (2.00)	155.7 (6.13)	272.2 (600.10)	ACSEW303808X#

Mounting Pans — Overall Dimensions in Millimeters (Inches)

Junction Box Catalog Number	W	H	Mounting Pan Catalog Number
ACSEW101006X	190.5 (7.50)	190.5 (7.50)	AZ-10104/6
ACSEW101408X	228.6 (9.00)	330.2 (13.00)	AZ-10146/8
ACSEW141408X	311.2 (12.25)	311.2 (12.25)	AZ-14146/8
ACSEW161812X	381.0 (15.00)	406.4 (16.00)	AZ-161812
ACSEW181808X	406.4 (16.00)	406.4 (16.00)	AZ-18186/8
ACSEW182410X	406.4 (16.00)	558.8 (22.00)	AZ-18248/10
ACSEW183610X	431.8 (17.00)	882.7 (34.75)	AZ-18368/10
ACSEW242408X	558.8 (22.00)	558.8 (22.00)	AZ-24248/10
ACSEW243610X	558.8 (22.00)	863.6 (34.00)	AZ-24368/10
ACSEW303808X	711.2 (28.00)	914.4 (36.00)	AZ-30388



Control Stations and Panels

APDAC/APDSC Series Control Stations

Flameproof

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Small terminal junction boxes designed to facilitate electrical connections in hazardous areas.
- Designed for use in Zone 1 or 2 areas, where flammable gases or vapors are present either continuously or intermittently.
- Ideal for use in wet or corrosive atmospheres, such as:
 - Petroleum refineries
 - Chemical refineries
 - Other industrial process facilities
- Designed for use in Zone 21 or 22 areas, where flammable dusts are present either continuously or intermittently, such as:
 - Food processing
 - Dairy
 - Brewing
 - Silos
 - Other facilities

Features

- High impact resistant box.
- Pillar/screw type terminal block up to 16 mm² (0,024 po²) is available in standard sizes.
- Internal earth: one of the mounting hole for terminals so provided with M5 Screws.
- External earth: M5 screw.
- Back plate supplied as option.
- Operating temperature -20 °C +55 °C (-4 °F to +131 °F).
- Empty enclosures with 'U' certification marking for re-certification is available.
- Electrical data:
 - Maximum voltage: AC, 690 Vac/440 Vdc
 - Current rating: 50 Amp. Vac/Vdc

Standard Material

- Housing: aluminum; 304/316L stainless steel available on request
- Hardware: stainless steel

Standard Finishes

- Housing: marine grade gray epoxy powder coat.



APD_C13P

ATEX/IECEX Certifications and Compliances

- Certification Type: APDAC/APDSC
 - 16, 25 and 32 Amp Switches
 - Gas, Zones 1 and 2:
 - Conforming to Directive ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex db IIC T* Gb
 - Temperature Class:
 - T6: 10 Watt Maximum Power Dissipation
 - T5: 20 Watt Maximum Power Dissipation
 - Dust, Zones 21 and 22:
 - Conforming to Directive ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC T* Db
 - Surface Temperature: T75 °C to T90 °C (T167 °F to T194 °F)
 - T75 °C: 10 Watt Maximum Power Dissipation
 - T90 °C: 20 Watt Maximum Power Dissipation
 - Ambient Temperature: -20 °C ≤ to ≤ +55 °C (-4 °F ≤ to ≤ +131 °F)
 - ATEX Certificate: ExVeritas 19ATEX 0523X; ExVeritas 19ATEX 0524U
 - IECEx Certificate: IECEx EXV: 19.0047X; IECEx EXV 119.0048U
 - Index of Protection according EN/IEC 60529: IP66
 - Internal Volume: ≤ 2 dm³ (122 in³) — 2 liters

Catalog Numbering Guide — APD Series 130 mm (5.12 in) Diameter Control Station

<p>APD</p> <p>Series:</p> <p>APD: ATEX/IECEX Certified Enclosure</p>	<p>A</p> <p>Material :</p> <p>A - Aluminium S - Stainless Steel</p>	<p>C</p> <p>Gas Group:</p> <p>C - IIC</p>	<p>13</p> <p>Size mm (in):</p> <p>13P - 130 (5.12)</p>	<p>13</p> <p>Component: ①</p> <p>IR2 - Indicating Lamp-Red MR - Mushroom Head Push Button 2P - 2 Position Selector P162 - 16 Amp, 2-Pole Switch C - Special/Custom Version</p>	<p>A1</p> <p>Top/Bottom Entry</p> <p>Side:</p> <p>A - Bottom C - Top</p>	<p>B1</p> <p>Left/Right Side Entry</p> <p>Side:</p> <p>B - Left D - Right</p>	<p>Code:</p> <p>1 - 2 x M20 2 - 2 x M25 3 - 2 x 1/2" 4 - 2 x 3/4"</p>	<p>Terminal:</p> <p># - Customized version For Maximum terminals refer to allowed Manufacturer Drawing</p>
---	--	--	---	---	---	--	---	--

① See full component list for all available options.

APDAC/APDSC Series Control Stations

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Equipment	Catalog Number ①
Control Station with Pilot Light	
Enclosure with Red Pilot Light and Entry at Bottom	APDAC 13P IR2 A1 #
Enclosure with 16A - 2 Pole Switch with 2 X M20 Entry at Bottom	APDAC 13P P162 A1 #
Enclosure with 32A - 3 Pole Switch with 2 X M25 Entry at Bottom	APDAC 13P P323 A2 #
Customized Enclosures	
Entry on any side	APDAC 13 #

Components

Description	Suffix
Spring Return Push Button	
Green spring return 'I' push button with 1NO momentary contact	PG
Red spring return 'O' push button with 1NC momentary contact	PR
Rotary Actuator	
2 maintained positions with 1NO maintained contact	2P
2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	2PM
Mushroom Head Push Button	
Red mushroom head spring return with 1NC momentary contact - Padlockable in both positions	MR
Red mushroom head push pull with 1NC maintained contact- Padlockable in both positions	MRP
Red mushroom head key release with 1NC maintained contact - Unlocked with key (MS1)	MRK

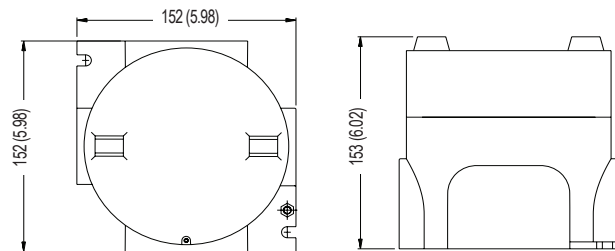
LED Pilot Lights

Voltage	Color	Suffix
12 to 30 Vac/Vdc	Red	IR0
	Green	IG0
	White	IW0
	Blue	IB0
48 to 60 Vac/Vdc	Yellow	IY0
	Red	IR1
	Green	IG1
	White	IW1
	Blue	IB1
	Yellow	IY1

Control Stations and Panels

Dimensions in Millimeters (Inches)

APADAC 130 mm (5.12") P



Type	Internal Dimensions			External Dimensions		Weight kg (lb)	
	Dia Ø	Height	Length	Width	Height	Aluminum	Stainless Steel
APADAC130P	130 (5.12)	121 (4.76)	152 (5.98)	152 (5.98)	153 (6.02)	2.00 (4.41)	5.92 (13.05)

① Other configurations available on request. Please contact your local sales representative.

ATX™ D Series Components

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

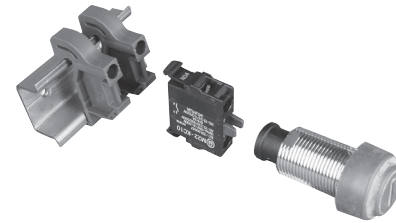
- Suitable for use with certified flameproof Ex d enclosures for control equipment.

Features

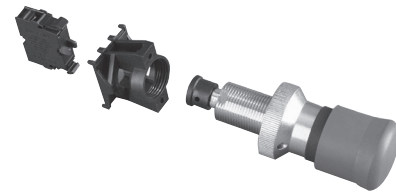
- DIN rail mounted (TS35) and panel mounted versions.
- Large range of M22 x 1.5 mm (0.059") screwed actuator operators including, push buttons, rotary actuators, pilot lights, ammeters and selector switches.
- Fully supplied with actuator, shaft, contact block and yellow laminated plastic legend plate with black lettering 60 x 50 mm (2.36" x 1.97").

ATEX/IECEx Certifications and Compliances

- Certification Type: TCD
 - Gas, Zones 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db IIC Gb
 - Dust, Zones 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Service Temperature: -40 °C to +105 °C (-40 °F to +221 °F)
 - ATEX Certificate: LCIE 02 ATEX 0036 U
 - IECEx Certificate: IECEx LCI 10.0022U
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10



Rail Mounted Version



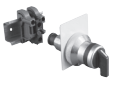






Panel Mounted Version

ATX™ D Series Components

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22








	Description/Function	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number ①
	Spring Return Push Button			
	Green spring return 'I' push button with 1NO momentary contact	0.2 (0.44)	0.4 (24.4)	DA5GR
	Red spring return 'O' push button with 1NC momentary contact	0.2 (0.44)	0.4 (24.4)	DA9RR
	Mushroom Head Push Button			
	Red mushroom head spring return with 1NC momentary contact Padlockable in both positions	0.2 (0.44)	0.4 (24.4)	DR9R
	Red mushroom head push pull with 1NC maintained contact Padlockable in both positions	0.2 (0.44)	0.4 (24.4)	DD9R
	Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2 (0.44)	0.4 (24.4)	DC9R
	Rotary Actuator			
	2 maintained positions with 1NO maintained contact	0.2 (0.44)	0.4 (24.4)	DH5R
	2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2 (0.44)	0.4 (24.4)	DG5R
	Additional Contacts			
	1 x NO contact	0.1 (0.22)	0.2 (12.20)	DCB5R
	1 x NC contact	0.1 (0.22)	0.2 (12.20)	DCB9R
	LED Pilot Lights			
	Red 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPR12R
	Green 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPG12R
	White 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPW12R
	Blue 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPB12R
	Yellow 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPY12R
	Red 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPR48R
	Green 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPG48R
	White 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPW48R
	Blue 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPB48R
	Yellow 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPY48R
	Red 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPR85R
	Green 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPG85R
	White 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPW85R
Blue 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPB85R	
Yellow 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPY85R	
	Transfer Kit			
	To be used when replacing old catalog number range of contacts 094057 and 094058 and old catalog number range of indicators 093990-093991 and 094090-094091	0.2 (0.44)	0.4 (24.4)	093958
	16 A Switches			
	1-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS116R
	2-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS216R
	3-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS316R
	4-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS416R
	2 way 1-pole selector switch with non-padlockable handle "1-2"	0.3 (0.66)	0.5 (30.51)	DS21601R
	3 way 1-pole selector switch with non-padlockable handle "1-0-2"	0.3 (0.66)	0.5 (30.51)	DS21602R

① Legend plate supplied.

ATX™ D Series Components

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22






	Description/Function	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number ①
	Spring Return Push Button			
	Green spring return 'I' push button with 1NO momentary contact	0.2 (0.44)	0.4 (24.4)	DA5GP
	Red spring return 'O' push button with 1NC momentary contact	0.2 (0.44)	0.4 (24.4)	DA9RP
	Mushroom Head Push Button			
	Red mushroom head spring return with 1NC momentary contact Padlockable in both positions	0.2 (0.44)	0.4 (24.4)	DR9P
	Red mushroom head push pull with 1NC maintained contact Padlockable in both positions	0.2 (0.44)	0.4 (24.4)	DD9P
	Red mushroom head key release with 1NC maintained contact Unlocked with key (MS1)	0.2 (0.44)	0.4 (24.4)	DC9P
	Rotary Actuator			
	2 maintained positions with 1NO maintained contact	0.2 (0.44)	0.4 (24.4)	DH5P
	2 maintained positions key operated with 1NO maintained contact key removable in both positions (MS1)	0.2 (0.44)	0.4 (24.4)	DG5P
	Additional Contacts			
	1 x NO contact	0.1 (0.22)	0.2 (12.20)	DCB5P
	1 x NC contact	0.1 (0.22)	0.2 (12.20)	DCB9P
	LED Pilot Lights			
	Red 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPR12P
	Green 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPG12P
	White 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPW12P
	Blue 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPB12P
	Yellow 12 to 30 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPY12P
	Red 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPR48P
	Green 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPG48P
	White 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPW48P
	Blue 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPB48P
	Yellow 48 to 60 Vac/Vdc	0.1 (0.22)	0.4 (24.4)	DPY48P
	Red 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPR85P
	Green 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPG85P
	White 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPW85P
	Blue 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPB85P
	Yellow 85 to 264 Vac	0.1 (0.22)	0.4 (24.4)	DPY85P
	Transfer Kit			
To be used when replacing old catalog number range of contacts 094055 and 094056 and old catalog number range of indicators 093992-093993 and 094092-094093	0.2 (0.44)	0.4 (24.4)	093959	
	16 A Switches			
	1-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS116P
	2-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS216P
	3-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS316P
	4-pole switch with non-padlockable handle "0-1"	0.3 (0.66)	0.5 (30.51)	DS416P
	2 way 1-pole selector switch with non-padlockable handle "1-2"	0.3 (0.66)	0.5 (30.51)	DS21601P
	3 way 1-pole selector switch with non-padlockable handle "1-0-2"	0.3 (0.66)	0.5 (30.51)	DS21602P
	2 way 2-pole selector switch with non-padlockable handle "1-2"	0.3 (0.66)	0.5 (30.51)	DS41601P
	3 way 2-pole selector switch with non-padlockable handle "1-0-2"	0.3 (0.66)	0.5 (30.51)	DS41602P

① Legend plate supplied.

ATX™ D Series Components

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Description/Function	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number ①
Spare Shrouds for Spring Return Push Buttons			
 Green shroud marked "I"	0.1 (0.22)	0.2 (12.20)	DSG
Red shroud marked "0"	0.1 (0.22)	0.2 (12.20)	DSR
Green shroud marked "start"	0.1 (0.22)	0.2 (12.20)	DSS
Red shroud marked "STOP"	0.1 (0.22)	0.2 (12.20)	DSA
Black shroud (unmarked)	0.1 (0.22)	0.2 (12.20)	DSN
Blue shroud (unmarked)	0.1 (0.22)	0.2 (12.20)	DSB
Aluminum Guard Painted Red			
Mushroom head actuator protection			DGD1A
Stainless Steel Padlocking Devices			
For spring return push button			DPLD1S
For rotary actuator, red mushroom head spring return or push-pull			DPLD2S
Spare Lenses for Pilot Lights			
 Red	0.1 (0.22)	0.2 (12.20)	DPRENS
Green	0.1 (0.22)	0.2 (12.20)	DPGLENS
White	0.1 (0.22)	0.2 (12.20)	DPWLENS
Blue	0.1 (0.22)	0.2 (12.20)	DPBLENS
Yellow	0.1 (0.22)	0.2 (12.20)	DPYLENS
Spare Handle for Switches			
 Non-padlockable handle	0.2 (0.44)	0.2 (12.20)	DSNPH
 Padlockable handle — 48 mm x 48 mm (1.89" x 1.89")	0.06 (0.13)	0.3 (18.31)	DSPH
Laminated Plastic Legend Plate with Black Lettering			
Large size — 60 mm x 50 mm (2.36 in x 1.97")			DLP00
Small size — 45 mm x 31.2 mm (1.77" x 1.24")			DLP01
Blanking Plug			
 Used to close up unused openings on cover M22 x 1.5 mm (0.059")	0.2 (0.44)	0.2 (12.20)	DBPM22

ATX™ D Series Components

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Non ATEX ammeters 48 mm x 48 mm (1.89" x 1.89") — Connection on Current Transformer — Deflection 90° — Class 1.5 — Round Barrel				
Description/Function		Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Rail Mounted				
1A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1 (0.22)	0.4 (24.4)	DMA1348R
1A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1 (0.22)	0.4 (24.4)	DMA1548R
1A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1 (0.22)	0.4 (24.4)	DMA1648R
5A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1 (0.22)	0.4 (24.4)	DMA5348R
5A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1 (0.22)	0.4 (24.4)	DMA5548R
5A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1 (0.22)	0.4 (24.4)	DMA5648R
Panel Mounted				
1A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1 (0.22)	0.4 (24.4)	DMA1348P
1A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1 (0.22)	0.4 (24.4)	DMA1548P
1A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1 (0.22)	0.4 (24.4)	DMA1648P
5A C.T. 3 x F.L.C.	with 0-1-3 Scale	0.1 (0.22)	0.4 (24.4)	DMA5348P
5A C.T. 5 x F.L.C.	with 0-1-5 Scale	0.1 (0.22)	0.4 (24.4)	DMA5548P
5A C.T. 6 x F.L.C.	with 0-1-6 Scale	0.1 (0.22)	0.4 (24.4)	DMA5648P
AC Ammeter Accessory				
Red Adjustable Index				DM48A



Interchangeable Dials for Above Ammeter

Scale	Catalog Number	Scale	Catalog Number	Scale	Catalog Number
For 1 A Current Transformer 3 x F.L.C.					
0 - 5 - 15	A DA135				
0 - 10 - 30	A DA1310				
0 - 15 - 45	A DA1315				
0 - 20 - 60	A DA1320				
0 - 30 - 90	A DA1330				
0 - 40 - 120	A DA1340				
0 - 50 - 150	A DA1350				
0 - 60 - 180	A DA1360				
0 - 75 - 225	A DA1375				
0 - 100 - 300	A DA13100				
0 - 125 - 375	A DA13125				
0 - 150 - 450	A DA13150				
0 - 200 - 600	A DA13200				
0 - 250 - 750	A DA13250				
For 1 A Current Transformer 5 x F.L.C.					
0 - 5 - 25	A DA155				
0 - 10 - 50	A DA1510				
0 - 15 - 75	A DA1515				
0 - 20 - 100	A DA1520				
0 - 30 - 150	A DA1530				
0 - 40 - 200	A DA1540				
0 - 50 - 250	A DA1550				
0 - 60 - 300	A DA1560				
0 - 75 - 375	A DA1575				
0 - 100 - 500	A DA15100				
0 - 125 - 625	A DA15125				
0 - 150 - 750	A DA15150				
0 - 200 - 1000	A DA15200				
0 - 250 - 1250	A DA15250				
For 1 A Current Transformer 6 x F.L.C.					
0 - 5 - 30	A DA165				
0 - 10 - 60	A DA1610				
0 - 15 - 90	A DA1615				
0 - 20 - 120	A DA1620				
0 - 30 - 180	A DA1630				
0 - 40 - 240	A DA1640				
0 - 50 - 300	A DA1650				
0 - 60 - 360	A DA1660				
0 - 75 - 450	A DA1675				
0 - 100 - 600	A DA16100				
0 - 125 - 750	A DA16125				
0 - 150 - 900	A DA16150				
0 - 200 - 1200	A DA16200				
0 - 250 - 1500	A DA16250				
For 5 A Current Transformer 3 x F.L.C.					
0 - 5 - 15	A DA535				
0 - 10 - 30	A DA5310				
0 - 15 - 45	A DA5315				
0 - 20 - 60	A DA5320				
0 - 30 - 90	A DA5330				
0 - 40 - 120	A DA5340				
0 - 50 - 150	A DA5350				
0 - 60 - 180	A DA5360				
0 - 75 - 225	A DA5375				
0 - 100 - 300	A DA53100				
0 - 125 - 375	A DA53125				
0 - 150 - 450	A DA53150				
0 - 200 - 600	A DA53200				
0 - 250 - 750	A DA53250				
For 5 A Current Transformer 5 x F.L.C.					
0 - 5 - 25	A DA555				
0 - 10 - 50	A DA5510				
0 - 15 - 75	A DA5515				
0 - 20 - 100	A DA5520				
0 - 30 - 150	A DA5530				
0 - 40 - 200	A DA5540				
0 - 50 - 250	A DA5550				
0 - 60 - 300	A DA5560				
0 - 75 - 375	A DA5575				
0 - 100 - 500	A DA55100				
0 - 125 - 625	A DA55125				
0 - 150 - 750	A DA55150				
0 - 200 - 1000	A DA55200				
0 - 250 - 1250	A DA55250				
For 5 A Current Transformer 6 x F.L.C.					
0 - 5 - 30	A DA565				
0 - 10 - 60	A DA5610				
0 - 15 - 90	A DA5615				
0 - 20 - 120	A DA5620				
0 - 30 - 180	A DA5630				
0 - 40 - 240	A DA5640				
0 - 50 - 300	A DA5650				
0 - 60 - 360	A DA5660				
0 - 75 - 450	A DA5675				
0 - 100 - 600	A DA56100				
0 - 125 - 750	A DA56125				
0 - 150 - 900	A DA56150				
0 - 200 - 1200	A DA56200				
0 - 250 - 1500	A DA56250				

Control Stations and Panels



ATX™ D Series Components

Flameproof


ATEX/IECEx: Zones 1 and 2 – 21 and 22

Technical Data

Contact Block

	
NO Contact Block	NC Contact Block
Insulation Voltage (Ui)	500 V
Switching Capacity	
AC 15	4 A/115 V, 4 A/230 V, 2 A/500 V
DC 13	3 A/24 V, 1.7 A/42 V, 1.2 A/60 V, 0.3 A/220 V
Terminal connections	0.75 mm ² to 2.5 mm ² (0.0012 in ² to 0.004 in ²)
Operation life	>5,000,000 Operations

LED Pilot Light

	
Rated Voltage	85-264 Vac, 50/60 Hz
Rating	5-15mA
Max. Power	0.33 W
Operation life	Average 100,000 Hours at +25 °C (+77 °F)

16 A Selector Switch

Rated insulation voltage	690 V	
Thermal rating	20 A	
AC 21	16 A	
AC 15	6 A	
AC 23	3 x 230 V	4 KW
	3 x 400 V	7.5 KW
	3 x 500 V	5.5 KW
	3 x 690 V	4 KW
AC 3	3 x 230 V	3 KW
	3 x 400 V	4 KW
	3 x 500 V	5.5 KW
	3 x 690 V	3 KW
Flexible Terminal connections	2.5 mm ² (0.004 in ²)	
Solid Terminal connections	4 mm ² (0.006 in ²)	

16 A Selector Switch Positions — X = Contact Closed

DS116

Positions	Contacts 1-2
0	
1	X

DS216

Positions	Contacts 1-2	3-4
0		
1	X	X

DS316

Positions	Contacts 1-2	3-4	5-6
0			
1	X	X	X

DS416

Positions	Contacts 1-2	3-4	5-6	7-8
0				
1	X	X	X	X

DS21601

Positions	Contacts 1-2	3-4
1	X	
2		X

DS21602

Positions	Contacts 1-2	3-4
1	X	
0		
2		X

DS41601

Positions	Contacts 1-2	3-4	5-6	7-8
1	X		X	
2		X		X

DS41602

Positions	Contacts 1-2	3-4	5-6	7-8
1	X		X	
0				
2		X		X

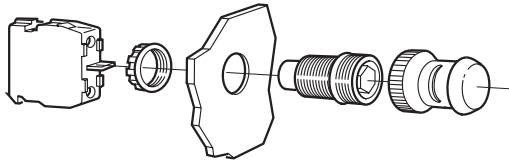
ATX™ D Series Components

Flameproof

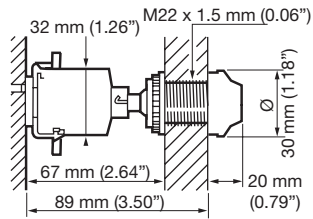
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

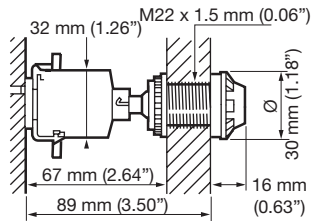
Rail Mounted



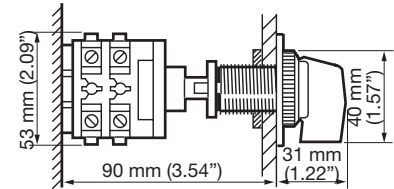
Rail Mounted Push Button



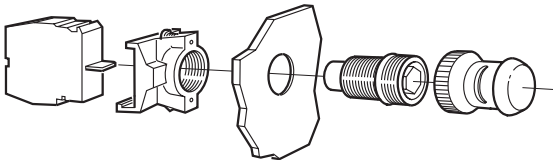
Rail Mounted Pilot Light



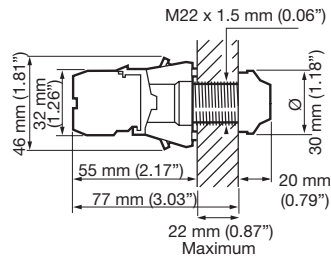
Back Mounted Switch



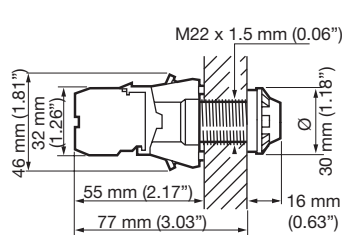
Panel Mounted



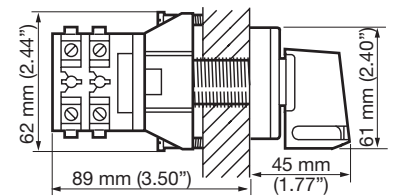
Panel Mounted Push Button



Panel Mounted Pilot Light

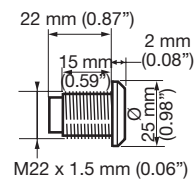


Panel Mounted Switch

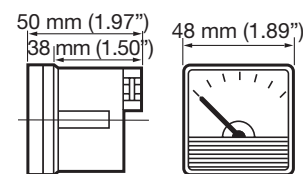


Accessories

Blanking Plug



Ammeter



ATX™ DM Series Motor Starters

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- DM Series motor starters are used in areas where hazardous materials are handled or stored.
- These units provide disconnecting means and thermal overload protection.

Features

- Three pole contactor.
- Thermal overload relay with stop/reset push button.
- Start push button.
- Rated voltage 400/415 Vac, 50/60 Hz AC-3 category.
- Yellow laminated plastic legend plate with black lettering.
- Internal earth terminal: 2 x 4 mm².
- External ground terminal: M5 for Ex d IIB version.
- Earth crossing terminal: M8 for Ex d IIC version.
- 1 x M20 entry on top.
- 2 x M20 entries at bottom with one blanking plug.

Standard Materials

- Housing: gray painted marine grade aluminum alloy (RAL7038).
- Cover bolts: A4 stainless steel

ATEX Certifications and Compliances

- Certification Type: CF2D
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T4 [ta +40 °C (+104 °F)] or T3 [ta +55 °C (+131 °F)]
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T195 °C (T383 °F)



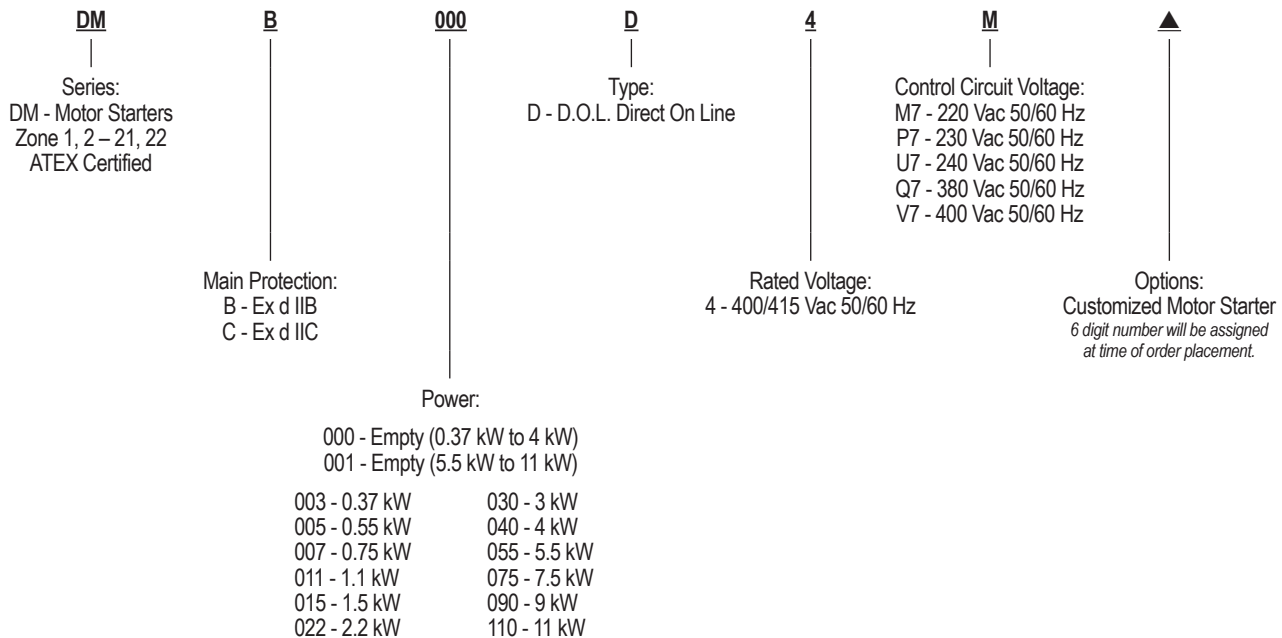
Ex d IIB Version - CF2D Type



Ex d IIC Version - CF1B Type

- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- ATEX Certificate: LCIE 03 ATEX 6061X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10
- Certification Type: CF1B
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T4 [ta +40 °C (+104 °F)] or T3 [ta +55 °C (+131 °F)]
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T195 °C (T383 °F)
- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- ATEX Certificate: LCIE 03 ATEX 6044X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

Catalog Numbering Guide



ATX™ DM Series Motor Starters

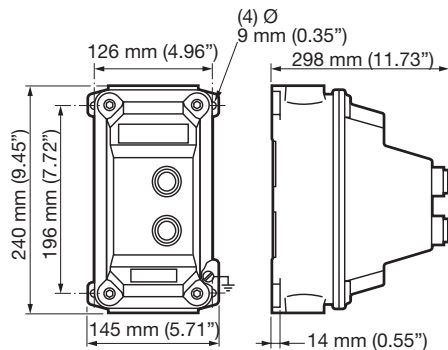
Flameproof

ATEX: Zones 1 and 2 – 21 and 22

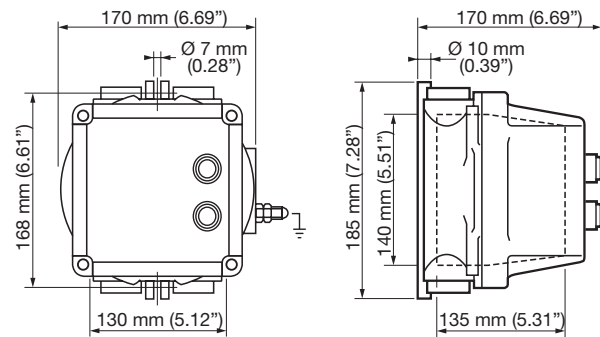
Type	Protection	Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Enclosure for Housing Contactor with Overload Relay up to 11 kW Ex d IIB T4 (for Ta +40 °C) or T3 (for Ta+55 °C)					
CF2D	IIB	For 0.37 kW to 4 kW (9 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D09 and LRD – from Schneider Electric ①)	4.0 (8.82)	14.0 (854.3)	DMB000D
CF2D	IIB	For 5.5 kW to 11 kW (25 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D25 and LRD – from Schneider Electric ①)	4.0 (8.82)	14.0 (854.3)	DMB001D
Enclosure Fitted and Prewired with Contactor and Thermal Overload Relay					
CF2D	IIB	For 5.5 kW 400/415 Vac Motor Coil 230 Vac Fitted with contactor LC1-D25 P7 and thermal overload relay LRD-16	4.5 (9.92)	14.0 (854.3)	DMB055D4P
Enclosure for Housing Contactor with Overload Relay up to 11 kW Ex d IIC T4 (for Ta +40 °C) or T3 (for Ta +55 °C)					
CF1B	IIC	For 0.37 kW to 4 kW (9 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D09 and LRD — from Schneider Electric ①)	4.0 (8.82)	14.0 (854.3)	DMC000D
CF1B	IIC	For 5.5 kW to 11 kW (25 Amp, 400/415 Vac max.) contactor and thermal overload relay not supplied (LC1D25 and LRD — from Schneider Electric ①)	4.0 (8.82)	14.0 (854.3)	DMC001D
Enclosure Fitted and Prewired with Contactor and Thermal Overload Relay					
CF1B	IIC	For 5.5 kW 400/415 Vac Motor Coil 230 Vac Fitted with contactor LC1-D25 P7 and thermal overload relay LRD-16	4.5 (9.92)	14.0 (854.3)	DMC055D4P

Dimensions in Millimeters (Inches)

Type CF2D



Type CF1B



① Schneider Electric is a registered trademark Schneider Electric SA.

ATX™ MS Series Motor Starters

Flameproof

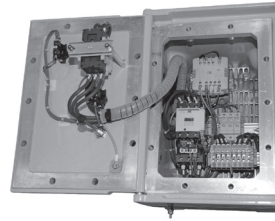
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

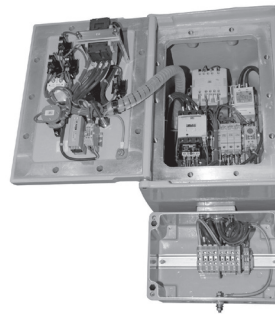
- These motor starters are used in areas where hazardous material are handled or stored. These units provide:
 - Disconnecting means
 - Undervoltage protection
 - Circuit protection
 - Motor running protection
 - Thermal time delay overload protection

Features

- Magnetic circuit breaker protects equipment and personnel and eliminates replacement of fuses.
- Three pole contactor.
- Thermal overload relay with manual reset push button.
- Green pilot light "Running/ON".
- Rated voltage 400/415 Vac 50/60 Hz AC-3 category.
- Control circuit supplied via a transformer fed between phases.
- Direct entries or indirect entries with Ex e box allows use of cable gland with elastomer seal.
- Type 2 coordinated protection (IEC 60947-4-1) has the following benefits:
 - Safety: limiting the energy delivered to the short circuit ensures the safest applications for personnel, facilities and equipment.
 - Reduced costs: preventing short circuit damage to components minimizes labor and replacement costs.
 - Increased productivity: as component replacement due to short circuits is minimized, so are interruptions to production.
- Direct ammeter for 0.37 kW to 2.2 kW versions. Ammeter with current transformer for 3 kW to 75 kW versions.



Version Exd



Version Ex de



Standard Materials

- Body and cover:
 - Gray painted marine grade aluminum alloy (RAL 7038)
 - Cover bolts: stainless steel
 - Hinges: stainless steel
- Ex e box for indirect entries:
 - Gray (RAL 7038) painted aluminum alloy (size 2 and 6) or stainless steel (size 8 and 11)
 - Cover bolts: A4 stainless steel

Standard Finish

- Corrosion resistant gray powder coat epoxy

Options

- Available up to 300 kW - contact your local representative.

ATEX/IECEx Certifications and Compliances

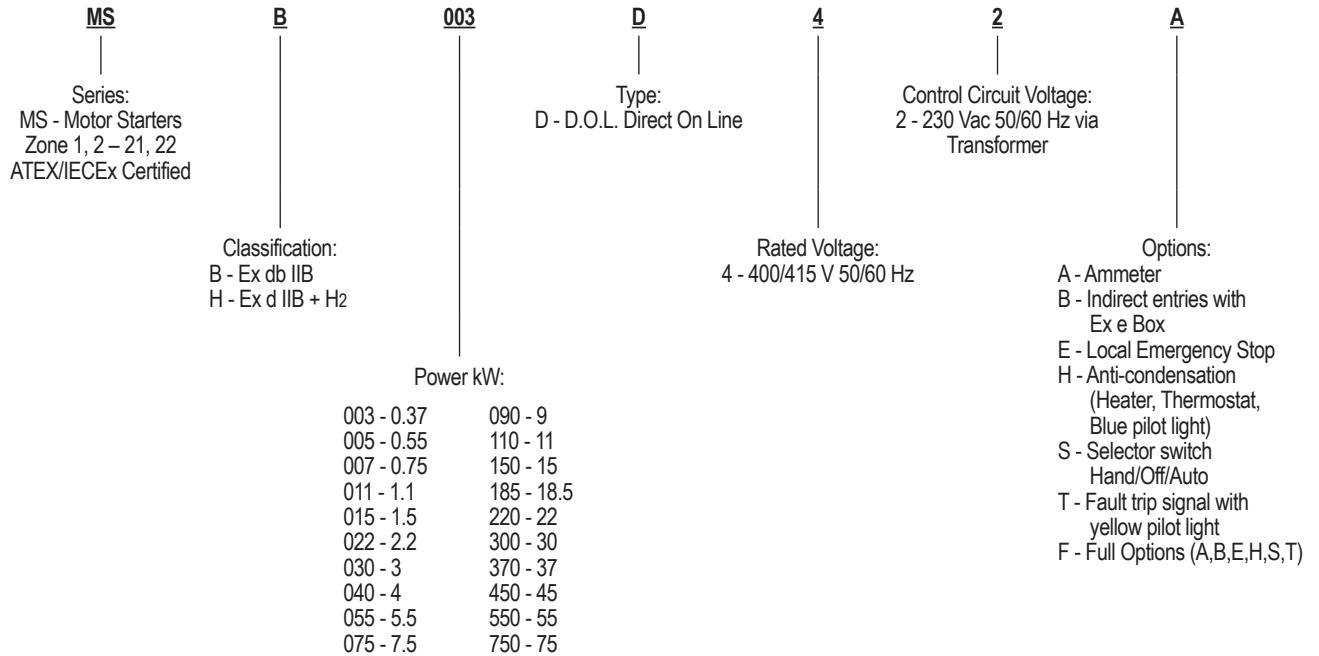
- Certification Type: Type CF
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of protection: Ex d IIB
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C (T176 °F)
- Ambient Temperature: -CF 60: -50 °C to +55 °C (-58 °F to +131 °F); CF 20, 40, 50: -40 °C to +55 °C (-40 °F to +131 °F); CF 30: -20 °C to +55 °C (-4 °F to +131 °F)
- ATEX Certificate: LCIE 02 ATEX 6057X
- IECEx Certificate: IECEx LCI 08.0023X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10

ATX™ MS Series Motor Starters

Flameproof

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide



Control Stations and Panels

ATX™ MS Series Motor Starters

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

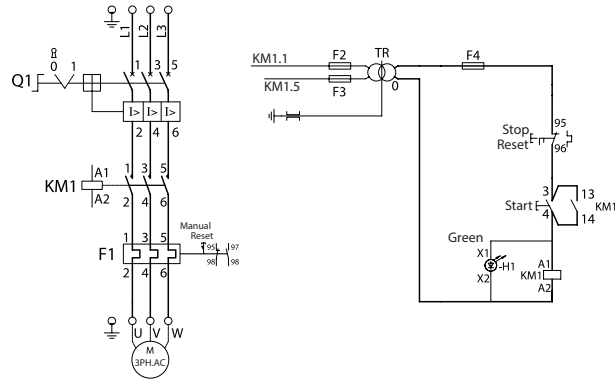
Motor Capacity AC-3 to 415 Vac	Size	Terminals Cross Section mm ² (in ²)	Cable Entries at Bottom	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Standard Version						
<i>Fitted with magnetic circuit breaker, contactor with overload relay, Start/Stop buttons and green pilot light. (1 x M20 plugged).</i>						
0.37 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB003D42
0.55 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB005D42
0.75 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB007D42
1.1 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB011D42
1.5 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB015D42
2.2 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB022D42
3 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB030D42
4 kW	1	2.5 (0.004)	2 x M20 + 1 M20	16 (35)	25 (1525.59)	MSB040D42
5.5 kW	5	4.0 (0.006)	2 x M25 + 1 M20	56 (123)	126 (7688.99)	MSB055D42
7.5 kW	5	6.0 (0.009)	2 x M25 + 1 M20	56 (123)	126 (7688.99)	MSB075D42
9 kW	5	10.0 (0.016)	2 x M25 + 1 M20	56 (123)	126 (7688.99)	MSB090D42
11 kW	5	10.0 (0.016)	2 x M25 + 1 M20	56 (123)	126 (7688.99)	MSB110D42
15 kW	5	16.0 (0.025)	2 x M32 + 1 M20	56 (123)	126 (7688.99)	MSB150D42
18.5 kW	7	25.0 (0.039)	2 x M32 + 1 M20	72 (159)	236 (14401.60)	MSB185D42
22 kW	7	25.0 (0.039)	2 x M32 + 1 M20	72 (159)	236 (14401.60)	MSB220D42
30 kW	7	35.0 (0.054)	2 x M40 + 1 M20	72 (159)	236 (14401.60)	MSB300D42
37 kW	9	50.0 (0.078)	2 x M40 + 1 M20	132 (291)	370 (22578.79)	MSB370D42
45 kW	9	70.0 (0.109)	2 x M50 + 1 M20	132 (291)	370 (22578.79)	MSB450D42
55 kW	9	95.0 (0.147)	2 x M50 + 1 M20	132 (291)	370 (22578.79)	MSB550D42
75 kW	9	120.0 (0.189)	2 x M63 + 1 M20	132 (291)	370 (22578.79)	MSB750D42
Full Options Version						
<i>Standard version + HOA selector switch, local emergency stop, fault trip signal, anti-condensation and indirect entries. (1 x M20 plugged.)</i>						
0.37 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB003D42F
0.55 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB005D42F
0.75 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB007D42F
1.1 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB011D42F
1.5 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB015D42F
2.2 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB022D42F
3 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB030D42F
4 kW	4	2.5 (0.004)	2 x M20 + 1 x M20	51 (112)	700 (42716.62)	MSB040D42F
5.5 kW	6	4.0 (0.006)	2 x M25 + 1 x M20	62 (137)	700 (42716.62)	MSB055D42F
7.5 kW	6	6.0 (0.009)	2 x M25 + 1 x M20	62 (137)	700 (42716.62)	MSB075D42F
9 kW	6	10.0 (0.016)	2 x M25 + 1 x M20	62 (137)	700 (42716.62)	MSB090D42F
11 kW	6	10.0 (0.016)	2 x M25 + 1 x M20	62 (137)	700 (42716.62)	MSB110D42F
15 kW	6	16.0 (0.025)	2 x M32 + 1 x M20	62 (137)	700 (42716.62)	MSB150D42F
18.5 kW	8	25.0 (0.039)	2 x M32 + 1 x M20	81 (179)	700 (42716.62)	MSB185D42F
22 kW	8	25.0 (0.039)	2 x M32 + 1 x M20	81 (179)	700 (42716.62)	MSB220D42F
30 kW	8	35.0 (0.054)	2 x M40 + 1 x M20	81 (179)	700 (42716.62)	MSB300D42F
37 kW	10	50.0 (0.078)	2 x M40 + 1 x M20	145 (320)	700 (42716.62)	MSB370D42F
45 kW	10	70.0 (0.109)	2 x M50 + 1 x M20	145 (320)	700 (42716.62)	MSB450D42F
55 kW	10	95.0 (0.147)	2 x M50 + 1 x M20	145 (320)	700 (42716.62)	MSB550D42F
75 kW	10	120.0 (0.189)	2 x M63 + 1 x M20	145 (320)	700 (42716.62)	MSB750D42F

ATX™ MS Series Motor Starters

Flameproof

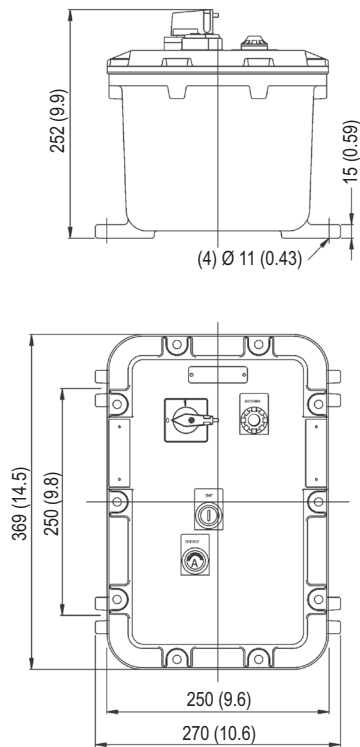
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Wiring Diagram

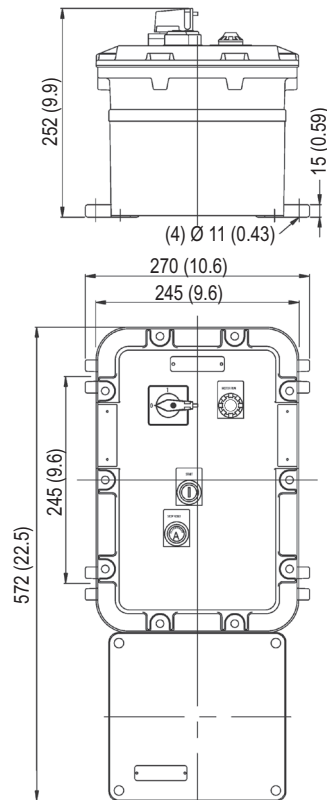


Dimensions in Millimeters (Inches)

Size 1: CF20B



Size 2: CF20B + CAe1



Control Stations and Panels

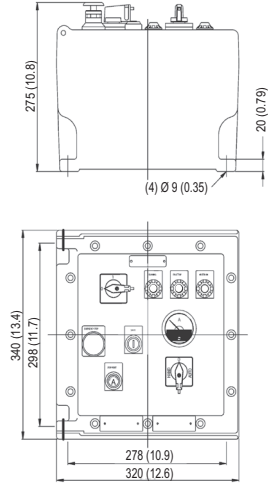
ATX™ MS Series Motor Starters

Flameproof

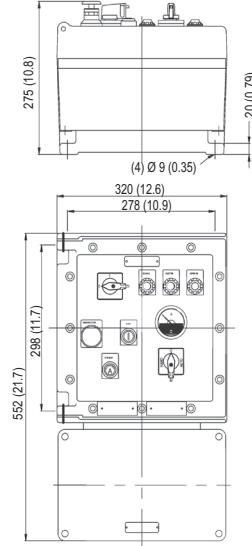
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

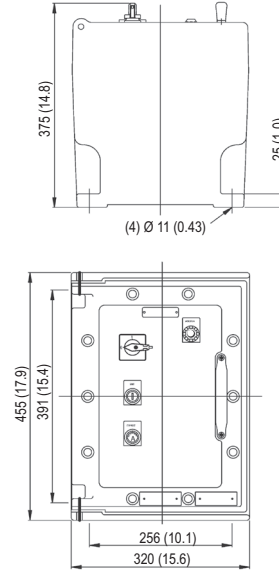
Size 3: CF30B



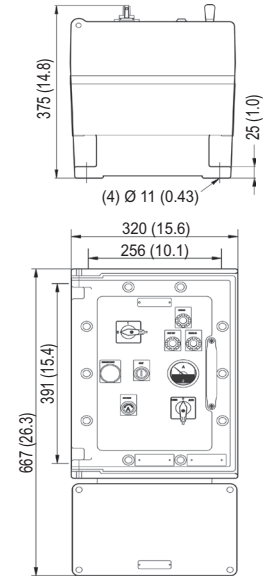
Size 4: CF30B + CAe2



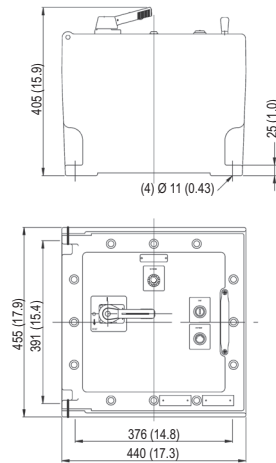
Size 5: CF40B



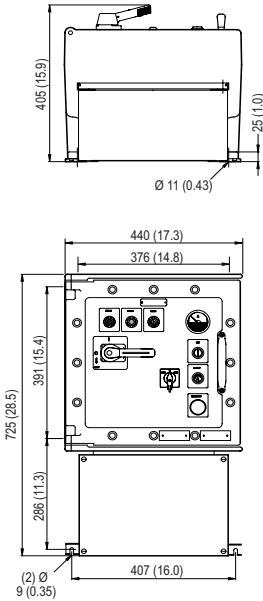
Size 6: CF40B + CAe2



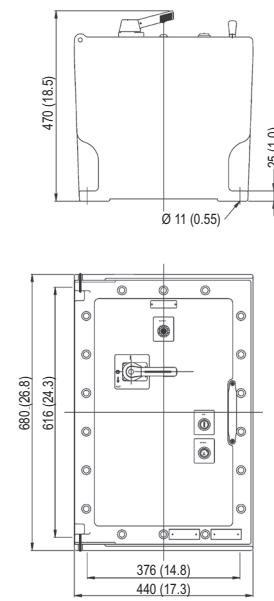
Size 7: CF50B



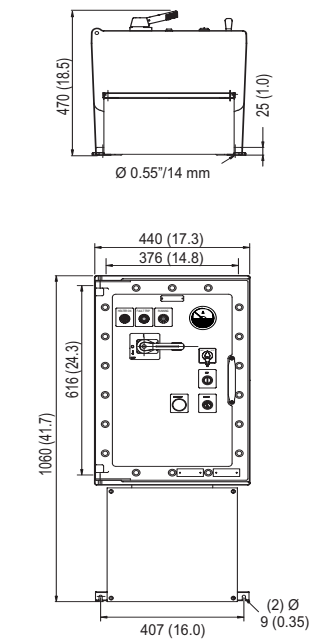
Size 8: CF50B + JBe47



Size 9: CF60B



Size 10: CF60B + JBe55



Control Stations and Panels

ATX™ FAS Series “Break Glass” Call Points

Increased Safety and Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- Located on exit routes, in particular on the floor landings of staircases and at all exits to the open air.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Type PCe (increased safety version):
 - Hammer and stainless steel chain.
 - NO+NC contacts with 2.5 mm² (0.004 in²) terminals.
 - Earth termination: 2 x 4 mm² (0.003 x 0.006 in²) – internal and external.
 - 2 x M20 bottom entries supplied with polyamide cable gland – 6.5 to 14.5 mm (0.26 to 0.57 in) diameter and polyamide blanking plug.
- Type BR1d (flameproof version):
 - Hammer and stainless steel chain.
 - NO+NC contacts with 2.5 mm² (0.004 in²) terminals.
 - Earth termination: 2 x 4 mm² (0.003 x 0.006 in²) – internal and external.
 - 2 x M20 entries (1 top and 1 bottom) supplied with one aluminum blanking plug.

Standard Materials

- Type PCe
 - Box: red painted aluminum alloy
 - Cover: red painted steel
 - Chain: stainless steel
- Type BR1d
 - Box: painted marine grade aluminum alloy (gray painted body and red painted cover)
 - Chain: stainless steel

ATEX Certifications and Compliances

- Certification Type: PCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C (T167 °F)
 - Ambient Temperature: -55 °C to +60 °C (-67 °F to +140 °F)
 - ATEX Certificate: LCIE 00 ATEX 6047
- Certification Type: BR1d
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T6 for Ta = +40 °C (+104 °F); T5 for Ta = +55 °C (+131 °F)
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCIE 02 ATEX 6056
- Impact Resistance: IK10
- Index of Protection according EN/IEC 60529: IP66



Ex de IIC Version
(PCe Type)



Ex d IIC Version
(BR1d Type)

ATX™ FAS Series “Break Glass” Call Points

Increased Safety and Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide

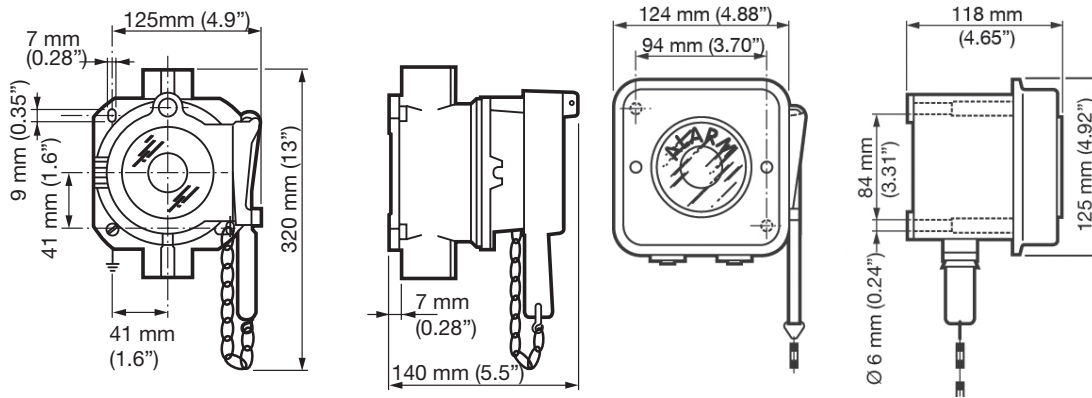
FAS
 |
 Series:
 FAS - Zones 1 et 2 – 21 et 22
 ATEX Certified

D
 |
 D - Ex d
 E - Ex e

A
 |
 A - Automatic
 M - Manual

Description	Weight kg (lb)	Volume dm ³ (in ³)	Pack	Catalog Number
Increased Safety Ex de IIC Version — Type PCe				
Coupure manuelle du circuit après avoir brisé la glace Contact 'F'+O'	1.2 (2.6)	5 (305.1)	1	FASEM
Automatic breaking of the circuit as soon as glass is broken. Momentary NO+NC contacts	1.2 (2.6)	5 (305.1)	1	FASEA
Flameproof Ex d IIC Version — Type BR1d				
Automatic breaking of the circuit as soon as glass is broken. Momentary NO+NC contacts	1.2 (2.6)	3.8 (231.9)	1	FASDA ①

Dimensions in Millimeters (Inches)



① Cable entry is M20. Old PN 093818 had M25 entry. Please double check cable entry size.

ATX™ SWE Series 16 and 20 Amp Switches

Increased Safety

SWE 16A, Type U2 and U4 | ATEX/IECEx: Zones 1 and 2 – 21 and 22
 SWE 20A | ATEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of lighting and light power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 20 Amps.
- 16 Amp version:
 - Two bottom M20 clearance holes.
 - Switch mechanism fixed at the bottom of the box.
 - Termination:
 - Type U2: 2.5 mm² (0.004 in²)
 - Type U4: 2.5 mm² (0.004 in²) flexible, 4 mm² (0.006 in²) solid
 - Internal earth:
 - 2 x 2.5 mm² (0.004 in²) terminals
 - Supplied with:
 - 1 x white self-adhesive laminated plastic label with black lettering – 58 mm x 18 mm (2.28" x 0.71")
- 20 Amp version:
 - Two M20 threaded entries on the bottom of the box.
 - Switch mechanism fixed on the bottom of the box.
 - Padlockable handle in position 0 using maximum 4 padlocks – maximum handle diameter 8 mm (0.315") and minimum 15 mm (0.59") length.
 - Termination:
 - 2.5 mm² (0.004 in²) flexible, 4 mm² (0.006 in²) solid
 - Internal earth:
 - 2 x 4 mm² (0.006 in²) terminals
 - Supplied with:
 - 1 x yellow self-adhesive laminated plastic label with black lettering – 65 mm x 18 mm (2.56" x 0.71")

Standard Materials

- 16 Amp version
 - Type U2 Box: polyester
 - Type U4 Box: polycarbonate
 - Screws: A4 stainless steel
 - Cable glands: polyamide
 - Locknuts: nickel plated brass
- 20 Amp version
 - Box: polyester
 - Screws: A4 stainless steel
 - Cable glands: polyamide

ATEX/IECEx Certifications and Compliances

- Certification Type: U2 (SWE 16A)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: INERIS 20ATEX0049X
 - IECEx Certificate: IECEx INE 20.0050X
 - Index of Protection according EN/IEC 60529: IP66



16 A - Type U2



16 A - Type U4



20 A

- Impact Resistance (shock): IK09
- Certification Type: U4 (SWE 16A)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex db eb IIC Gb
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - ATEX Certificate: INERIS 21ATEX0002X
 - IECEx Certificate: IECEx INE 21.0004X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09 (IK10 - contact sales)

ATEX Certifications and Compliances

- Certification Type: PCe (SWE 20A only)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex de IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -20 °C to +40 °C (-4 °F to +104 °F)
 - ATEX Certificate: LCIE 00 ATEX 6047
 - Index of Protection according EN/IEC 60529: IP66

UKEX Certification (SWE 16A only)

- Certification Type: U2 (SWE 16A)
 - UKEX Certificate: CML21UKEX1151X
- Certification Type: U4 (SWE 16A)
 - UKEX Certificate: CML21UKEX11411X

INMETRO Certification (SWE 16A only)

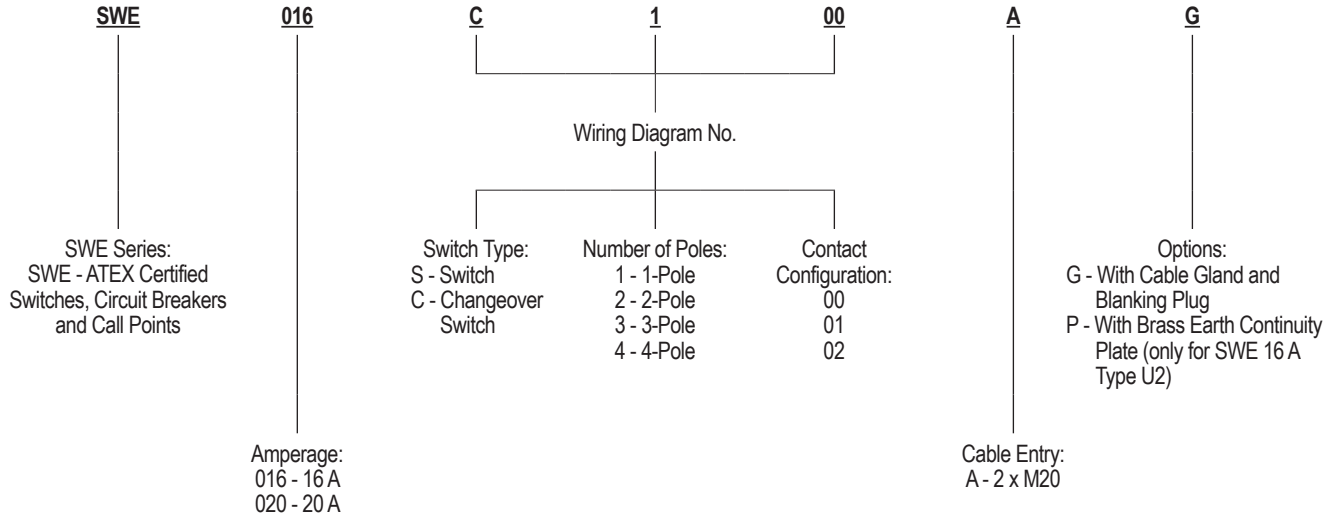
- Certification Type: U2 (SWE 16A)
 - INMETRO Certificate: BVC22.4127-X
- Certification Type: U4 (SWE 16A)
 - INMETRO Certificate: BVC22.4130-X

ATX™ SWE Series 16 and 20 Amp Switches

Increased Safety

SWE 16A, Type U2 and U4 | ATEX/IECEX: Zones 1 and 2 – 21 and 22
 SWE 20A | ATEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Type	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
16 Amp Switch — Type U2 — Padlockable handle — One M20 polyamide cable gland (cable O.D. 6.5 to 14.5 mm [0.26 to 0.57 in]) and blanking plug on bottom.					
Changeover switch (I _{max} : 11 A) ①	C101	U2	0.9 (1.98)	4 (244.10)	SWE016C101AG
2-pole (I _{max} : 11 A) ①	S201	U2	0.9 (1.98)	4 (244.10)	SWE016S201AG
Changeover switch (I _{max} : 11 A) ①	C101	U2	1 (2.20)	4 (244.10)	SWE016C101AP
2-pole (I _{max} : 11 A) ①	S201	U2	1 (2.20)	4 (244.10)	SWE016S201AP
16 Amp Twist Button - Type U4 — Non-padlockable handle — Two M20 clearance holes on the bottom					
Changeover switch (I _{max} : 14 A) ①	C100	U4	0.48 (1.06)	2.5 (152.56)	SWE016C100A
2-pole (I _{max} : 13 A) ①	S200	U4	0.48 (1.06)	2.5 (152.56)	SWE016S200A
20 Amp Switch — Padlockable handle — One M20 polyamide cable gland (cable O.D. 6.5mm to 14.5 mm) and blanking plug on bottom					
Changeover switch	C100	PCe	1 (2.20)	2 (122.05)	SWE020C100AG
2-pole	S202	PCe	1 (2.20)	2 (122.05)	SWE020S202AG
3-pole	S301	PCe	1 (2.20)	2 (122.05)	SWE020S301AG
4-pole	S401	PCe	1 (2.20)	2 (122.05)	SWE020S401AG

① Other options are available upon request. Contact a local sales representative for more information.

ATX™ SWE Series 16 and 20 Amp Switches

Increased Safety

SWE 16A, Type U2 and U4 | ATEX/IECEx: Zones 1 and 2 – 21 and 22
 SWE 20A | ATEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Main Contacts	16 Amps Type U2	16 Amps Type U4	20 Amps
Rated Insulation Voltage	750 V	500 V	500 V
Rated Operating Voltage	690 Vac/110 Vdc	500 V	500 V
Rated Operating Current	16 Amp	16 Amp	20 Amp
Switching Capacity			
AC 1	16 Amp, 690 V	—	—
AC 12	—	16 Amp, 400 V	—
AC 14	—	10 Amp, 400 V	—
AC 15	16 Amp, 415 V	6 Amp, 500 V	—
AC 21	—	—	16 Amp, 500 V
AC 23	—	—	16A mp, 400 V
AC 3	08 Amp, 500 V	—	—
AC 3	04 Amp, 690 V	—	—
DC 1	10 Amp, 24 V	—	—
DC 1	06 Amp, 60 V	—	—
DC 1	06 Amp, 110 V ①	—	—
DC 13	—	1 Amp, 110 V	—
DC 13	—	2 Amp, 24 V	—
Termination (flexible/solid)	2.5 mm ² /4 mm ² (0.004 in ² /0.006 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² /4 mm ² (0.004 in ² /0.006 in ²)

Switching Arrangement X Denotes "Closed Contact"

16 Amp Switch | C101

Positions	Contacts	
	11-12	23-24
0	X	
1		X

16 Amp Switch | S201

Positions	Contacts	
	13-14	23-24
0		
1	X	X

16 Amp Twist Button | C100

Positions	Contacts	
	1-2	3-4
0	X	
1		X

16 Amp Twist Button | S200

Positions	Contacts	
	3-4	3-4
0		
1	X	X

20 Amp Switch | C100

Positions	Contacts	
	1-2	3-4
0	X	
1		X

20 Amp Switch | S202

Positions	Contacts	
	1-2	3-4
0		
1	X	X

20 Amp Switch | S301

Positions	Contacts		
	1-2	3-4	5-6
0			
1	X	X	X

20 Amp Switch | S401

Positions	Contacts			
	1-2	3-4	5-6	7-8
0				
1	X	X	X	X

① 2 contacts connected in series.

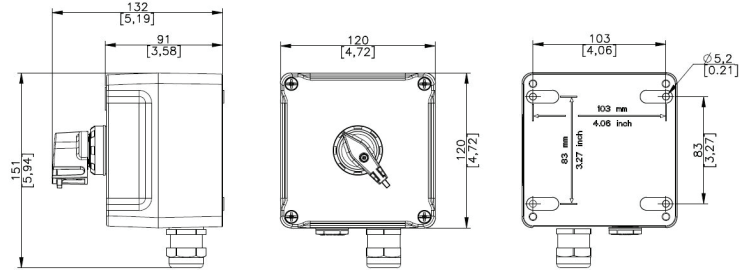
ATX™ SWE Series 16 and 20 Amp Switches

Increased Safety

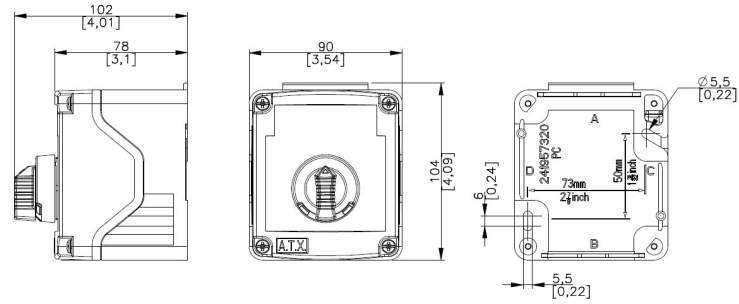
SWE 16A, Type U2 and U4 | ATEX/IECEx: Zones 1 and 2 – 21 and 22
 SWE 20A | ATEX: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

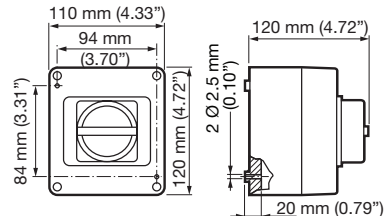
16 Amp Version | Type U2



16 Amp Version | Type U4



20 Amp Version



ATX™ SWD Series 16 and 32 Amp Switches

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of lighting and light power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

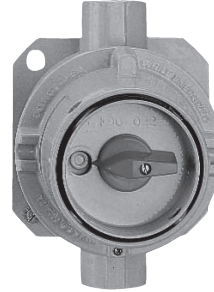
- Available up to 690 Volts, and up to 32 Amps.
- Two threaded entries (one top and one bottom) M20 or M25.
- Switch mechanism fixed at the bottom of the box.
- Padlockable handle.
- Termination:
 - 16 Amp 4 mm² terminals
 - 32 Amp 6 mm² terminals
- Internal earth:
 - 2 x 4 mm² terminals
- External earth:
 - M5 for 16 Amps
 - M6 for 32 Amps

Standard Materials

- Gray painted marine grade aluminum alloy box
- A4 stainless steel captive screws

ATEX Certifications and Compliances

- 16 Amp Version. Certification Type: BR1d (16A)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta = +40 °C, T5 for Ta = +55 °C
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - ATEX Certificate: LCIE 02 ATEX 6056
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- 32 Amp Version. Certification Type: CF1E (32A)
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature class: T6 for Ta ≤ +40 °C, T5 for +40 °C < Ta ≤ +55 °C
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C
 - Ambient Temperature: -40 °C to +55 °C
 - ATEX Certificate: LCIE 03 ATEX 6044X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10



16 Amp Version



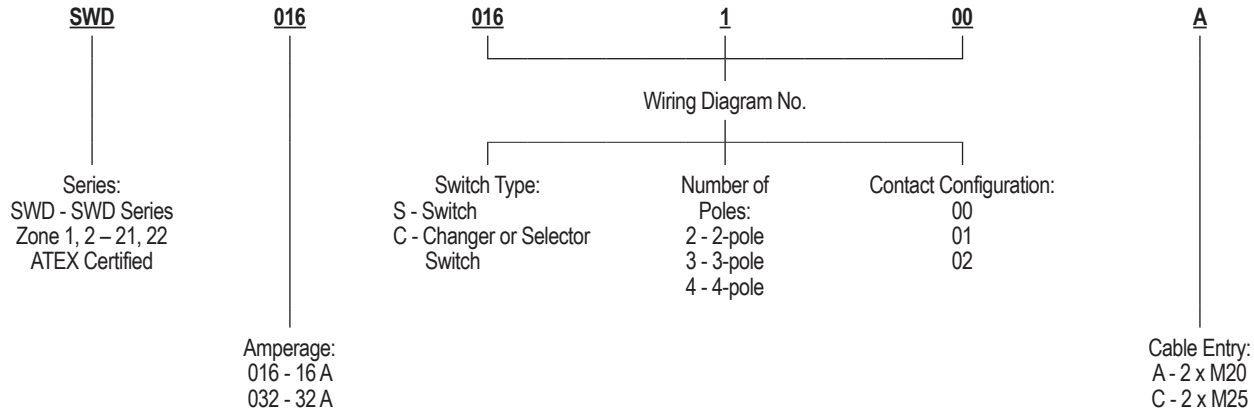
32 Amp Version

ATX™ SWD Series 16 and 32 Amp Switches

Flameproof

ATEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide



Switch Type	Wiring Diagram No.	Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
16 Amp Switch					
1-pole changeover	C100	2 x M20	1.1 (2.43)	3.8 (231.89)	SWD016C100A
		2 x M25			SWD016C100C
2-pole switch	S200	2 x M20	1.1 (2.43)	3.8 (231.89)	SWD016S200A
		2 x M25			SWD016S200C
3-pole switch	S300	2 x M20	1.1 (2.43)	3.8 (231.89)	SWD016S300A
		2 x M25			SWD016S300C
4-pole switch	S400	2 x M20	1.1 (2.43)	3.8 (231.89)	SWD016S400A
		2 x M25			SWD016S400C
32 Amp Switch					
2-pole switch	S200	2 x M20	2.7 (5.95)	8.0 (488.19)	SWD032S200A
		2 x M25			SWD032S200C
3-pole switch	S300	2 x M20	2.7 (5.95)	8.0 (488.19)	SWD032S300A
		2 x M25			SWD032S300C
4-pole switch	S400	2 x M20	2.7 (5.95)	8.0 (488.19)	SWD032S400A
		2 x M25			SWD032S400C

Switching Arrangement — X Denotes "Closed Contact"

C100			C200			S300				S400				
Positions	Contacts		Positions	Contacts		Positions	Contacts			Positions	Contacts			
	1-2	3-4		1-2	3-4		1-2	3-4	5-6		1-2	3-4	5-6	7-8
0	X		0			0				0				
1		X	1	X	X	1	X	X	X	1	X	X	X	X

ATX™ SWD Series 16 and 32 Amp Switches

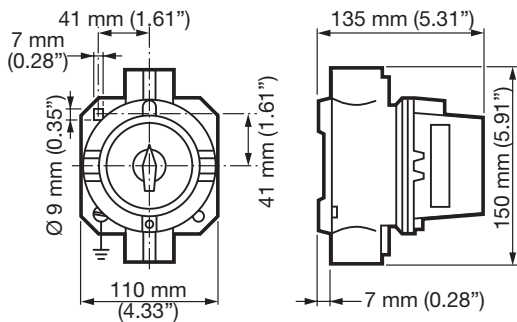
Flameproof

ATEX: Zones 1 and 2 – 21 and 22

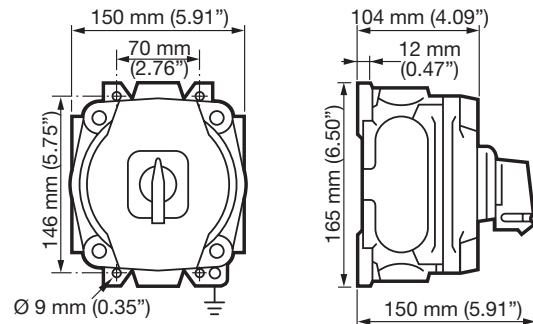
Main Contacts		16 Amps	32 Amps
Rated insulation voltage (Ui)		690 V	690 V
Thermal rating		20 A	40 A
AC 21 A		16 A	32 A
AC 15		6 A	12 A
AC 23 A	3 x 230 V	4 KW	11 KW
	3 x 400 V	7.5 KW	11 KW
	3 x 500 V	5.5 KW	11 KW
	3 x 690 V	4 KW	11 KW
AC 3 A	3 x 230 V	3 KW	5.5 KW
	3 x 400 V	4 KW	11 KW
	3 x 500 V	5.5 KW	11 KW
	3 x 690 V	3 KW	11 KW
Flexible Termination		2.5 mm ² (0.004 in ²)	6 mm ² (0.009 in ²)
Solid Termination		4 mm ² (0.006 in ²)	6 mm ² (0.009 in ²)

Dimensions in Millimeters (Inches)

16 Amp Version



32 Amp Version



ATX™ SWD Series 20 to 250 Amp Isolator Switches

Flameproof

Type CF2D | ATEX: Zones 1 and 2 – 21 and 22
Type CF2 | ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

- Designed to prevent operation in explosive atmospheres during connect and disconnect operation of power loads.
- For use in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in chemical and petrochemical plants, refineries and other process industries.

Features

- Available up to 690 Volts, and up to 250 Amps.
- Padlockable handle in position “O”.
- 3 or 4-pole switch mechanism.
- “NO-NC” early break auxiliary contact.
- Main contact termination: Up to 85 mm² (0.2868 in²).
- Auxiliary contact termination: 2.5 mm² (0.004 in²).
- Threaded cable entries: two at bottom and one at top – M20 to M63.
- Supplied with:
 - 1 x M20 blanking plug
 - 1 x M8 earth stud

Standard Materials

- Box: marine grade aluminum alloy
- Captive screws: A4 stainless steel

Standard Finishes

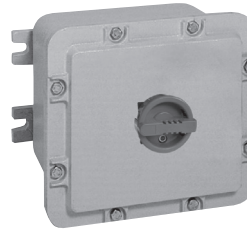
- Box: gray paint

Options

- Visible break assembly including a window to view power connection (only for 100 A to 160 A versions).

ATEX Certifications and Compliances

- Certification Type: CF2D
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T6 for Ta ≤ +40 °C (+104 °F); T5 for +40 °C (+104 °F) < Ta ≤ +55 °C (+131 °F)
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F)
 - ATEX Certificate: LCLCIE 02 ATEX 6061X
- Certification Type: CF2
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of protection: Ex d IIB
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C (T176 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131 °F); CF10B is -20 °C to +55 °C (-4 °F to +131 °F)
 - ATEX Certificate: LCIE 02 ATEX 6057X
 - IECEx Certificate: 08 0023X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10



63 Amp Version



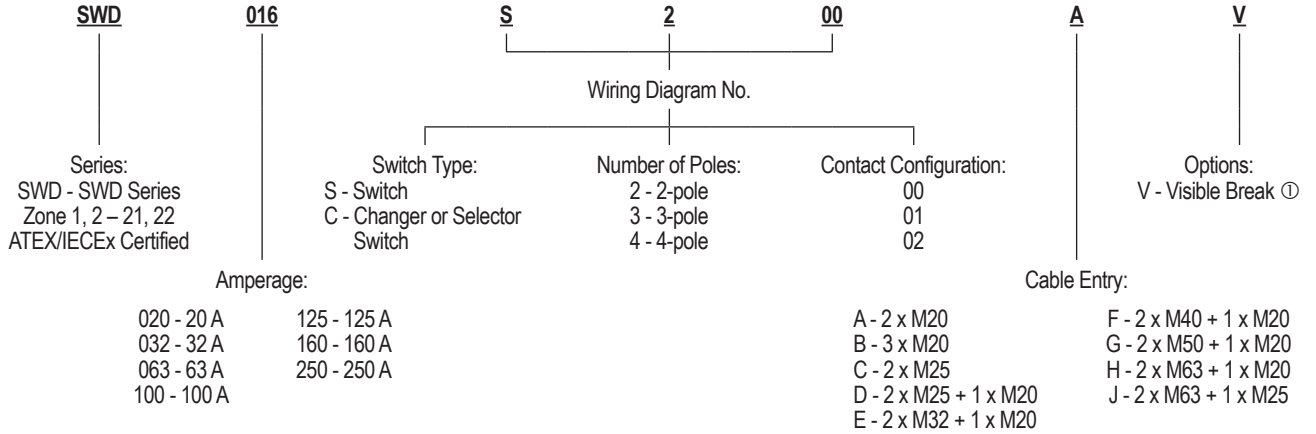
63 Amp Version
Visible Break Assembly

ATX™ SWD Series 20 to 250 Amp Isolator Switches

Flameproof

Type CF2D | ATEX: Zones 1 and 2 – 21 and 22
 Type CF2 | ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide



Switching Arrangement — X Denotes "Closed Contact"

S300

Positions	Contacts		
	1-2	3-4	5-6
0			
1	X	X	X

S400

Positions	Contacts			
	1-2	3-4	5-6	7-8
0				
1	X	X	X	X

⊕ For 100, 125 and 160 Amp versions only.

ATX™ SWD Series 20 to 250 Amp Isolator Switches

Flameproof

Type CF2D | ATEX: Zones 1 and 2 – 21 and 22
 Type CF2 | ATEX/IECEx: Zones 1 and 2 – 21 and 22

Switch Type	Wiring Diagram No.	Certified Type	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
20 A – 3 x M20 threaded entries (1 Top and 2 Bottom)					
3-pole switch	S300	CF2D	3.8 (0.15)	11 (671.3)	SWD020S300B
4-pole switch	S400	CF2D	3.8 (0.15)	11 (671.3)	SWD020S400B
32 A – Bottom entries: 1 x M25 + 1 x M20 – Top entries: 1 x M25					
3-pole switch	S300	CF2D	3.8 (8.377)	11 (671.3)	SWD032S300D
3-pole switch + visible break	S400	CF20B	15 (33.07)	24.5 (1495.1)	SWD032S300DV
4-pole switch	S300	CF10B	11 (24.25)	19.6 (1196.1)	SWD032S400D
4-pole switch + visible break	S400	CF20B	15 (33.07)	24.5 (1495.1)	SWD032S400DV
63 A – Bottom entrie: 1 x M32 + 1 x M20 – Top entries: 1 x M32					
3-pole switch	S300	CF10B	11 (24.25)	19.6 (1196.1)	SWD063S300E
3-pole switch + visible break	S400	CF20B	15 (33.07)	24.5 (1495.1)	SWD063S300EV
4-pole switch	S300	CF10B	11 (24.25)	19.6 (1196.1)	SWD063S400E
4-pole switch + visible break	S400	CF20B	15 (33.07)	24.5 (1495.1)	SWD063S400EV
100 A – Bottom entries: 1 x M40 + 1 x M20 – Top entries: 1 x M40					
3-pole switch	S300	CF20B	13 (0.51)	24.5 (1495.1)	SWD100S300F
4-pole switch	S400	CF20B	13 (0.51)	24.5 (1495.1)	SWD100S400F
125 A – Bottom entries: 1 x M50 + 1 x M20 – Top entries: 1 x M50					
3-pole switch	S300	CF20B	13 (28.66)	24.5 (1495.1)	SWD125S300G
3-pole switch + visible break	S400	CF40B	52 (114.64)	235.2 (14352.8)	SWD125S300GV
4-pole switch	S300	CF20B	13 (28.66)	24.5 (1495.1)	SWD125S400G
4-pole switch + visible break	S400	CF40B	52 (114.64)	235.2 (14352.8)	SWD125S400GV
160 A – Bottom entries: 1 x M50 + 1 x M20 – Top entries: 1 x M50					
3-pole switch	S300	CF40B	50.5 (110.23)	235.2 (14352.8)	SWD160S300G
3-pole switch + visible break	S400	CF40B	52 (114.64)	235.2 (14352.8)	SWD160S300GV
4-pole switch	S300	CF40B	50.5 (110.23)	235.2 (14352.8)	SWD160S400G
4-pole switch + visible break	S400	CF40B	52 (114.64)	235.2 (14352.8)	SWD160S400GV
250 A – Bottom entries: 1 x M63 + 1 x M20 – Top entries: 1 x M63					
3-pole switch	S300	CF60B	112 (4.41)	646.6 (39458.0)	SWD250S300H
4-pole switch	S400	CF60B	112 (4.41)	646.6 (39458.0)	SWD250S400H

Control Stations and Panels

ATX™ SWD Series 20 to 250 Amp Isolator Switches

Flameproof

Type CF2D | ATEX: Zones 1 and 2 – 21 and 22
 Type CF2 | ATEX/IECEx: Zones 1 and 2 – 21 and 22

Technical Data								
Main Contacts	20 Amps	32 Amps	63 Amps	100 Amps	125 Amps	160 Amps	250 Amps	
Rated Insulation Voltage (Ui)	800 V	800 V	800 V	800 V	800 V	800 V	800 V	
Rated Operating Voltage (Ue)	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	415 V/500 V/ 690 V	
Rated Operating Current (Ie)	25 A	32 A/32 A/ 25 A	63 A/63 A/ 40 A	100 A	125 A	160 A/160 A/ 125 A	250 A/250 A/ 200 A	
Rated Surge Voltage (Uimp)	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	8 kV	
Short Circuit Resistance	50 kA (with fuse)	50 kA (with fuse)	50 kA (with fuse)	100 kA (with fuse)	63 kA (with fuse)	80 kA (with fuse)	50 kA (with fuse)	
Switching Capacity								
AC 21 A	415 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	500 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	690 V	25 A	32 A	63 A	100 A	125 A	160 A	200 A
AC 22 A	415 V	25 A	32 A	63 A	100 A	125 A	160 A	250 A
	500 V	25 A	32 A	63 A	100 A	125 A	125 A	250 A
	690 V	25 A	32 A	63 A	63 A	80 A	100 A	125 A
AC 23 A	230 V	25 A	–	–	–	–	–	–
	415 V	25 A	32 A	63 A	100 A	125 A	125 A	250 A
	500 V	25 A	25 A	63 A	80 A	100 A	100 A	200 A
	690 V	25 A	25 A	40 A	63 A	80 A	80 A	100 A
AC 23 A Motor Power (kW)	230 V	–	–	–	–	–	–	–
	415 V	11 kW	15 kW	30 kW	45 kW	55 kW	75 kW	132 kW
	500 V	11 kW	15 kW	30 kW	45 kW	55 kW	75 kW	140 kW
	690 V	15 kW	18.5 kW	30 kW	45 kW	75 kW	75 kW	90 kW
DC 21	24/48 V, 25 A ①	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	800 V, 125 A ①	800 V, 125 A ①	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
DC 22	–	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	–	–	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
DC 23	–	–	–	–	–	–	–	220 V, 250 A ①
	–	–	–	–	–	–	–	440 V, 200 A ①
	–	–	–	–	–	–	–	500 V, 200 A ①
Flexible Termination	0.75 to 6 mm ² (0.001 to 0.009 in ²)	16 mm ² (0.025 in ²)	4 to 35 mm ² (0.006 to 0.054 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	95 mm ² (0.147 in ²)
Solid Termination	10 mm ² (0.016 in ²)	16 mm ² (0.025 in ²)	50 mm ² (0.076 in ²)	70 mm ² (0.109 in ²)	70 mm ² (0.109 in ²)	70 mm ² (0.109 in ²)	70 mm ² (0.109 in ²)	150 mm ² (0.233 in ²)
Auxiliary Contacts								
Rated Operating Voltage (Ue)	230 V/400 V	250 V	250 V	250 V	250 V	250 V	230 V/400 V	
Rated Operating Current (Ie)	6 A/4 A	5 A	5 A	5 A	5 A	5 A	4 A/3 A	
Switching Capacity								
AC 15	6 A/230 V	5 A/250 V	5 A/250 V	5 A/250 V	5 A/250 V	5 A/250 V	4 A/230 V - 3 A/400 V	
DC 14	–	–	–	–	–	–	1 A/24 V - 0.2 A/48 V	
Flexible Termination	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	2.5 mm ² (0.004 in ²)	

① Two contacts connected in series.

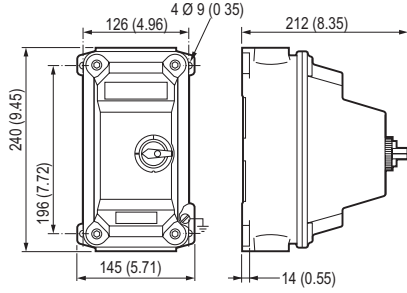
ATX™ SWD Series 20 to 250 Amp Isolator Switches

Flameproof

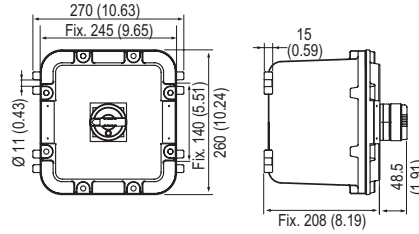
Type CF2D | ATEX: Zones 1 and 2 – 21 and 22
 Type CF2 | ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches)

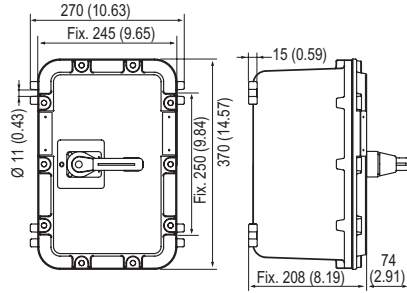
CF2D



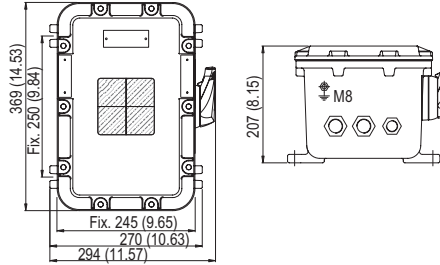
CF10B



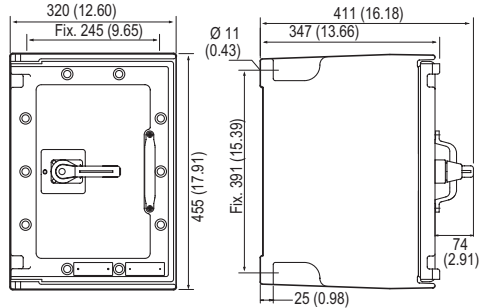
CF20B



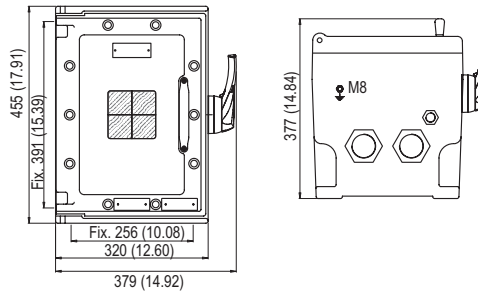
CF20B version à coupure visible



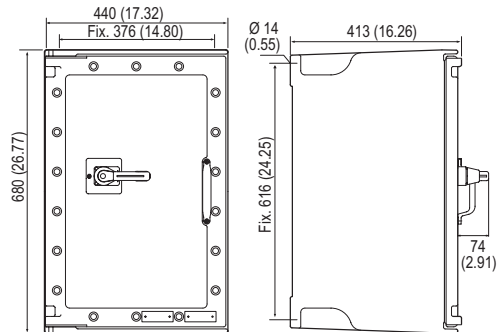
CF40B



CF40B version à coupure visible



CF60B



Distribution Equipment | Pictorial Index

Page	Description	NEC	CEC	ATEX	IECEX
E2	ATX™ CBD Series Circuit Breakers			•	
E5	IEC PlexPower™ Factory Sealed Panelboard			•	•
E47	AGPPX/ASPPX Series PlexPower™ Distribution Panelboard			•	•
E57	PlexPower™ IEC Fiber Panelboard			•	•
E61	ATX™ DPD Series Distribution Panelboards			•	•
E67	Custom Switchracks: Built to Comply with ATEX/IEC Standards and Certifications			•	•



CBD



PlexPower Panelboard



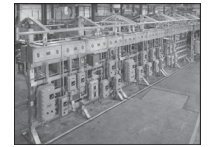
AGPPX/ASPPX



PlexPower Fiber Panelboard



DPD



Switchracks

ATX™ CBD Series Circuit Breakers

Flameproof

ATEX: Zones 1 and 2

Applications

- Circuit breakers are used in areas where hazardous materials are handled or stored.
- These units provide thermal-magnetic protection and residual current devices.

Features

- Supplied with front rotary control switch handle.
- Padlockable in stop position — 3 x dia. 5 mm (0.20 in).
- RCBOs supplied with test push button.
- Yellow laminated plastic legend plate with black lettering.
- Internal earth terminal 2 x 4 mm² (0.003 x 0.006 in²).
- External ground terminal: M5 for Ex d IIB version.
- Earth crossing terminal M8 for Ex d IIC version.
- 1 x M20 entry on top.
- 2 x M20 entries at bottom with one blanking plug.
- Cable glands to be ordered separately.

Standard Materials

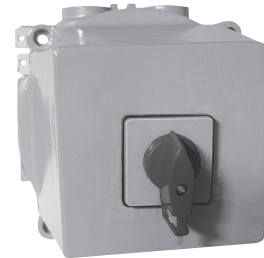
- Gray painted marine grade aluminum alloy housing (RAL7038).
- Stainless steel cover bolts.

ATEX Certifications and Compliances

- Certification Type: CF2D
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T3
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T195 °C (T383 °F)
 - Ambient Temperature: -5 °C (+23 °F) / -20 °C (-4 °F) / -25 °C (-13 °F) to +55 °C (+131 °F) (according components)
 - ATEX Certificate: LCIE 02 ATEX 6061X
- Certification Type: CF1C
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T5
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II2 D
 - Type of Protection: Ex td A21
 - Surface Temperature: T95 °C (T203 °F)
 - Ambient Temperature: -5 °C (23 °F) / -20 °C (-4 °F) / -25 °C (-13 °F) to +55 °C (131 °F) (according components)
 - ATEX Certificate: LCIE 03 ATEX 6044X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK10



Ex d IIB Version



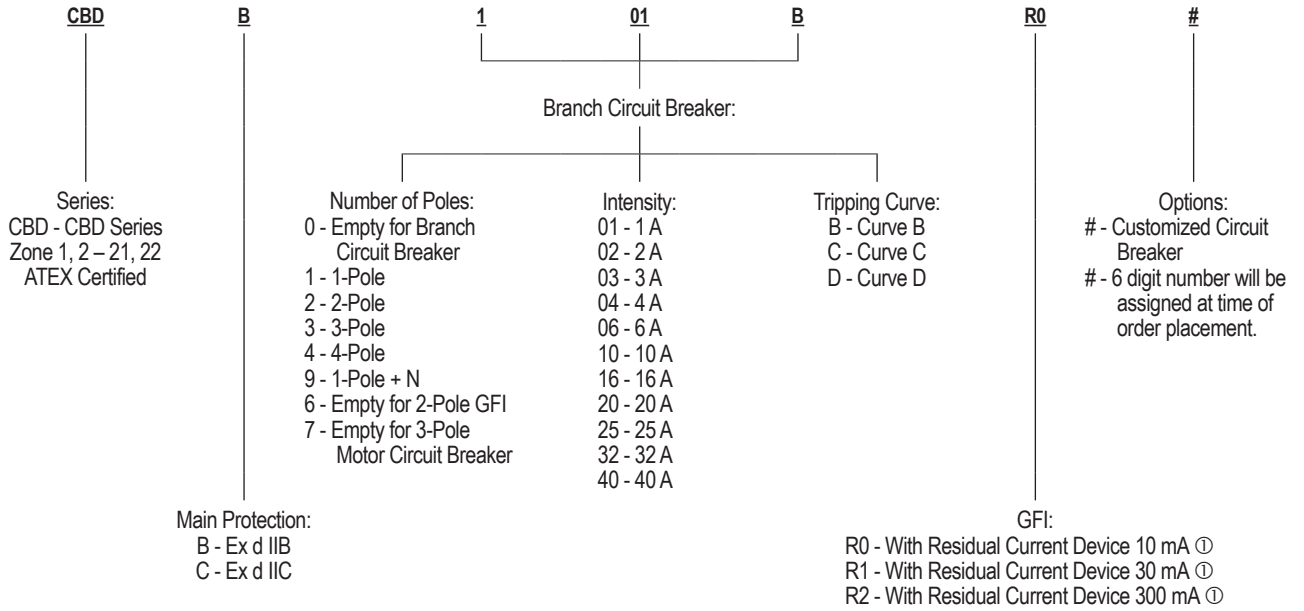
Ex d IIC Version

ATX™ CBD Series Circuit Breakers

Flameproof

ATEX: Zones 1 and 2

Catalog Numbering Guide



① For Branch Circuit Breaker 2-Poles maximum.

ATX™ CBD Series Circuit Breakers

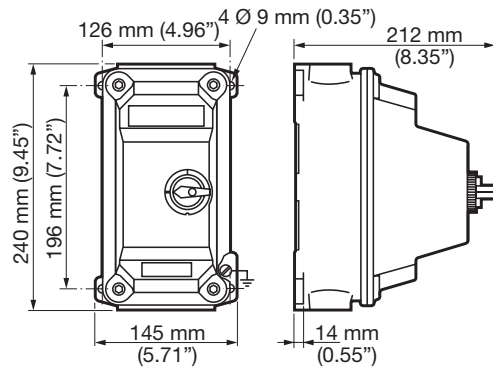
Flameproof

ATEX: Zones 1 and 2

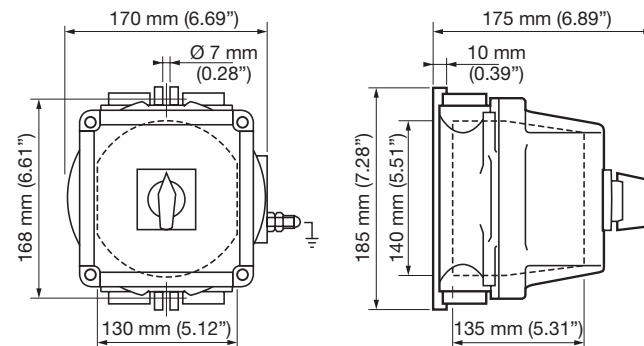
Type	Description	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Enclosure for Housing Branch Circuit Breaker up to 40 A — Ex d IIB T3				
CF2D	40 A maximum 2-pole, 3-pole and 4-pole Branch Circuit Breaker (DX from Legrand — not supplied) Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)	4 (8.82)	14 (854.3)	CBDB0
CF2D	25 A maximum 2-pole, GFI Branch Circuit Breaker (iC60 + VIGI iC60 from Schneider Electric — not supplied) Ambient Temperature: -25 °C / -5 °C à +55 °C (-13 °F / +23 °F à +131 °F)	4 (8.82)	14 (854.3)	CBDB6
CF2D	32 A maximum 3-pole Motor Circuit Breaker (GV2-P or GV2-L from Schneider Electric — not supplied) Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)	4 (8.82)	14 (854.3)	CBDB7
Enclosure for Housing MCB up to 32 A — Ex d IIC T3				
CF1C	40 A maximum 2-pole, 3-pole and 4-pole Branch Circuit Breaker (DX from Legrand — not supplied) Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)	4 (8.82)	14 (854.3)	CBDC0
CF1C	40 A maximum 2-pole, GFI Branch Circuit Breaker (iC60 from Schneider Electric — not supplied) Ambient Temperature: -25 °C / -5 °C à +55 °C (-13 °F / +23 °F à +131 °F)	4 (8.82)	14 (854.3)	CBDC6
CF1C	32 A maximum 3-pole Motor Circuit Breaker (GV2-P or GV2-L from Schneider Electric — not supplied) Ambient Temperature: -25 °C to +55 °C (-13 °F to +131 °F)	4 (8.82)	14 (854.3)	CBDC7

Dimensions in Millimeters (Inches)

Ex d IIB Version



Ex d IIC Version



① Options: enclosure fitted with GFI Branch Circuit Breaker available as per catalog number logic.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- The IEC PlexPower™ factory sealed panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
 - Petroleum plants
 - Chemical plants
 - Refineries
 - Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on lighting, heat trace and power circuits.

Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- Limitless flexibility through horizontal and vertical coupling options.
- The PlexPower™ factory sealed panelboard features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Supplied as standard:
 - Bottom entries with brass earth plate
 - Pre-drilled supplied with non Ex certified temporary plastic plugs
 - Standard hard wired, copper cables
 - Color coded wiring for phases; neutral (blue) and ground (yellow/green)
 - Internal actuators
 - Internal wiring duct
 - Phenolic nameplate (specify legend)
- Optional gland plate at the bottom of enclosure can be easily field punched or drilled for cable or conduit entries. See options.
- 1 circuit to 72 circuit panelboard configurations are standard, with or without main breaker.
- Schneider ■ breakers are supplied as standard, making replacements readily available.
- PlexPower™ breakers accommodate ABB ☼ breakers. For a custom panelboard designed with ABB breakers, contact your local sales representative.
- Branch circuit breakers available in 1-, 2- 3- and 4-pole. Current ratings on branch breakers:
 - 1-pole: 120, 240 Volts, 63 Amps maximum.
 - 2-, 3- and 4-pole: 240 and 415 Volts, 63 Amps maximum.
- Branch breakers are labeled with numbers:
 - Odd numbers for line side
 - Even numbers for load side.
 - Labeled with inside breaker details
- Main circuit breaker:
 - 40 to 250 Amps, 2-, 3- or 4-pole.
- Branch and main breakers can be padlocked in either the “On” or “Off” position.
- Breaker modules supplied with captive bolts.
- Ground bar provided as standard.
- External ground lug provided as standard.
- 240/415 Volt breaker module 8-pole terminal wire range 2.5 mm² through 10 mm² (standard), 16 mm² with special lug.



Stainless Steel

Fiberglass Reinforced Polyester

- 600 Volt main breaker module 4-pole terminal wire range 16 mm² through 150 mm².
- Ambient temperature ratings:
 - Standard model: -20 °C/-40 °C to +55 °C (-29 °F/-40 °F to +133 °F)
 - Standard model without switching: -40 °C (-40 °F)

Standard Materials

- Enclosure: fiberglass reinforced polyester (FRP) or stainless steel
- Hardware: stainless steel
- Bus bar: hard drawn copper
- Chassis: hot dip galvanized for wall mounting use

Options

- A wide range of components can be included, contact your local sales representative for additional information:
 - Voltmeter
 - Ammeter
 - Contacts and pilot lights
 - 16 Amp Switches
 - FU40 Series fuse holders
 - Heater
 - Thermostat
 - TRE Series Transformer
 - Terminal blocks
- Ex of IIC Certification available, contact your local sales representative for a quote
- Alternate frame (structure) available for floor mounting or self standing with and without canopy. Contact your local sales representative for additional information.

■ Schneider is a registered trademark of Schneider Electric.

☼ ABB Asea Brown Boveri Ltd is registered with the commercial register of Zurich, Switzerland.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

ATEX/IECEx Certifications and Compliances

- Certification Type: PXP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II2G
 - Equipment Protection Level: EPL Gb
 - Type of Protection: Ex db eb IIB + H2 or IIC Gb;
Ex db eb mb IIB + H2 or IIC Gb (if distribution panel is equipped with voltmeter)
 - Temperature Class: T3 to T5 depending on layout and ambient temperature
 - Dusts, Zones 21 and 22:
 - Conforming to ATEX 2014/34/EU: Ⓢ II2D
 - Equipment Protection Level: EPL Db
 - Type of Protection: Ex tb IIIC
 - Surface Temperature: +50 °C to +140 °C (+122 °F to +284 °F) depending on layout and ambient temperature
 - Ambient Temperatures ①: -20 °C (-4 °F) ≤ Tamb. ≤ +55 °C (+131 °F). For -40 °C (-40 °F) ambient temperature, contact the factory
- ATEX Certificate: LCIE 20 ATEX 3005 X
- IECEx Certificate: IECEx LCIE 20.0004X
- Index of Protection according EN/IEC 60529: IP66

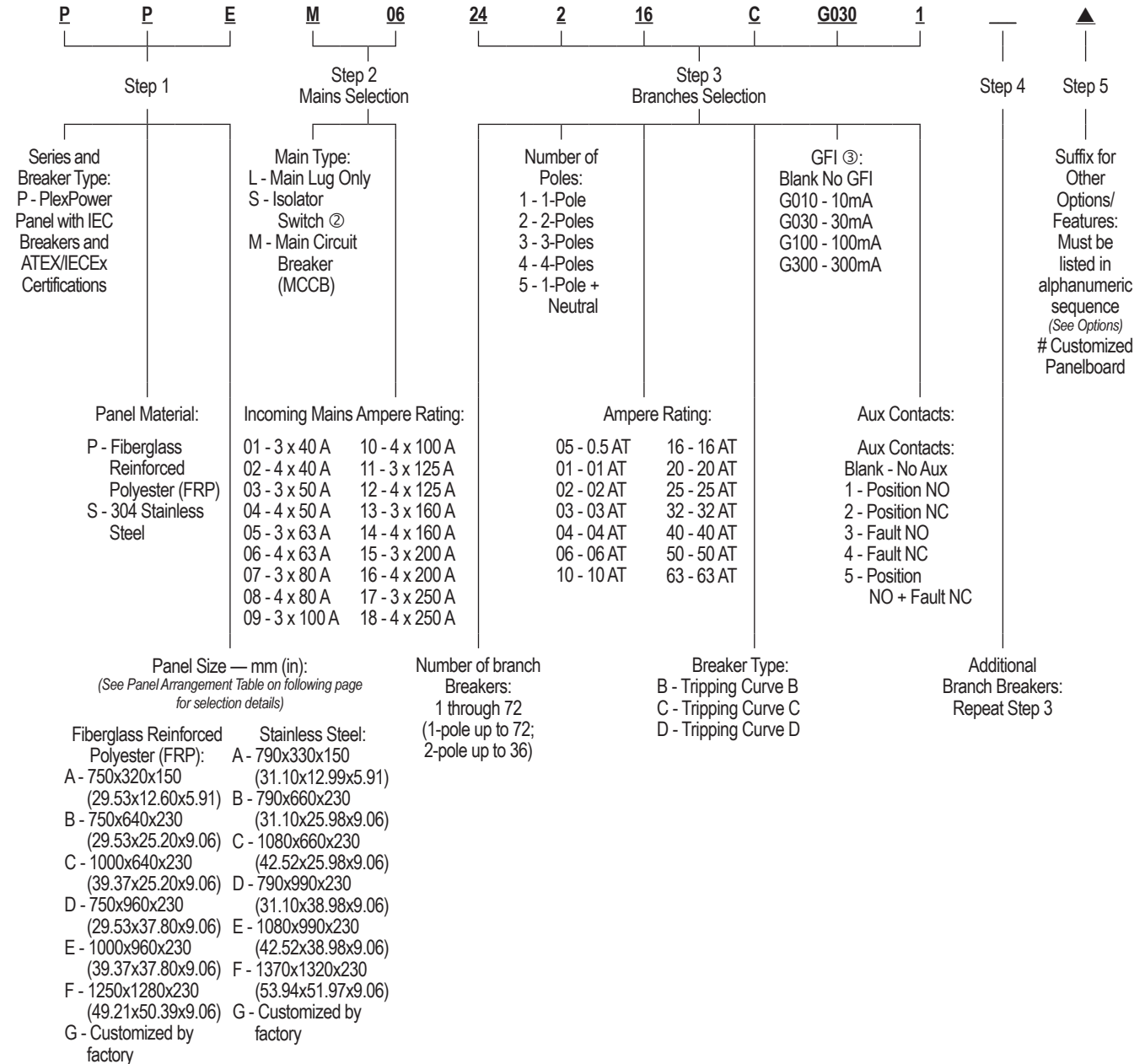
① The minimum ambient temperature depends on the minimum operating temperature of the integrated components..

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide ①



① Please use step by step catalog number on next page.

② Isolators are molded case Switches (MCS).

③ For detailed information see table "Vigi iC60 Add-On Residual Current Devices (RCD or GFI)" on following pages.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Steps to Creating Catalog Number:

To create a complete catalog number, refer to the Catalog Numbering Guide on previous page. Product selection information is available within the Guide.

P	P	E	M	06	12	2	16	C	G030	1	▲	—
Step 1			Step 2		Step 3					Step 4		Step 5

Step 1: Series is P

Material is P or S

Choose panel arrangement (A, B, C, D, E or F; see drawing at the end of the section for number of circuits).

Step 2: Choose either main lug (L), isolator switch (S) or main circuit breaker (M)

Choose the ampere rating of incoming mains (3 or 4 poles plus ampere: 40, 50, 63, 80, 100, 125, 160, 200, 250)

If a main breaker is desired indicate amperage rating; Example: PPEM06 – 4-pole 63 Amp main breaker.

Step 3: Choose the number of branch breakers

Choose the number of poles

Choose the ampere rating

Choose the breaker type

Choose OPTIONAL GFI

Choose OPTIONAL auxiliary contacts

First digit is the number of branch breakers, second digit is the number of poles, third number is the ampere rating, fourth number is the breaker type and the fifth and six are optional GFI and/or auxiliary contacts; Example: 12216CG0301 is a 2-pole 16 Amp breaker 30 mA GFI with one auxiliary position contact with tripping curve C.

Step 4: Repeat Step 3 for as many breaker types are required (please refer to standard configurations).

Step 5: Panel options: Add options in alphanumeric order as listed Options in the Catalog Numbering Guide or Options in the introductory section.

To be Noted When Selecting Panelboards

Entries for Mains Lugs, Isolator Switch, Main Circuit Breaker and Branch circuit breakers are based on rated Amps.

1. Entries

Incoming Rating	Terminal Size mm ²	AWG	Wire Range mm ²	AWG	Entry Sizes
40 Amp	10	8	1.5 - 16	16-6	M25
50 Amp	16	6	1.5 - 25	14-6	M32
63 Amp	35	2	2.5 - 50	12-2	M32
80 Amp	35	2	2.5 - 50	12-2	M32
100 Amp	50	1/0	10 - 70	10-1/0	M32/M40
125 Amp	50	1/0	10 - 70	10-1/0	M40/M50
160 Amp	70	2/0	10 - 95	8-2/0	M50/M63
200 Amp	120	4/0	16 - 150	4-4/0	M63/M75
250 Amp	120	4/0	16 - 150	4-4/0	M63/M75

Outgoing Branches ①	Terminal Size mm ²	AWG	Wire Range mm ²	AWG	Entry Sizes
20 Amp	6	8	1.5 - 10	22-8	M20
32 Amp	6	8	1.5 - 10	22-8	M25
40 Amp	10	8	1.5 - 16	16-8	M25
50 Amp	16	6	1.5 - 25	14-6	M32
63 Amp	16	6	2.5 - 50	14-6	M32

2. Outgoing terminal blocks

Up to 32 A, fitted with WDU6 terminals as standard.

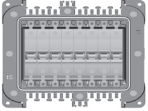
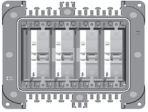
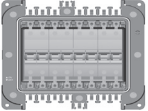
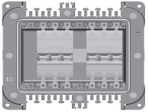
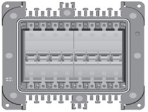
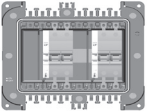
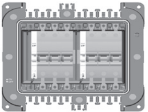
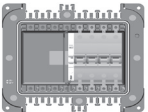
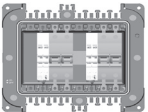
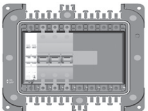
① All outgoing entries must match respective cable sizes based on outgoing ratings.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Panel Arrangement Size Selection Guide

Bus Amps	Volts	Branch Breakers	8-Pole Module	Circuit configurations Main Lugs, Isolator Switch or Main Breaker Maximum no of 8-Poles modules in each Arrangement	Panel Arrangements ①				
					A/B	C	D	E	F
				Maximum number of circuits per module	Maximum Number of Circuits				
63-250 V	220-240/ 380-415, 440 V	1-Pole		8	16	24	32	48	72
		1-Pole + Aux (NO or NC)		4	8	12	16	24	36
		2-Poles		4	8	12	16	24	36
		3-Poles		2	4	6	8	12	18
		4-Poles		2	4	6	8	12	18
		2-Poles + Aux (NO or NC)		2	4	6	8	12	18
		3-Poles + Aux (NO or NC)		2	4	6	8	12	18
		4-Poles + Aux (NO or NC)		1	2	3	4	6	9
		2-Poles + Aux (NO + NC)		2	4	6	8	12	18
		3-Poles + Aux (NO + NC)		1	2	3	4	6	9

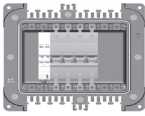
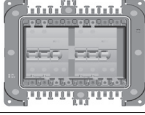
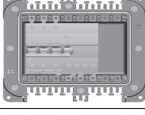
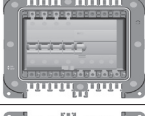
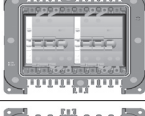
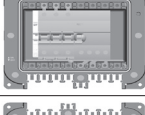
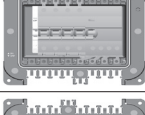


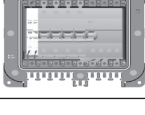
① Panel Arrangement A has the same number of circuits as Panel Arrangements B without the Mains.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Panel Arrangement Size Selection Guide (continued)

Bus Amps	Volts	Branch Breakers	8-Pole Module	Circuit configurations Main Lugs, Isolator Switch or Main Breaker Maximum no of 8-Poles modules in each Arrangement	Panel Arrangements ①				
					A/B	C	D	E	F
				Maximum number of circuits per module	Maximum Number of Circuits				
63-250 V	220-240/ 380-415, 440 V ③	4-Poles + Aux (NO + NC)		1	2	3	4	6	9
		2-Poles + GFI		2	4	6	8	12	18
		3-Poles + GFI		1	2	3	4	6	9
		4-Poles + GFI		1	2	3	4	6	9
		2-Poles + GFI + Aux (NO or NC)		2	4	6	8	12	18
		3-Poles + GFI + Aux (NO or NC)		1	2	3	4	6	9
		4-Poles + GFI + Aux (NO or NC)		1	2	3	4	6	9
		2-Poles + GFI + Aux (NO + NC)		1	2	3	4	6	9
		3-Poles + GFI + Aux (NO + NC)		1	2	3	4	6	9
		4-Poles + GFI + Aux (NO + NC) ②		1	2	3	4	6	9

① Panel Arrangement A has the same number of circuits as Panel Arrangements B without the Mains.

② Up to 25 Amps only.

③ 440 V without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Schneider Mains Circuit Breaker (MCCB) Specifications

Common Characteristics

Rated Voltages	Insulation voltage (V)	Ui	800
	Impulse withstand voltage (kV)	Uimp	8
	Operational voltage (V)	Ue	AC 50/60 Hz 690
Compliances	Suitability for isolation		IEC/EN 60947-2 Yes
	Utilisation category		A
	Pollution degree		IEC 60664-1 3

Breaking Capacity

Circuit Breakers		NSX100						NSX160						NSX250																	
Breaking Capacity Levels ①		B	F	N	H	S	L	R	HB1 ②	HB2	B	F	N	H	S	L	B	F	N	H	S	L	R	HB1 ②	HB2						
Rated current (A)	In	100						100						160						250						250					
Number of poles		2 ③, 3, 4						2 ③, 3, 4						2 ③, 3, 4						2 ③, 3, 4						2 ③, 3, 4					

Breaking capacity (kA rms)

Icu AC 50/60 Hz	220/240 V	40	85	90	100	120	150	200	—	—	40	85	90	100	120	150	40	85	90	100	120	150	200	—	—
	380/415 V	25	36	50	70	100	150	200	—	—	25	36	50	70	100	150	25	36	50	70	100	150	200	—	—
	440 V	20	35	50	65	90	130	200	—	—	20	35	50	65	90	130	20	35	50	65	90	130	200	—	—
	500 V	15	25	36	50	65	70	80	85	100	15	30	36	50	65	70	15	30	36	50	65	70	80	85	100
	525 V	—	22	35	35	40	50	65	80	100	—	22	35	35	40	50	—	22	35	35	40	50	65	80	100
	660/690 V	—	8	10	10	15	20	45	75	100	—	8	10	10	15	20	—	8	10	10	15	20	45	75	100

Service breaking capacity (kA rms)

Ics AC 50/60 Hz	220/240 V	40	85	90	100	120	150	200	—	—	40	85	90	100	120	150	40	85	90	100	120	150	200	—	—
	380/415 V	25	36	50	70	100	150	200	—	—	25	36	50	70	100	150	25	36	50	70	100	150	200	—	—
	440 V	20	35	50	65	90	130	200	—	—	20	35	50	65	90	130	20	35	50	65	90	130	200	—	—
	500 V	7.5	12.5	36	50	65	70	80	85	100	15	30	36	50	65	70	15	30	36	50	65	70	80	85	100
	525 V	—	11	35	35	40	50	65	80	100	—	22	35	35	40	50	—	22	35	35	40	50	65	80	100
	660/690 V	—	4	10	10	15	20	45	75	100	—	8	10	10	15	20	—	8	10	10	15	20	45	75	100

① Electrical characteristics as per IEC 60947-2.

② There is no 160 A frame, use 250 A frame with lower amperage trip units for R, HB1, HB2.

③ 2P circuit breaker in 3P case for B and F types, only with thermal-magnetic trip unit.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Schneider Branch Circuit Breaker Specifications

iC60N Circuit Breakers — Standard Offering — Curve B, C, D

Alternating current (AC) 50/60 Hz — Breaking capacity (Icu)

		Voltage (Ue) ①				Voltage (Ue) ②	
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	400 V	Service Breaking Capacity (Ics)
Ph/N (1P, 1P+N)		12 to 60 V	100 to 133 V	220 to 240 V	—	230 V	
Rating (In)	0.5 to 4 A	50 kA	50 kA	50 kA	25 kA	6 kA	100% of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	6 kA	75% of Icu

iC60H Circuit Breakers — Optional Offering — Curve B, C, D

Alternating current (AC) 50/60 Hz — Breaking capacity (Icu)

		Voltage (Ue) ①				Voltage (Ue) ②	
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	400 V	Service Breaking Capacity (Ics)
Ph/N (1P, 1P+N)		12 to 60 V	100 to 133 V	220 to 240 V	—	230 V	
Rating (In)	0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	10 kA	100% of Icu
	6 to 63 A	42 kA	30 kA	15 kA	10 kA	10 kA	50% of Icu

iC60L Circuit Breakers — Optional Offering — Curve B, C, K, Z

Alternating current (AC) 50/60 Hz — Breaking capacity (Icu) according to IEC/EN 60947-2

		Voltage (Ue) ①				Voltage (Ue) ②	
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	400 V	Service Breaking Capacity (Ics)
Ph/N (1P)		12 to 60 V	100 to 133 V	220 to 240 V	—	230 V	
Rating (In)	0.5 to 4 A	100 kA	100 kA	100 kA	70 kA	15 kA	100% of Icu
	6 to 25 A	70 kA	50 kA	25 kA	20 kA	15 kA	50% of Icu
	32/40 A	70 kA	36 kA	20 kA	15 kA	15 kA	50% of Icu
	50/63 A	70 kA	30 kA	15 kA	10 kA	—	50% of Icu

① Breaking capacity (Icu) according to IEC/EN 60947-2.

② Breaking capacity (Icn) according to IEC/EN 60898-1.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Schneider Branch Circuit Breaker Specifications (continued)

Vigi iC60 Add-On Residual Current Devices (RCD or GFI) — Optional

Voltage rating (Ue): 230 - 240 V, 400 - 415 V
 Operating frequency: 50/60 Hz

	Amps	Sensitivity			
		10 mA	30 mA	300 mA	100 mA
2P	0.5 to 25 A	X	X	X	X
	32 to 40 A	—	X	X	—
	50 to 63 A	—	X	X	X
3P	0.5 to 25 A	—	X	X	—
	32 to 40 A	—	X	X	—
	50 to 63 A	—	X	X	—
4P	0.5 to 25 A	—	X	X	X
	32 to 40 A	—	X	X	—
	50 to 63 A	—	X	X	X

Auxiliary Contact

Maximum	Terminal Size		Wire Range	
	mm ²	AWG	mm ²	AWG
6 Amp	2.5	12	1.5 - 4	26 - 12

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Cascading — Panelboard Short Circuit Ratings

Upstream: NSX100 — Downstream: iC60 — Ue: 380-415 V (Ph/N 220-240 V)

Upstream	NSX100						
	NSX100B	NSX100F	NSX100N	NSX100H	NSX100S	NSX100L	
Breaking capacity (kA)	25	36	50	70	100	150	
Downstream							
	In Max (A)	Icu (kA)	Reinforced breaking capacity (kA)				
iC60N	63	10	20	25	30	30	30
iC60H	40	15	25	36	40	40	40
	63	15	25	36	36	36	36
iC60L	25	25	—	36	40	40	40
	40	20	25	36	40	40	40
	63	15	25	36	36	36	36

Upstream: NSX160 — Downstream: C60 — Ue: 380-415 V (Ph/N 220-240 V)

Upstream	NSX160						
	NSX160B	NSX160F	NSX160N	NSX160H	NSX160S	NSX160L	
Breaking capacity (kA)	25	36	50	70	100	150	
Downstream							
	In Max (A)	Icu (kA)	Reinforced breaking capacity (kA)				
iC60N	63	10	20	25	30	30	30
iC60H	40	15	25	36	40	40	40
	63	15	25	30	30	30	30
iC60L	25	25	—	36	40	40	40
	40	20	25	36	40	40	40
	63	15	25	30	36	36	36

Upstream: NSX250 — Downstream: iC60 — Ue: 380-415 V (Ph/N 220-240 V)

Upstream	NSX250						
	NSX250B	NSX250F	NSX250N	NSX250H	NSX250S	NSX250L	
Breaking capacity (kA)	25	36	50	70	100	150	
Downstream							
	In Max (A)	Icu (kA)	Reinforced breaking capacity (kA)				
iC60N	40	10	20	25	30	30	30
	63	10	20	25	25	25	25
iC60H	40	15	25	30	30	30	30
	63	15	25	25	25	25	25
iC60L	25	25	—	30	30	30	30
	40	20	25	30	30	30	30
	63	15	25	25	25	25	25

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Cascading — Panelboard Short Circuit Ratings (continued)

Upstream: NSX100 — Downstream: iC60 — Ue: 440 V

Upstream	NSX100						
	NSX100B	NSX100F	NSX100N	NSX100H	NSX100S	NSX100L	
Breaking capacity (kA)	20	35	50	65	90	130	
Downstream							
	Breaking Capacity (kA)		Reinforced breaking capacity (kA)				
iC60N	6	15	15	20	20	20	20
iC60H	10	20	20	25	25	25	25
iC60L	≤ 25 A	20	—	—	25	25	25
	32-40 A	15	20	20	25	25	25
	50-63 A	10	—	—	—	—	—

Upstream: NSX160 — Downstream: iC60 — Ue: 440 V

Upstream	NSX160						
	NSX160B	NSX160F	NSX160N	NSX160H	NSX160S	NSX160L	
Breaking capacity (kA)	20	35	50	65	90	130	
Downstream							
	Breaking Capacity (kA)		Reinforced breaking capacity (kA)				
iC60N	6	15	15	20	20	20	20
iC60H	10	20	20	25	25	25	25
iC60L	≤ 25 A	20	—	—	25	25	25
	32-40 A	15	20	20	25	25	25
	50-63 A	10	—	—	—	—	—

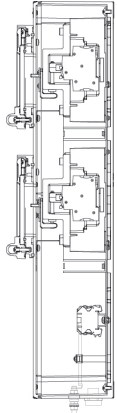
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

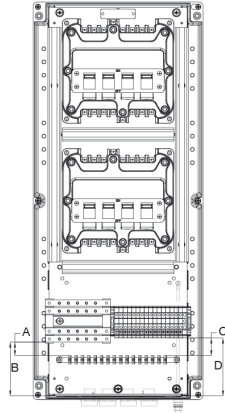
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement A

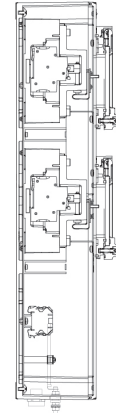
Left Internal View



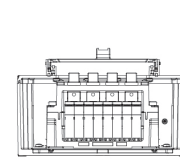
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	26 (1.02)
B	102 (4.02)
C	33 (1.30)
D	109 (4.29)

Breaker Curve C	Branch Breakers				Main Lugs Only	Armored Entries			Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty		Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
2-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
2-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	—	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	—	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	X	—	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	—	—
3-Poles 16 Amp	X	X	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	—	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	—	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	—	—
4-Poles 16 Amp	X	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement A

Technical Information

Panel A Size	750 x 320 x 150 mm
Panel Weight	40 kg (88 lb)
Max. No. of Circuits	See Panel Arrangement Size Selection Table
Voltage	220-240/380-415, 440
Wiring	See Wiring Diagram Table

	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑧
Mains	63 A	-	-
Bus-bar	100 A	-	-
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	100 A, 3 Ph, 5 W	-	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position “NC” Fault		Auxiliary	Non-Armored ⑥	
				Qty ④	Qty ⑤		Complete Catalog No	Ordering Catalog No
4	35 mm ²	16	6 mm ²	—	—	—	PPAL068216C	PPAL068216C10N
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PPAL064216C1	PPAL064216C20N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPAL064216C4	PPAL064216C30N
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PPAL064216C5	PPAL064216C40N
4	35 mm ²	8	6 mm ²	—	—	—	PPAL064216CG030	PPAL064216C50N
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PPAL064216C1G030	PPAL064216C60N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPAL064216C4G030	PPAL064216C70N
4	35 mm ²	4	6 mm ²	8	2	2.5 mm ²	PPAL062216C5G030	PPAL062216C80N
3	35 mm ²	12	6 mm ²	—	—	—	PPAL054316C	PPAL054316C10N
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PPAL054316C1	PPAL054316C20N
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPAL054316C4	PPAL054316C30N
3	35 mm ²	6	6 mm ²	8	2	2.5 mm ²	PPAL052316C5	PPAL052316C40N
3	35 mm ²	6	6 mm ²	—	—	—	PPAL052316CG030	PPAL052316C50N
3	35 mm ²	6	6 mm ²	4	—	2.5 mm ²	PPAL052316C1G030	PPAL052316C60N
3	35 mm ²	6	6 mm ²	—	2	2.5 mm ²	PPAL052316C4G030	PPAL052316C70N
3	35 mm ²	6	6 mm ²	4	2	2.5 mm ²	PPAL052316C5G030	PPAL052316C80N
4	35 mm ²	16	6 mm ²	—	—	—	PPAL064416C	PPAL064416C10N
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PPAL062416C1	PPAL062416C20N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPAL062416C4	PPAL062416C30N
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PPAL062416C5	PPAL062416C40N
4	35 mm ²	8	6 mm ²	—	—	—	PPAL062416CG030	PPAL062416C50N
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PPAL062416C1G030	PPAL062416C60N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPAL062416C4G030	PPAL062416C70N
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PPAL062416C5G030	PPAL062416C80N

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPBL048216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

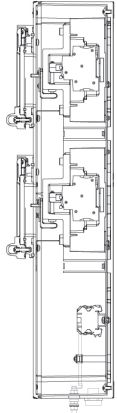
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

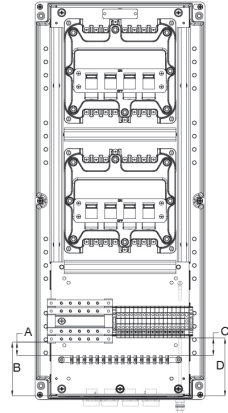
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement A

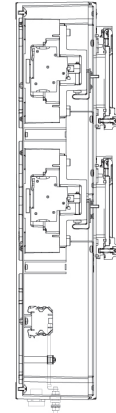
Left Internal View



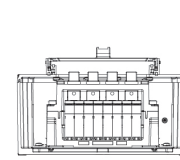
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	26 (1.02)
B	102 (4.02)
C	33 (1.30)
D	109 (4.29)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Lugs Only	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
2-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
2-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	—	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	—	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	X	—	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	—	—
3-Poles 16 Amp	X	X	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	—	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	—	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	—	—
4-Poles 16 Amp	X	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement A

Technical Information

Panel A Size	790 x 330 x 150 mm		
Panel Weight	40 kg (88 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑥
Mains	63 A	-	-
Bus-bar	100 A	-	-
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	100 A, 3 Ph, 5 W	-	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		Auxiliary	Non-Armored ⑥	
				Qty ④	Qty ⑤		Complete Catalog No	Ordering Catalog No
4	35 mm ²	16	6 mm ²	—	—	—	PSAL068216C	PSAL068216C10N
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PSAL064216C1	PSAL064216C20N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSAL064216C4	PSAL064216C30N
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PSAL064216C5	PSAL064216C40N
4	35 mm ²	8	6 mm ²	—	—	—	PSAL064216CG030	PSAL064216C50N
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PSAL064216C1G030	PSAL064216C60N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSAL064216C4G030	PSAL064216C70N
4	35 mm ²	4	6 mm ²	8	2	2.5 mm ²	PSAL062216C5G030	PSAL062216C80N
3	35 mm ²	12	6 mm ²	—	—	—	PSAL054316C	PSAL054316C10N
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PSAL054316C1	PSAL054316C20N
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSAL054316C4	PSAL054316C30N
3	35 mm ²	6	6 mm ²	8	2	2.5 mm ²	PSAL052316C5	PSAL052316C40N
3	35 mm ²	6	6 mm ²	—	—	—	PSAL052316CG030	PSAL052316C50N
3	35 mm ²	6	6 mm ²	4	—	2.5 mm ²	PSAL052316C1G030	PSAL052316C60N
3	35 mm ²	6	6 mm ²	—	2	2.5 mm ²	PSAL052316C4G030	PSAL052316C70N
3	35 mm ²	6	6 mm ²	4	2	2.5 mm ²	PSAL052316C5G030	PSAL052316C80N
4	35 mm ²	16	6 mm ²	—	—	—	PSAL064416C	PSAL064416C10N
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PSAL062416C1	PSAL062416C20N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSAL062416C4	PSAL062416C30N
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PSAL062416C5	PSAL062416C40N
4	35 mm ²	8	6 mm ²	—	—	—	PSAL062416CG030	PSAL062416C50N
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PSAL062416C1G030	PSAL062416C60N
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSAL062416C4G030	PSAL062416C70N
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PSAL062416C5G030	PSAL062416C80N

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPBL048216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

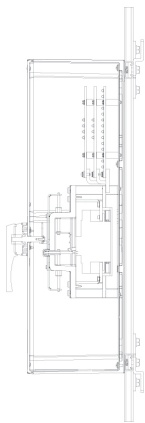
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

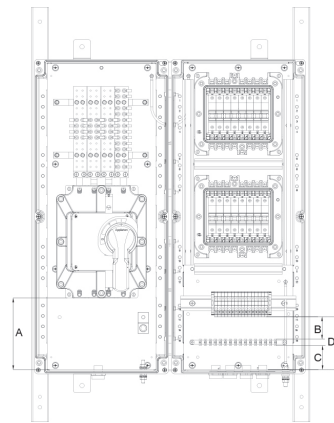
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement B

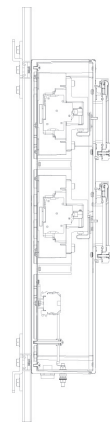
Left Internal View



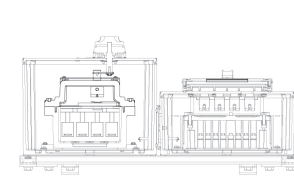
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	17 (0.67)
B	53 (4.02)
C	57 (2.24)
D	126 (4.96)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
2-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
2-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	—	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	—	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	X	—	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	—	—
3-Poles 16 Amp	X	X	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	—	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	—	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	—	—
4-Poles 16 Amp	X	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25

Please note the following:

- For KAIC ratings for mains, busbar and branch circuit breakers, refer to Coordination Study Chart.
- FRP coupled enclosures are mounted on side and top of each other.
- Alternative arrangement are available as option, consult local sales representative.
- Number of circuits shown are non GFI and without auxiliary contacts equipped breakers.
- GFI and auxiliary contact equipped breakers number of circuits are determined as total number of circuits. Standard arrangements for all possibilities are listed in standard catalog pages

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement B

Technical Information

Panel B Size	750 x 640 x 230 mm		
Panel Weight	70 kg (154 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑧
Mains	100 A	25	20
Bus-bar	125 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	100 A, 3 Ph, 5 W	20	15

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	35 mm ²	16	6 mm ²	—	—	—	PPBM068216C	PPBM068216C10N	
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PPBM064216C1	PPBM064216C20N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPBM064216C4	PPBM064216C30N	
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PPBM064216C5	PPBM064216C40N	
4	35 mm ²	8	6 mm ²	—	—	—	PPBM064216CG030	PPBM064216C50N	
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PPBM064216C1G030	PPBM064216C60N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPBM064216C4G030	PPBM064216C70N	
4	35 mm ²	4	6 mm ²	8	2	2.5 mm ²	PPBM062216C5G030	PPBM062216C80N	
3	35 mm ²	12	6 mm ²	—	—	—	PPBM054316C	PPBM054316C10N	
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PPBM054316C1	PPBM054316C20N	
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPBM054316C4	PPBM054316C30N	
3	35 mm ²	6	6 mm ²	8	2	2.5 mm ²	PPBM052316C5	PPBM052316C40N	
3	35 mm ²	6	6 mm ²	—	—	—	PPBM052316CG030	PPBM052316C50N	
3	35 mm ²	6	6 mm ²	4	—	2.5 mm ²	PPBM052316C1G030	PPBM052316C60N	
3	35 mm ²	6	6 mm ²	—	2	2.5 mm ²	PPBM052316C4G030	PPBM052316C70N	
3	35 mm ²	6	6 mm ²	4	2	2.5 mm ²	PPBM052316C5G030	PPBM052316C80N	
4	35 mm ²	16	6 mm ²	—	—	—	PPBM064416C	PPBM064416C10N	
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PPBM062416C1	PPBM062416C20N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPBM062416C4	PPBM062416C30N	
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PPBM062416C5	PPBM062416C40N	
4	35 mm ²	8	6 mm ²	—	—	—	PPBM062416CG030	PPBM062416C50N	
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PPBM062416C1G030	PPBM062416C60N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PPBM062416C4G030	PPBM062416C70N	
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PPBM062416C5G030	PPBM062416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number, example: PPBM048216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

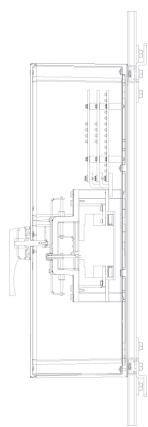
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

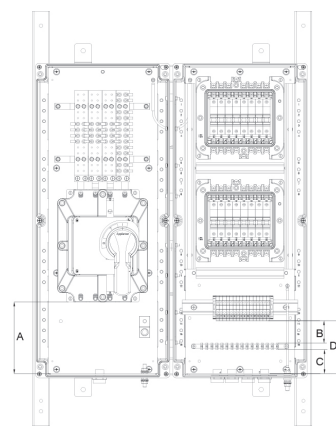
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement B

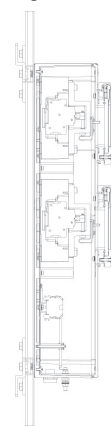
Left Internal View



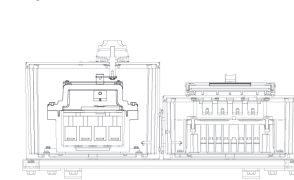
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	17 (0.67)
B	53 (4.02)
C	57 (2.24)
D	126 (4.96)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
2-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
2-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
2-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	—	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	—	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	—	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M25	M25
3-Poles 16 Amp	X	—	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	—	—
3-Poles 16 Amp	X	X	—	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	—	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
3-Poles 16 Amp	X	X	X	2	3 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	—	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	—	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	—	—
4-Poles 16 Amp	X	X	—	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	—	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25
4-Poles 16 Amp	X	X	X	2	4 x 63 Amp	M32	2	M20	M40	2	M20	M20	M25

Please note the following:

- For KAIC ratings for mains, busbar and branch circuit breakers, refer to Coordination Study Chart.
- FRP coupled enclosures are mounted on side and top of each other.
- Alternative arrangement are available as option, consult local sales representative.
- Number of circuits shown are non GFI and without auxiliary contacts equipped breakers.
- GFI and auxiliary contact equipped breakers number of circuits are determined as total number of circuits. Standard arrangements for all possibilities are listed in standard catalog pages

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement B

Technical Information

Panel B Size	790 x 660 x 230 mm		
Panel Weight	70 kg (154 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑧
Mains	100 A	25	20
Bus-bar	125 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	100 A, 3 Ph, 5 W	20	15

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	35 mm ²	16	6 mm ²	—	—	—	PSBM068216C	PSBM068216C10N	
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PSBM064216C1	PSBM064216C20N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSBM064216C4	PSBM064216C30N	
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PSBM064216C5	PSBM064216C40N	
4	35 mm ²	8	6 mm ²	—	—	—	PSBM064216CG030	PSBM064216C50N	
4	35 mm ²	8	6 mm ²	8	—	2.5 mm ²	PSBM064216C1G030	PSBM064216C60N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSBM064216C4G030	PSBM064216C70N	
4	35 mm ²	4	6 mm ²	8	2	2.5 mm ²	PSBM062216C5G030	PSBM062216C80N	
3	35 mm ²	12	6 mm ²	—	—	—	PSBM054316C	PSBM054316C10N	
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PSBM054316C1	PSBM054316C20N	
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSBM054316C4	PSBM054316C30N	
3	35 mm ²	6	6 mm ²	8	2	2.5 mm ²	PSBM052316C5	PSBM052316C40N	
3	35 mm ²	6	6 mm ²	—	—	—	PSBM052316CG030	PSBM052316C50N	
3	35 mm ²	6	6 mm ²	4	—	2.5 mm ²	PSBM052316C1G030	PSBM052316C60N	
3	35 mm ²	6	6 mm ²	—	2	2.5 mm ²	PSBM052316C4G030	PSBM052316C70N	
3	35 mm ²	6	6 mm ²	4	2	2.5 mm ²	PSBM052316C5G030	PSBM052316C80N	
4	35 mm ²	16	6 mm ²	—	—	—	PSBM064416C	PSBM064416C10N	
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PSBM062416C1	PSBM062416C20N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSBM062416C4	PSBM062416C30N	
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PSBM062416C5	PSBM062416C40N	
4	35 mm ²	8	6 mm ²	—	—	—	PSBM062416CG030	PSBM062416C50N	
4	35 mm ²	8	6 mm ²	4	—	2.5 mm ²	PSBM062416C1G030	PSBM062416C60N	
4	35 mm ²	8	6 mm ²	—	2	2.5 mm ²	PSBM062416C4G030	PSBM062416C70N	
4	35 mm ²	8	6 mm ²	4	2	2.5 mm ²	PSBM062416C5G030	PSBM062416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number, example: PPBM048216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

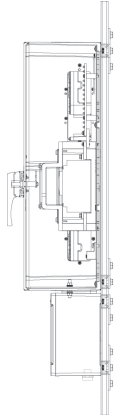
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

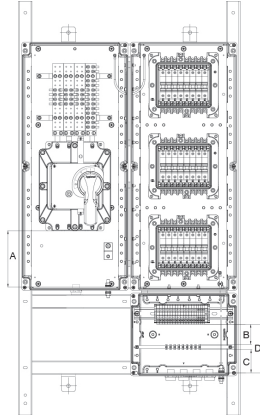
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement C

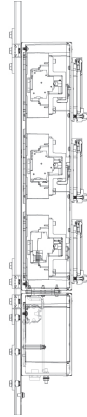
Left Internal View



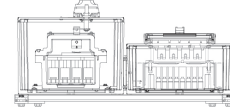
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	170 (6.69)
B	61 (2.40)
C	70 (2.76)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	—	—
2-Poles 16 Amp	—	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
2-Poles 16 Amp	—	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	—	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
2-Poles 16 Amp	X	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
2-Poles 16 Amp	X	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	X	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	X	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	—	—	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	—	—
3-Poles 16 Amp	—	X	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	—	—	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
3-Poles 16 Amp	—	X	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	—	—	3	3 x 63 Amp	M32	3	M20	M40	3	M20	—	—
3-Poles 16 Amp	X	X	—	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	—	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	X	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
4-Poles 16 Amp	—	X	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	—	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	—	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	—	—
4-Poles 16 Amp	X	X	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	—	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement C

Technical Information

Panel C Size	1000 x 640 x 230 mm
Panel Weight	80 kg (176 lb)
Max. No. of Circuits	See Panel Arrangement Size Selection Table
Voltage	220-240/380-415, 440
Wiring	See Wiring Diagram Table

	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑥
Mains	125 A	25	20
Bus-bar	125 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	125 A, 3 Ph, 5 W	20	15

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	50 mm ²	24	6 mm ²	—	—	—	PPCM1212216C	PPCM1212216C10N	
4	35 mm ²	12	6 mm ²	12	—	2.5 mm ²	PPCM066216C1	PPCM066216C20N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPCM066216C4	PPCM066216C30N	
4	35 mm ²	12	6 mm ²	12	2	2.5 mm ²	PPCM066216C5	PPCM066216C40N	
4	35 mm ²	12	6 mm ²	—	—	—	PPCM066216CG030	PPCM066216C50N	
4	35 mm ²	12	6 mm ²	12	—	2.5 mm ²	PPCM066216C1G030	PPCM066216C60N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPCM066216C4G030	PPCM066216C70N	
4	35 mm ²	6	6 mm ²	12	2	2.5 mm ²	PPCM063216C5G030	PPCM063216C80N	
3	35 mm ²	18	6 mm ²	—	—	—	PPCM056316C	PPCM056316C10N	
3	35 mm ²	18	6 mm ²	12	—	2.5 mm ²	PPCM056316C1	PPCM056316C20N	
3	35 mm ²	18	6 mm ²	—	2	2.5 mm ²	PPCM056316C4	PPCM056316C30N	
3	35 mm ²	9	6 mm ²	6	2	2.5 mm ²	PPCM053316C5	PPCM053316C40N	
3	35 mm ²	9	6 mm ²	—	—	—	PPCM053316CG030	PPCM053316C50N	
3	35 mm ²	9	6 mm ²	6	—	2.5 mm ²	PPCM053316C1G030	PPCM053316C60N	
3	35 mm ²	9	6 mm ²	—	2	2.5 mm ²	PPCM053316C4G030	PPCM053316C70N	
3	35 mm ²	9	6 mm ²	6	2	2.5 mm ²	PPCM053316C5G030	PPCM053316C80N	
4	35 mm ²	24	6 mm ²	—	—	—	PPCM066416C	PPCM066416C10N	
4	35 mm ²	12	6 mm ²	6	—	2.5 mm ²	PPCM063416C1	PPCM063416C20N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPCM063416C4	PPCM063416C30N	
4	35 mm ²	12	6 mm ²	6	2	2.5 mm ²	PPCM063416C5	PPCM063416C40N	
4	35 mm ²	12	6 mm ²	—	—	—	PPCM063416CG030	PPCM063416C50N	
4	35 mm ²	12	6 mm ²	6	—	2.5 mm ²	PPCM063416C1G030	PPCM063416C60N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPCM063416C4G030	PPCM063416C70N	
4	35 mm ²	12	6 mm ²	6	2	2.5 mm ²	PPCM063416C5G030	PPCM063416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPCM0812216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

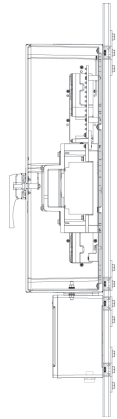
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

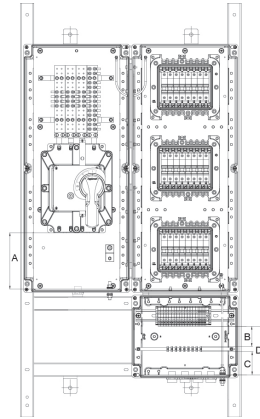
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement C

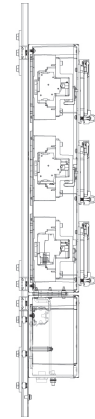
Left Internal View



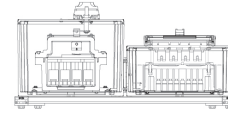
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	170 (6.69)
B	61 (2.40)
C	70 (2.76)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries			Non-Armored Entries					
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	—	—
2-Poles 16 Amp	—	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
2-Poles 16 Amp	—	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	—	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
2-Poles 16 Amp	X	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
2-Poles 16 Amp	X	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	X	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
2-Poles 16 Amp	X	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	—	—	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	—	—
3-Poles 16 Amp	—	X	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	—	—	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
3-Poles 16 Amp	—	X	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	—	—	3	3 x 63 Amp	M32	3	M20	M40	3	M20	—	—
3-Poles 16 Amp	X	X	—	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	—	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
3-Poles 16 Amp	X	X	X	3	3 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
4-Poles 16 Amp	—	X	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	—	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	—	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	—	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	—	—
4-Poles 16 Amp	X	X	—	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	—	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25
4-Poles 16 Amp	X	X	X	3	4 x 63 Amp	M32	3	M20	M40	3	M20	M20	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement C

Technical Information

Panel C Size	1080 x 660 x 230 mm		
Panel Weight	80 kg (176 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑥
Mains	125 A	25	20
Bus-bar	125 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	125 A, 3 Ph, 5 W	20	15

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	50 mm ²	24	6 mm ²	—	—	—	PSCM1212216C	PSCM1212216C10N	
4	35 mm ²	12	6 mm ²	12	—	2.5 mm ²	PSCM066216C1	PSCM066216C20N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSCM066216C4	PSCM066216C30N	
4	35 mm ²	12	6 mm ²	12	2	2.5 mm ²	PSCM066216C5	PSCM066216C40N	
4	35 mm ²	12	6 mm ²	—	—	—	PSCM066216CG030	PSCM066216C50N	
4	35 mm ²	12	6 mm ²	12	—	2.5 mm ²	PSCM066216C1G030	PSCM066216C60N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSCM066216C4G030	PSCM066216C70N	
4	35 mm ²	6	6 mm ²	12	2	2.5 mm ²	PSCM063216C5G030	PSCM063216C80N	
3	35 mm ²	18	6 mm ²	—	—	—	PSCM056316C	PSCM056316C10N	
3	35 mm ²	18	6 mm ²	12	—	2.5 mm ²	PSCM056316C1	PSCM056316C20N	
3	35 mm ²	18	6 mm ²	—	2	2.5 mm ²	PSCM056316C4	PSCM056316C30N	
3	35 mm ²	9	6 mm ²	6	2	2.5 mm ²	PSCM053316C5	PSCM053316C40N	
3	35 mm ²	9	6 mm ²	—	—	—	PSCM053316CG030	PSCM053316C50N	
3	35 mm ²	9	6 mm ²	6	—	2.5 mm ²	PSCM053316C1G030	PSCM053316C60N	
3	35 mm ²	9	6 mm ²	—	2	2.5 mm ²	PSCM053316C4G030	PSCM053316C70N	
3	35 mm ²	9	6 mm ²	6	2	2.5 mm ²	PSCM053316C5G030	PSCM053316C80N	
4	35 mm ²	24	6 mm ²	—	—	—	PSCM066416C	PSCM066416C10N	
4	35 mm ²	12	6 mm ²	6	—	2.5 mm ²	PSCM063416C1	PSCM063416C20N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSCM063416C4	PSCM063416C30N	
4	35 mm ²	12	6 mm ²	6	2	2.5 mm ²	PSCM063416C5	PSCM063416C40N	
4	35 mm ²	12	6 mm ²	—	—	—	PSCM063416CG030	PSCM063416C50N	
4	35 mm ²	12	6 mm ²	6	—	2.5 mm ²	PSCM063416C1G030	PSCM063416C60N	
4	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSCM063416C4G030	PSCM063416C70N	
4	35 mm ²	12	6 mm ²	6	2	2.5 mm ²	PSCM063416C5G030	PSCM063416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number, example: PSCM0812216C10A.

⑦ For higher kA rating please consult your local sales representative.

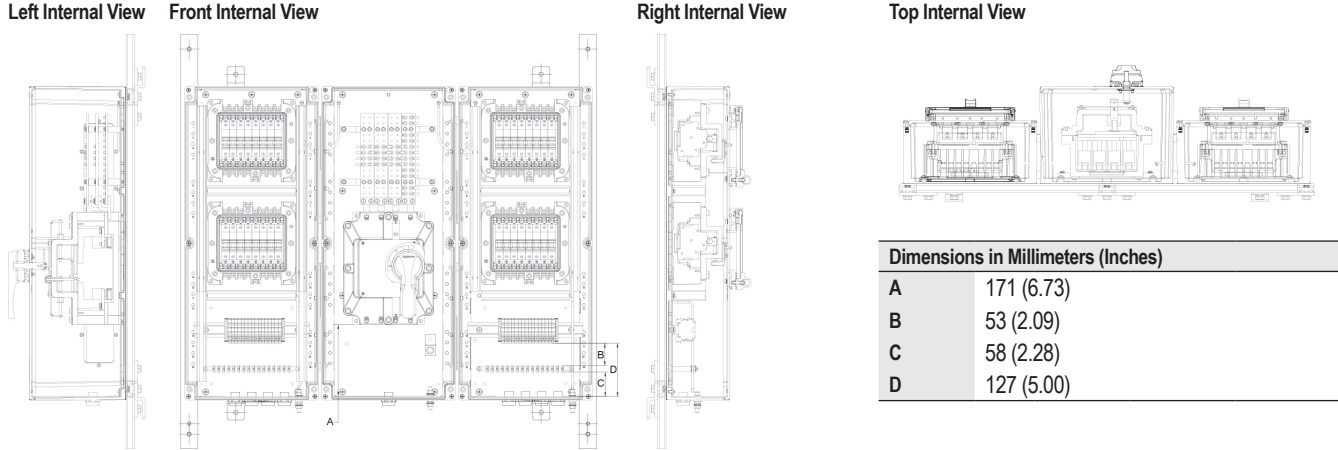
⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement D



Breaker Curve C	Branch Breakers				Armored Entries			Non-Armored Entries					
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	16	4 x 160 Amp	M50	16	M20	M50	16	M20	—	—
2-Poles 16 Amp	—	X	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	—	—	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
2-Poles 16 Amp	—	X	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	X	—	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	X	X	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	X	—	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
2-Poles 16 Amp	X	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
3-Poles 16 Amp	—	—	—	8	3 x 100 Amp	M40	8	M20	M40	8	M20	—	—
3-Poles 16 Amp	—	X	—	8	3 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
3-Poles 16 Amp	—	—	X	8	3 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
3-Poles 16 Amp	—	X	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
3-Poles 16 Amp	X	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	X	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	X	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	X	X	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
4-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
4-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
4-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	X	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement D

Technical Information			
Panel D Size	750 x 960 x 230 mm		
Panel Weight	120 kg (265 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑧
Mains	160 A	25	20
Bus-bar	160 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	160 A, 3 Ph, 5 W	20	15

Terminals ①								
Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No
4	70 mm ²	32	6 mm ²	—	—	—	PPDM1416216C	PPDM1416216C10N
4	50 mm ²	16	6 mm ²	16	—	2.5 mm ²	PPDM108216C1	PPDM108216C20N
4	50 mm ²	16	6 mm ²	—	2	2.5 mm ²	PPDM108216C4	PPDM108216C30N
4	50 mm ²	16	6 mm ²	16	2	2.5 mm ²	PPDM108216C5	PPDM108216C40N
4	50 mm ²	16	6 mm ²	—	—	—	PPDM108216CG030	PPDM108216C50N
4	50 mm ²	16	6 mm ²	16	—	2.5 mm ²	PPDM108216C1G030	PPDM108216C60N
4	50 mm ²	16	6 mm ²	—	2	2.5 mm ²	PPDM108216C4G030	PPDM108216C70N
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PPDM064216C5G030	PPDM064216C80N
3	50 mm ²	24	6 mm ²	—	—	—	PPDM098316C	PPDM098316C10N
3	50 mm ²	24	6 mm ²	16	—	2.5 mm ²	PPDM098316C1	PPDM098316C20N
3	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPDM098316C4	PPDM098316C30N
3	35 mm ²	12	6 mm ²	8	2	2.5 mm ²	PPDM054316C5	PPDM054316C40N
3	35 mm ²	12	6 mm ²	—	—	—	PPDM054316CG030	PPDM054316C50N
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PPDM054316C1G030	PPDM054316C60N
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PPDM054316C4G030	PPDM054316C70N
3	35 mm ²	12	6 mm ²	8	2	2.5 mm ²	PPDM054316C5G030	PPDM054316C80N
4	35 mm ²	32	6 mm ²	—	—	—	PPDM068416C	PPDM068416C10N
4	35 mm ²	16	6 mm ²	8	—	2.5 mm ²	PPDM064416C1	PPDM064416C20N
4	35 mm ²	16	6 mm ²	—	2	2.5 mm ²	PPDM064416C4	PPDM064416C30N
4	35 mm ²	16	6 mm ²	8	2	2.5 mm ²	PPDM064416C5	PPDM064416C40N
4	35 mm ²	16	6 mm ²	—	—	—	PPDM064416CG030	PPDM064416C50N
4	35 mm ²	16	6 mm ²	8	—	2.5 mm ²	PPDM064416C1G030	PPDM064416C60N
4	35 mm ²	16	6 mm ²	—	2	2.5 mm ²	PPDM064416C4G030	PPDM064416C70N
4	35 mm ²	16	6 mm ²	8	2	2.5 mm ²	PPDM064416C5G030	PPDM064416C80N

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPDM1016216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

Distribution Equipment

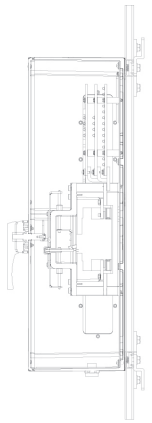
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

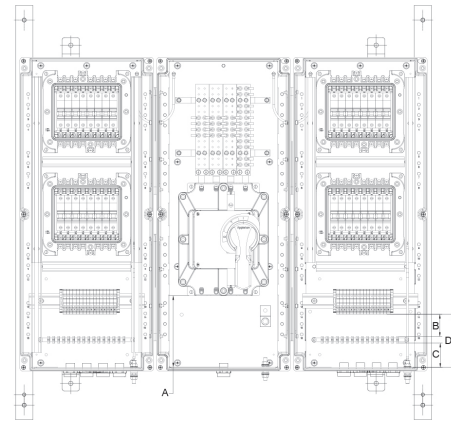
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement D

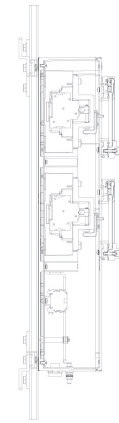
Left Internal View



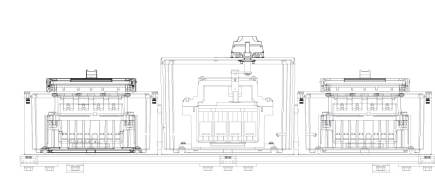
Front Internal View



Right Internal View



Top Internal View



Dimensions in Millimeters (Inches)

A	171 (6.73)
B	53 (2.09)
C	58 (2.28)
D	127 (5.00)

Breaker Curve C	Branch Breakers				Armored Entries			Non-Armored Entries					
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	16	4 x 160 Amp	M50	16	M20	M50	16	M20	—	—
2-Poles 16 Amp	—	X	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	—	—	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
2-Poles 16 Amp	—	X	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	X	—	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	—	—
2-Poles 16 Amp	X	X	—	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
2-Poles 16 Amp	X	—	X	8	4 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
2-Poles 16 Amp	X	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
3-Poles 16 Amp	—	—	—	8	3 x 100 Amp	M40	8	M20	M40	8	M20	—	—
3-Poles 16 Amp	—	X	—	8	3 x 100 Amp	M40	8	M20	M40	8	M20	M25	M25
3-Poles 16 Amp	—	—	X	8	3 x 100 Amp	M40	8	M20	M40	8	M20	M20	M25
3-Poles 16 Amp	—	X	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
3-Poles 16 Amp	X	—	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	—	—
3-Poles 16 Amp	X	X	—	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	X	—	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
3-Poles 16 Amp	X	X	X	4	3 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
4-Poles 16 Amp	—	—	—	8	4 x 63 Amp	M32	8	M20	M40	8	M20	—	—
4-Poles 16 Amp	—	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	—	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	—	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25
4-Poles 16 Amp	X	—	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	—	—
4-Poles 16 Amp	X	X	—	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	X	—	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M20	M25
4-Poles 16 Amp	X	X	X	4	4 x 63 Amp	M32	4	M20	M40	4	M20	M25	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement D

Technical Information			
Panel D Size	790 x 990 x 230 mm		
Panel Weight	120 kg (265 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415, 440		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑧
Mains	160 A	25	20
Bus-bar	160 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	160 A, 3 Ph, 5 W	20	15

Terminals ①									
Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	70 mm ²	32	6 mm ²	—	—	—	PSDM1416216C	PSDM1416216C10N	
4	50 mm ²	16	6 mm ²	16	—	2.5 mm ²	PSDM108216C1	PSDM108216C20N	
4	50 mm ²	16	6 mm ²	—	2	2.5 mm ²	PSDM108216C4	PSDM108216C30N	
4	50 mm ²	16	6 mm ²	16	2	2.5 mm ²	PSDM108216C5	PSDM108216C40N	
4	50 mm ²	16	6 mm ²	—	—	—	PSDM108216CG030	PSDM108216C50N	
4	50 mm ²	16	6 mm ²	16	—	2.5 mm ²	PSDM108216C1G030	PSDM108216C60N	
4	50 mm ²	16	6 mm ²	—	2	2.5 mm ²	PSDM108216C4G030	PSDM108216C70N	
4	35 mm ²	8	6 mm ²	8	2	2.5 mm ²	PSDM064216C5G030	PSDM064216C80N	
3	50 mm ²	24	6 mm ²	—	—	—	PSDM098316C	PSDM098316C10N	
3	50 mm ²	24	6 mm ²	16	—	2.5 mm ²	PSDM098316C1	PSDM098316C20N	
3	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSDM098316C4	PSDM098316C30N	
3	35 mm ²	12	6 mm ²	8	2	2.5 mm ²	PSDM054316C5	PSDM054316C40N	
3	35 mm ²	12	6 mm ²	—	—	—	PSDM054316CG030	PSDM054316C50N	
3	35 mm ²	12	6 mm ²	8	—	2.5 mm ²	PSDM054316C1G030	PSDM054316C60N	
3	35 mm ²	12	6 mm ²	—	2	2.5 mm ²	PSDM054316C4G030	PSDM054316C70N	
3	35 mm ²	12	6 mm ²	8	2	2.5 mm ²	PSDM054316C5G030	PSDM054316C80N	
4	35 mm ²	32	6 mm ²	—	—	—	PSDM068416C	PSDM068416C10N	
4	35 mm ²	16	6 mm ²	8	—	2.5 mm ²	PSDM064416C1	PSDM064416C20N	
4	35 mm ²	16	6 mm ²	—	2	2.5 mm ²	PSDM064416C4	PSDM064416C30N	
4	35 mm ²	16	6 mm ²	8	2	2.5 mm ²	PSDM064416C5	PSDM064416C40N	
4	35 mm ²	16	6 mm ²	—	—	—	PSDM064416CG030	PSDM064416C50N	
4	35 mm ²	16	6 mm ²	8	—	2.5 mm ²	PSDM064416C1G030	PSDM064416C60N	
4	35 mm ²	16	6 mm ²	—	2	2.5 mm ²	PSDM064416C4G030	PSDM064416C70N	
4	35 mm ²	16	6 mm ²	8	2	2.5 mm ²	PSDM064416C5G030	PSDM064416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPD1016216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

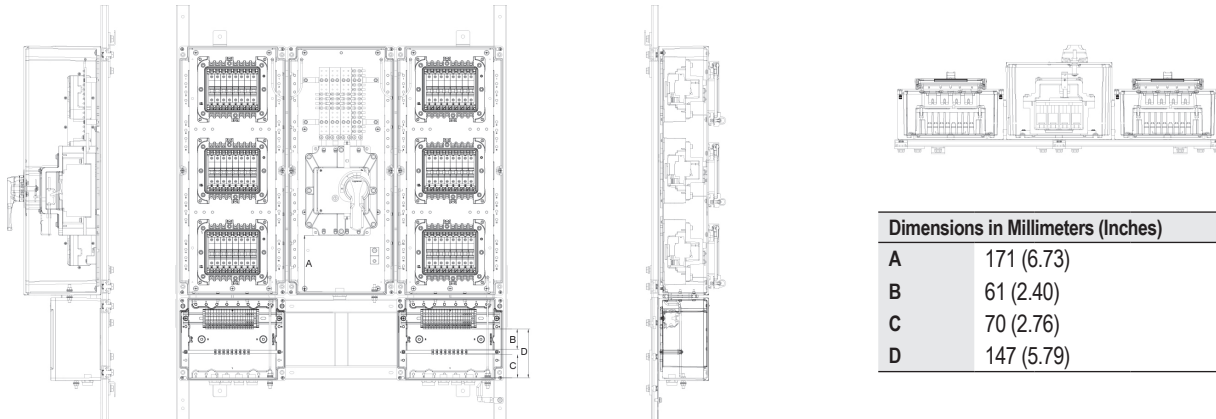
Fiberglass Reinforced Polyester (FRP) Panel Arrangement E

Left Internal View

Front Internal View

Right Internal View

Top Internal View



Dimensions in Millimeters (Inches)	
A	171 (6.73)
B	61 (2.40)
C	70 (2.76)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries			Non-Armored Entries					
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	24	4 x 200 Amp	M63	24	M20	M63	24	M20	—	—
2-Poles 16 Amp	—	X	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	—	—	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
2-Poles 16 Amp	—	X	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	X	—	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	—	—
2-Poles 16 Amp	X	X	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	X	—	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
2-Poles 16 Amp	X	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	—	—	—	12	3 x 125 Amp	M40	12	M20	M40	12	M20	—	—
3-Poles 16 Amp	—	X	—	12	3 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
3-Poles 16 Amp	—	—	X	12	3 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
3-Poles 16 Amp	—	X	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	X	—	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	—	—
3-Poles 16 Amp	X	X	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	X	—	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
3-Poles 16 Amp	X	X	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	—	—	—	12	4 x 63 Amp	M32	12	M20	M40	12	M20	—	—
4-Poles 16 Amp	—	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	—	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
4-Poles 16 Amp	—	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	X	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
4-Poles 16 Amp	X	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	X	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
4-Poles 16 Amp	X	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement E

Technical Information

Panel E Size	1000 x 960 x 230 mm		
Panel Weight	145 kg (320 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415		
Wiring	See Wiring Diagram Table		
	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑧
Mains	200 A	25	20
Bus-bar	250 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	200 A, 3 Ph, 5 W	20	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	120 mm ²	48	6 mm ²	—	—	—	PPEM1624216C	PPEM1624216C10N	
4	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PPEM1212216C1	PPEM1212216C20N	
4	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPEM1212216C4	PPEM1212216C30N	
4	50 mm ²	24	6 mm ²	24	2	2.5 mm ²	PPEM1212216C5	PPEM1212216C40N	
4	50 mm ²	24	6 mm ²	—	—	—	PPEM1212216CG030	PPEM1212216C50N	
4	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PPEM1212216C1G030	PPEM1212216C60N	
4	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPEM1212216C4G030	PPEM1212216C70N	
4	35 mm ²	12	6 mm ²	12	2	2.5 mm ²	PPEM066216C5G030	PPEM066216C80N	
3	50 mm ²	24	6 mm ²	—	—	—	PPEM1112316C	PPEM1112316C10N	
3	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PPEM1112316C1	PPEM1112316C20N	
3	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPEM1112316C4	PPEM1112316C30N	
3	35 mm ²	18	6 mm ²	12	2	2.5 mm ²	PPEM056316C5	PPEM056316C40N	
3	35 mm ²	18	6 mm ²	—	—	—	PPEM056316CG030	PPEM056316C50N	
3	35 mm ²	18	6 mm ²	12	—	2.5 mm ²	PPEM056316C1G030	PPEM056316C60N	
3	35 mm ²	18	6 mm ²	—	2	2.5 mm ²	PPEM056316C4G030	PPEM056316C70N	
3	35 mm ²	18	6 mm ²	12	2	2.5 mm ²	PPEM056316C5G030	PPEM056316C80N	
4	35 mm ²	48	6 mm ²	—	—	—	PPEM0612416C	PPEM0612416C10N	
4	35 mm ²	24	6 mm ²	12	—	2.5 mm ²	PPEM066416C1	PPEM066416C20N	
4	35 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPEM066416C4	PPEM066416C30N	
4	35 mm ²	24	6 mm ²	12	2	2.5 mm ²	PPEM066416C5	PPEM066416C40N	
4	35 mm ²	24	6 mm ²	—	—	—	PPEM066416CG030	PPEM066416C50N	
4	35 mm ²	24	6 mm ²	12	—	2.5 mm ²	PPEM066416C1G030	PPEM066416C60N	
4	35 mm ²	24	6 mm ²	—	2	2.5 mm ²	PPEM066416C4G030	PPEM066416C70N	
4	35 mm ²	24	6 mm ²	12	2	2.5 mm ²	PPEM066416C5G030	PPEM066416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPEM1224216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

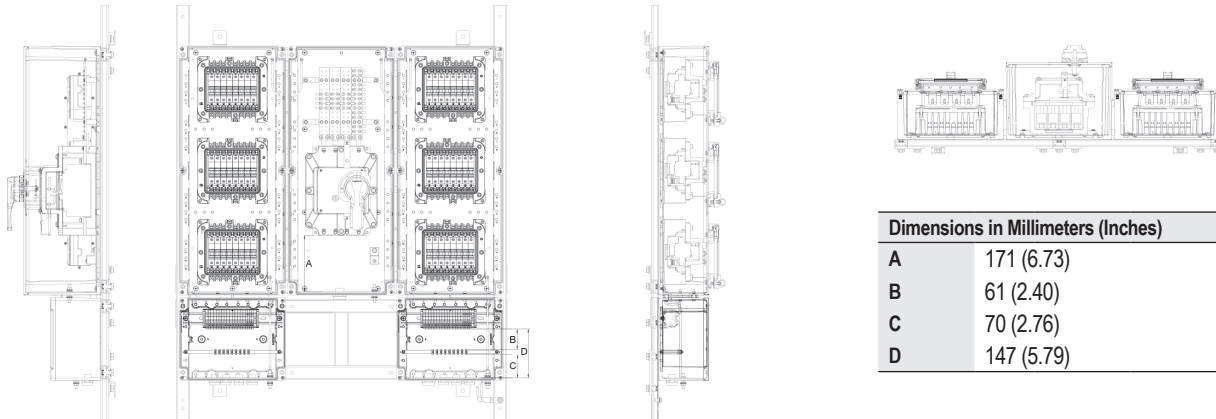
Stainless Steel Panel Arrangement E

Left Internal View

Front Internal View

Right Internal View

Top Internal View



Dimensions in Millimeters (Inches)	
A	171 (6.73)
B	61 (2.40)
C	70 (2.76)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries			Non-Armored Entries					
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	24	4 x 200 Amp	M63	24	M20	M63	24	M20	—	—
2-Poles 16 Amp	—	X	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	—	—	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
2-Poles 16 Amp	—	X	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	X	—	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	—	—
2-Poles 16 Amp	X	X	—	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
2-Poles 16 Amp	X	—	X	12	4 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
2-Poles 16 Amp	X	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	—	—	—	12	3 x 125 Amp	M40	12	M20	M40	12	M20	—	—
3-Poles 16 Amp	—	X	—	12	3 x 125 Amp	M40	12	M20	M40	12	M20	M32	M32
3-Poles 16 Amp	—	—	X	12	3 x 125 Amp	M40	12	M20	M40	12	M20	M20	M25
3-Poles 16 Amp	—	X	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	X	—	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	—	—
3-Poles 16 Amp	X	X	—	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
3-Poles 16 Amp	X	—	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
3-Poles 16 Amp	X	X	X	6	3 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	—	—	—	12	4 x 63 Amp	M32	12	M20	M40	12	M20	—	—
4-Poles 16 Amp	—	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	—	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
4-Poles 16 Amp	—	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	X	—	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	—	—
4-Poles 16 Amp	X	X	—	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25
4-Poles 16 Amp	X	—	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M20	M25
4-Poles 16 Amp	X	X	X	6	4 x 63 Amp	M32	6	M20	M40	6	M20	M25	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement E

Technical Information

Panel E Size	1080 x 990 x 230 mm		
Panel Weight	145 kg (320 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415		
Wiring	See Wiring Diagram Table		
	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑧
Mains	200 A	25	20
Bus-bar	250 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	200 A, 3 Ph, 5 W	20	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	120 mm ²	48	6 mm ²	—	—	—	PSEM1624216C	PSEM1624216C10N	
4	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PSEM1212216C1	PSEM1212216C20N	
4	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSEM1212216C4	PSEM1212216C30N	
4	50 mm ²	24	6 mm ²	24	2	2.5 mm ²	PSEM1212216C5	PSEM1212216C40N	
4	50 mm ²	24	6 mm ²	—	—	—	PSEM1212216CG030	PSEM1212216C50N	
4	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PSEM1212216C1G030	PSEM1212216C60N	
4	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSEM1212216C4G030	PSEM1212216C70N	
4	35 mm ²	12	6 mm ²	12	2	2.5 mm ²	PSEM066216C5G030	PSEM066216C80N	
3	50 mm ²	24	6 mm ²	—	—	—	PSEM1112316C	PSEM1112316C10N	
3	50 mm ²	24	6 mm ²	24	—	2.5 mm ²	PSEM1112316C1	PSEM1112316C20N	
3	50 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSEM1112316C4	PSEM1112316C30N	
3	35 mm ²	18	6 mm ²	12	2	2.5 mm ²	PSEM056316C5	PSEM056316C40N	
3	35 mm ²	18	6 mm ²	—	—	—	PSEM056316CG030	PSEM056316C50N	
3	35 mm ²	18	6 mm ²	12	—	2.5 mm ²	PSEM056316C1G030	PSEM056316C60N	
3	35 mm ²	18	6 mm ²	—	2	2.5 mm ²	PSEM056316C4G030	PSEM056316C70N	
3	35 mm ²	18	6 mm ²	12	2	2.5 mm ²	PSEM056316C5G030	PSEM056316C80N	
4	35 mm ²	48	6 mm ²	—	—	—	PSEM0612416C	PSEM0612416C10N	
4	35 mm ²	24	6 mm ²	12	—	2.5 mm ²	PSEM066416C1	PSEM066416C20N	
4	35 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSEM066416C4	PSEM066416C30N	
4	35 mm ²	24	6 mm ²	12	2	2.5 mm ²	PSEM066416C5	PSEM066416C40N	
4	35 mm ²	24	6 mm ²	—	—	—	PSEM066416CG030	PSEM066416C50N	
4	35 mm ²	24	6 mm ²	12	—	2.5 mm ²	PSEM066416C1G030	PSEM066416C60N	
4	35 mm ²	24	6 mm ²	—	2	2.5 mm ²	PSEM066416C4G030	PSEM066416C70N	
4	35 mm ²	24	6 mm ²	12	2	2.5 mm ²	PSEM066416C5G030	PSEM066416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number; example: PPEM1224216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

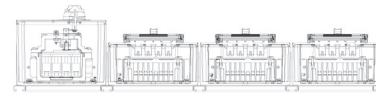
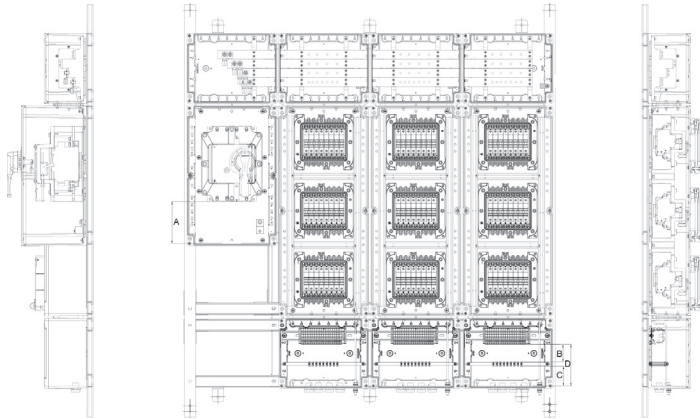
Fiberglass Reinforced Polyester (FRP) Panel Arrangement F

Left Internal View

Front Internal View

Right Internal View

Top Internal View



Dimensions in Millimeters (Inches)

A	150 (5.91)
B	61 (2.40)
C	40 (1.57)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	36	4 x 250 Amp	M63	36	M20	M63	36	M20	—	—
2-Poles 16 Amp	—	X	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	—	—	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
2-Poles 16 Amp	—	X	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	X	—	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	—	—
2-Poles 16 Amp	X	X	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	X	—	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
2-Poles 16 Amp	X	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
3-Poles 16 Amp	—	—	—	18	3 x 200 Amp	M63	18	M20	M63	18	M20	—	—
3-Poles 16 Amp	—	X	—	18	3 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
3-Poles 16 Amp	—	—	X	18	3 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
3-Poles 16 Amp	—	X	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
3-Poles 16 Amp	X	—	—	9	3 x 100 Amp	M40	9	M20	M40	9	M20	—	—
3-Poles 16 Amp	X	X	—	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
3-Poles 16 Amp	X	—	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
3-Poles 16 Amp	X	X	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
4-Poles 16 Amp	—	—	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	—	—
4-Poles 16 Amp	—	X	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
4-Poles 16 Amp	—	—	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
4-Poles 16 Amp	—	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
4-Poles 16 Amp	X	—	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	—	—
4-Poles 16 Amp	X	X	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
4-Poles 16 Amp	X	—	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
4-Poles 16 Amp	X	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) Panel Arrangement F

Technical Information

Panel F Size	1250 x 1280 x 230 mm
Panel Weight	200 kg (441 lb)
Max. No. of Circuits	See Panel Arrangement Size Selection Table
Voltage	220-240/380-415
Wiring	See Wiring Diagram Table

	Breaking Capacity in kA		
	Ratings in Amps	380/415 V	440 V ⑥
Mains	250 A	25	20
Bus-bar	250 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦	6 to 63 A	10	6
Panel Arrangement	250 A, 3 Ph, 5 W	20	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		“NC” Fault		Non-Armored ⑥	
				Qty ④	Qty ⑤	Auxiliary	Complete Catalog No	Ordering Catalog No	
4	120 mm ²	72	6 mm ²	—	—	—	PPFM1636216C	PPFM1636216C10N	
4	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PPFM1618216C1	PPFM1618216C20N	
4	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PPFM1618216C4	PPFM1618216C30N	
4	120 mm ²	36	6 mm ²	36	2	2.5 mm ²	PPFM1618216C5	PPFM1618216C40N	
4	120 mm ²	36	6 mm ²	—	—	—	PPFM1618216CG030	PPFM1618216C50N	
4	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PPFM1618216C1G030	PPFM1618216C60N	
4	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PPFM1618216C4G030	PPFM1618216C70N	
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PPFM109216C5G030	PPFM109216C80N	
3	120 mm ²	36	6 mm ²	—	—	—	PPFM1518316C	PPFM1518316C10N	
3	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PPFM1518316C1	PPFM1518316C20N	
3	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PPFM1518316C4	PPFM1518316C30N	
3	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PPFM099316C5	PPFM099316C40N	
3	50 mm ²	18	6 mm ²	—	—	—	PPFM099316CG030	PPFM099316C50N	
3	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PPFM099316C1G030	PPFM099316C60N	
3	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PPFM099316C4G030	PPFM099316C70N	
3	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PPFM099316C5G030	PPFM099316C80N	
4	120 mm ²	36	6 mm ²	—	—	—	PPFM1618416C	PPFM1618416C10N	
4	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PPFM109416C1	PPFM109416C20N	
4	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PPFM109416C4	PPFM109416C30N	
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PPFM109416C5	PPFM109416C40N	
4	50 mm ²	18	6 mm ²	—	—	—	PPFM109416CG030	PPFM109416C50N	
4	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PPFM109416C1G030	PPFM109416C60N	
4	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PPFM109416C4G030	PPFM109416C70N	
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PPFM109416C5G030	PPFM109416C80N	

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number, example: PPFM1436216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

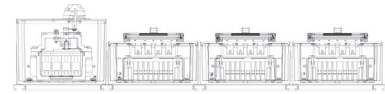
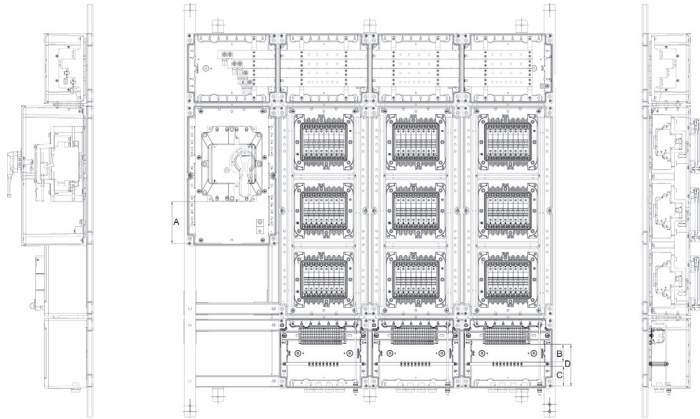
Stainless Steel Panel Arrangement F

Left Internal View

Front Internal View

Right Internal View

Top Internal View



Dimensions in Millimeters (Inches)	
A	150 (5.91)
B	61 (2.40)
C	40 (1.57)
D	147 (5.79)

Breaker Curve C	Branch Breakers				Armored Entries				Non-Armored Entries				
	30mA GFI	1 Position Contact "NO"	1 Trip Contact "NC"	Circuit Breaker Qty	Main Breaker Size	Incoming Size, Qty 1	Outgoing Qty	Outgoing Size	Incoming Size	Outgoing Qty	Outgoing Size, Qty 1	Armored Auxiliary, Qty 1	Non-Armored Auxiliary, Qty 1
2-Poles 16 Amp	—	—	—	36	4 x 250 Amp	M63	36	M20	M63	36	M20	—	—
2-Poles 16 Amp	—	X	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	—	—	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
2-Poles 16 Amp	—	X	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	X	—	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	—	—
2-Poles 16 Amp	X	X	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
2-Poles 16 Amp	X	—	X	18	4 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
2-Poles 16 Amp	X	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
3-Poles 16 Amp	—	—	—	18	3 x 200 Amp	M63	18	M20	M63	18	M20	—	—
3-Poles 16 Amp	—	X	—	18	3 x 200 Amp	M63	18	M20	M63	18	M20	M32	M40
3-Poles 16 Amp	—	—	X	18	3 x 200 Amp	M63	18	M20	M63	18	M20	M20	M25
3-Poles 16 Amp	—	X	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
3-Poles 16 Amp	X	—	—	9	3 x 100 Amp	M40	9	M20	M40	9	M20	—	—
3-Poles 16 Amp	X	X	—	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
3-Poles 16 Amp	X	—	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
3-Poles 16 Amp	X	X	X	9	3 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
4-Poles 16 Amp	—	—	—	18	4 x 200 Amp	M63	18	M20	M63	18	M20	—	—
4-Poles 16 Amp	—	X	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
4-Poles 16 Amp	—	—	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
4-Poles 16 Amp	—	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25
4-Poles 16 Amp	X	—	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	—	—
4-Poles 16 Amp	X	X	—	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M25	M25
4-Poles 16 Amp	X	—	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M20	M25
4-Poles 16 Amp	X	X	X	9	4 x 100 Amp	M40	9	M20	M40	9	M20	M32	M25

Distribution Equipment

IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel Panel Arrangement F

Technical Information

Panel F Size	1370 x 1320 x 230 mm		
Panel Weight	200 kg (441 lb)		
Max. No. of Circuits	See Panel Arrangement Size Selection Table		
Voltage	220-240/380-415		
Wiring	See Wiring Diagram Table		
Breaking Capacity in kA			
	Ratings in Amps	380/415 V	440 V ⑧
Mains	250 A	25	20
Bus-bar	250 A	50	50
Branch Breakers ⑦	0.5 to 4 A	50	25
Branch Breakers ⑦ ①	6 to 63 A	10	6
Panel Arrangement	250 A, 3 Ph, 5 W	20	-

Terminals ①

Qty ②	Incoming	Qty ③	Outgoing	“NO” Position		Auxiliary	Non-Armored ⑥	
				Qty ④	Qty ⑤		Complete Catalog No	Ordering Catalog No
4	120 mm ²	72	6 mm ²	—	—	—	PSFM1836216C	PSFM1836216C10N
4	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PSFM1618216C1	PSFM1618216C20N
4	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PSFM1618216C4	PSFM1618216C30N
4	120 mm ²	36	6 mm ²	36	2	2.5 mm ²	PSFM1618216C5	PSFM1618216C40N
4	120 mm ²	36	6 mm ²	—	—	—	PSFM1618216CG030	PSFM1618216C50N
4	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PSFM1618216C1G030	PSFM1618216C60N
4	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PSFM1618216C4G030	PSFM1618216C70N
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PSFM109216C5G030	PSFM109216C80N
3	120 mm ²	36	6 mm ²	—	—	—	PSFM1518316C	PSFM1518316C10N
3	120 mm ²	36	6 mm ²	36	—	2.5 mm ²	PSFM1518316C1	PSFM1518316C20N
3	120 mm ²	36	6 mm ²	—	2	2.5 mm ²	PSFM1518316C4	PSFM1518316C30N
3	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PSFM099316C5	PSFM099316C40N
3	50 mm ²	18	6 mm ²	—	—	—	PSFM099316CG030	PSFM099316C50N
3	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PSFM099316C1G030	PSFM099316C60N
3	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PSFM099316C4G030	PSFM099316C70N
3	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PSFM099316C5G030	PSFM099316C80N
4	120 mm ²	36	6 mm ²	—	—	—	PSFM1618416C	PSFM1618416C10N
4	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PSFM109416C1	PSFM109416C20N
4	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PSFM109416C4	PSFM109416C30N
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PSFM109416C5	PSFM109416C40N
4	50 mm ²	18	6 mm ²	—	—	—	PSFM109416CG030	PSFM109416C50N
4	50 mm ²	18	6 mm ²	18	—	2.5 mm ²	PSFM109416C1G030	PSFM109416C60N
4	50 mm ²	18	6 mm ²	—	2	2.5 mm ²	PSFM109416C4G030	PSFM109416C70N
4	50 mm ²	18	6 mm ²	18	2	2.5 mm ²	PSFM109416C5G030	PSFM109416C80N

① Ground bar supplied for each connection.

② Incoming cables terminate directly to the main breaker.

③ Outgoing terminal blocks for branch breakers (provided).

④ Each “NO” position contact are individually terminate on the terminal blocks and in pairs.

⑤ All “NC” trip contacts must be wired in series and terminated on terminal blocks as one pair only.

⑥ For armored version, replace the letter A with the letter N, in the last position of the Ordering Catalog Number, example: PPFM1436216C10A.

⑦ For higher kA rating please consult your local sales representative.

⑧ Without GFI.

IEC PlexPower™ Factory Sealed Panelboard

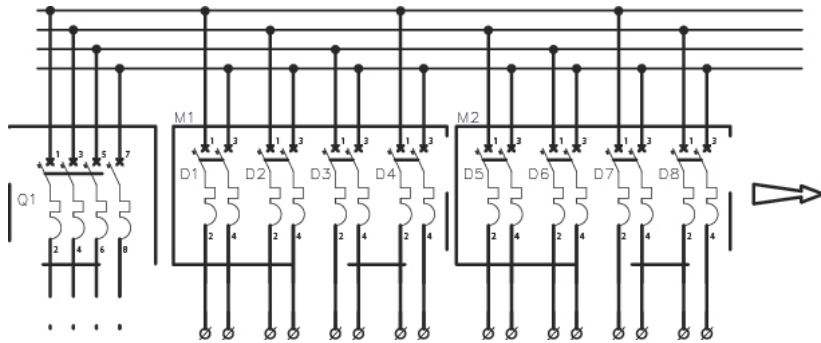
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

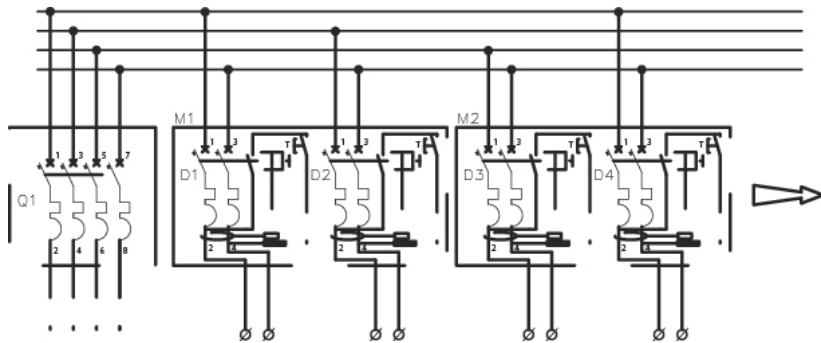
Wiring Diagrams — Panel Arrangements B, C, D, E, F — For Panel Arrangement A, Remove Main Breaker from Wiring Diagrams

Q1: Main Breaker
M1-M8: Module Housing
D1-▲: MCB

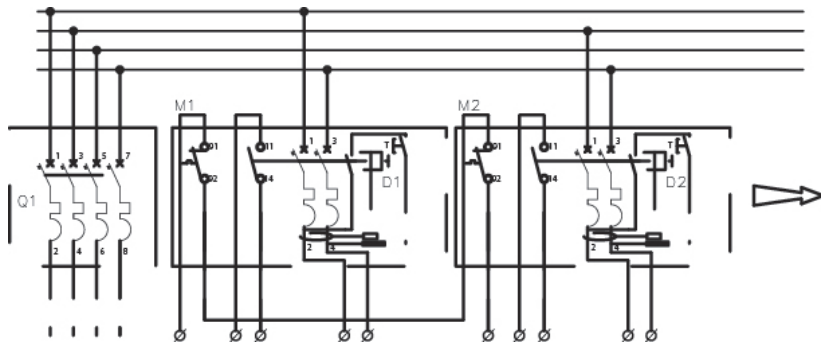
2-Pole



2-Pole + GFI



2-Pole + GFI + AUX NO + AUX NC



▲ Number of branch circuit breakers will depend on the number of module housing.

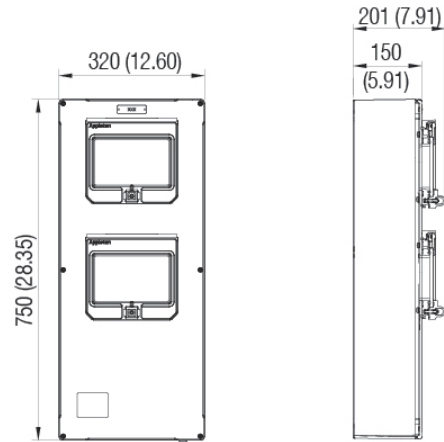
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

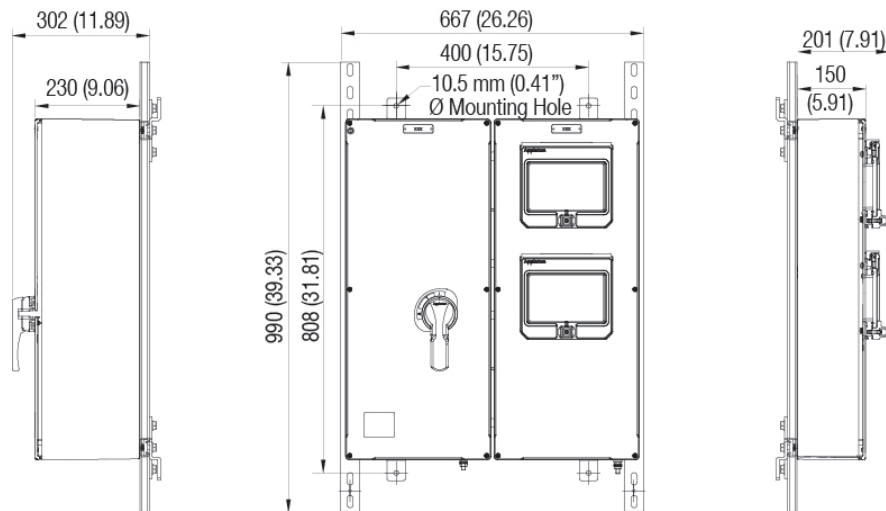
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A



Panel Arrangement B



Distribution Equipment

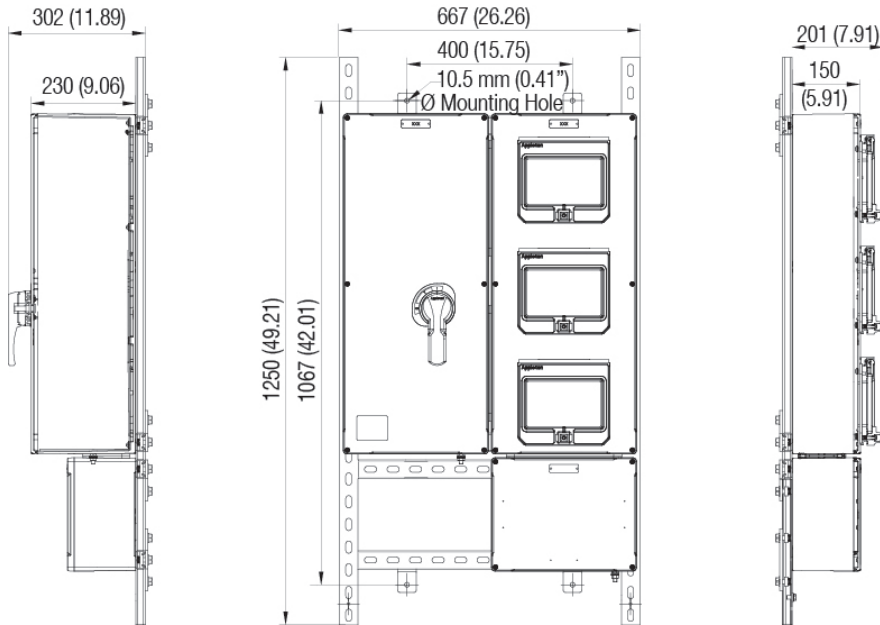
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

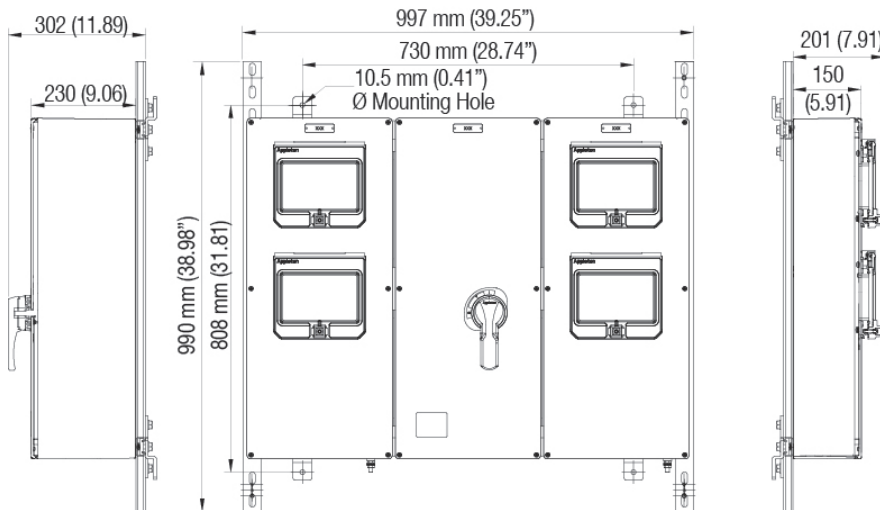
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement C



Panel Arrangement D



Distribution Equipment

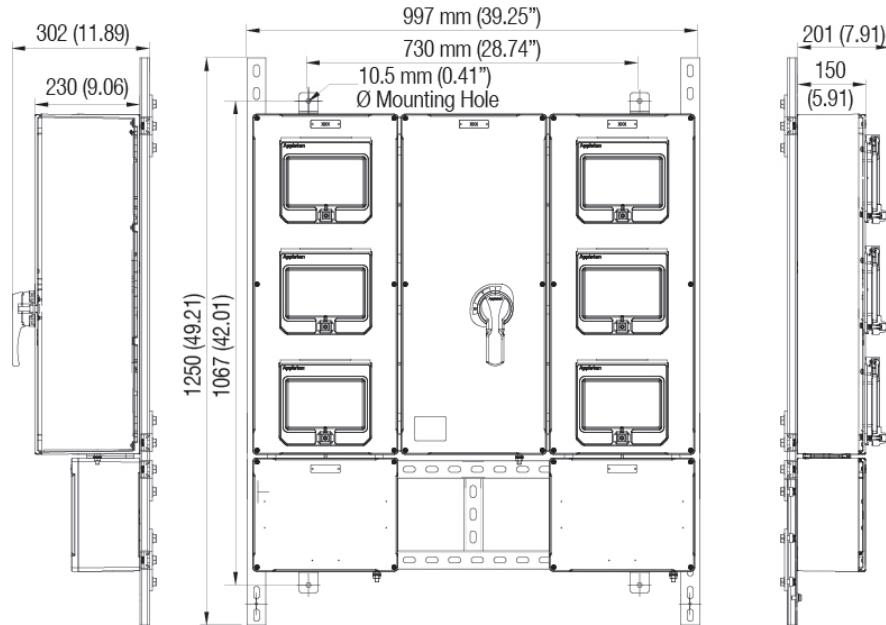
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

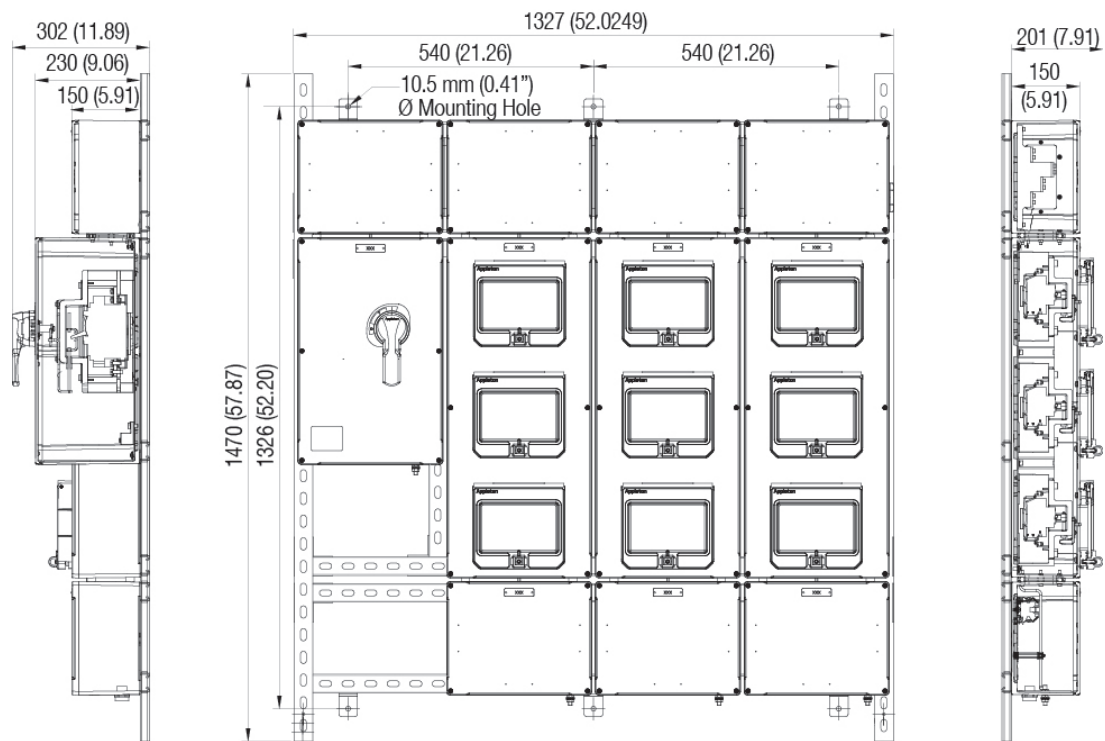
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Fiberglass Reinforced Polyester (FRP) — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement E



Panel Arrangement F



Distribution Equipment

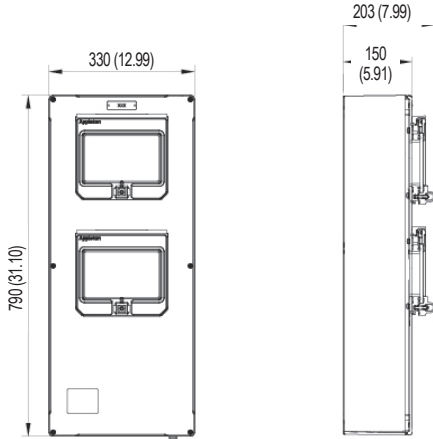
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

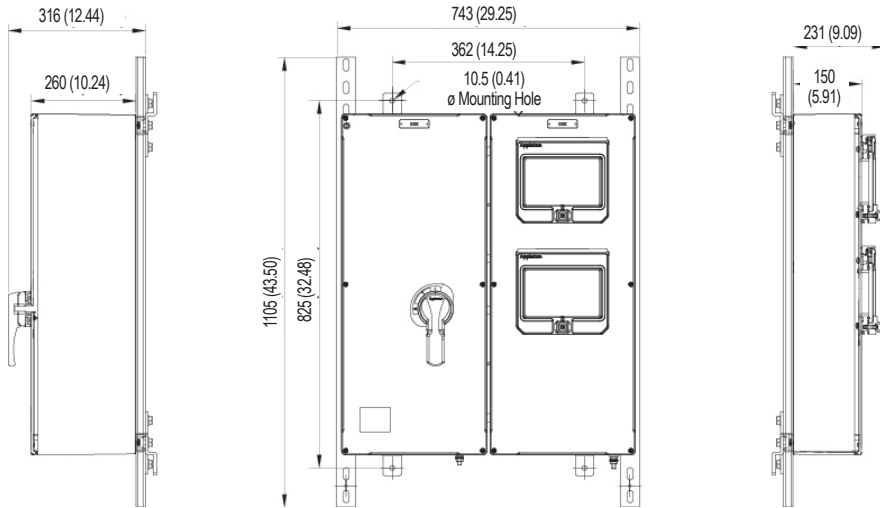
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A



Panel Arrangement B



Distribution Equipment

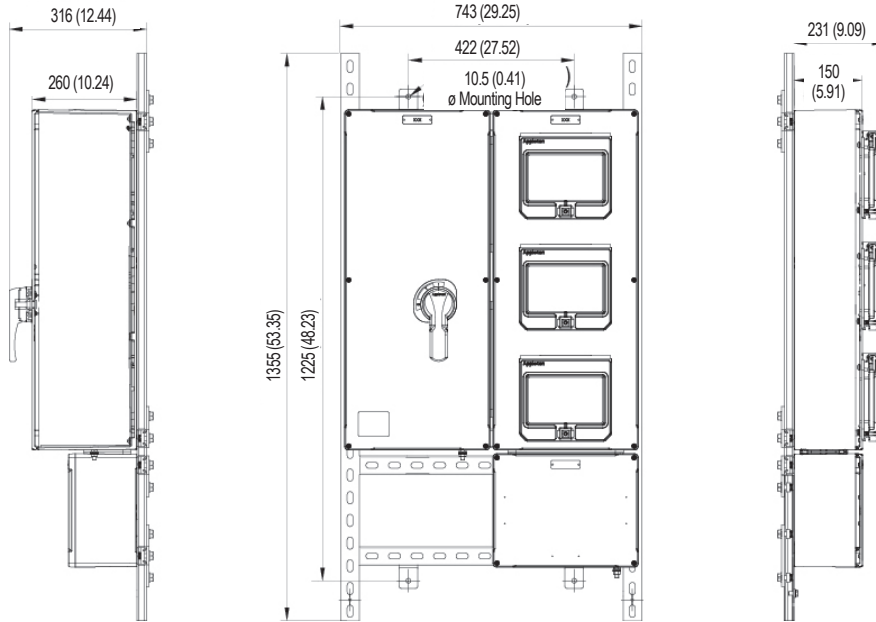
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

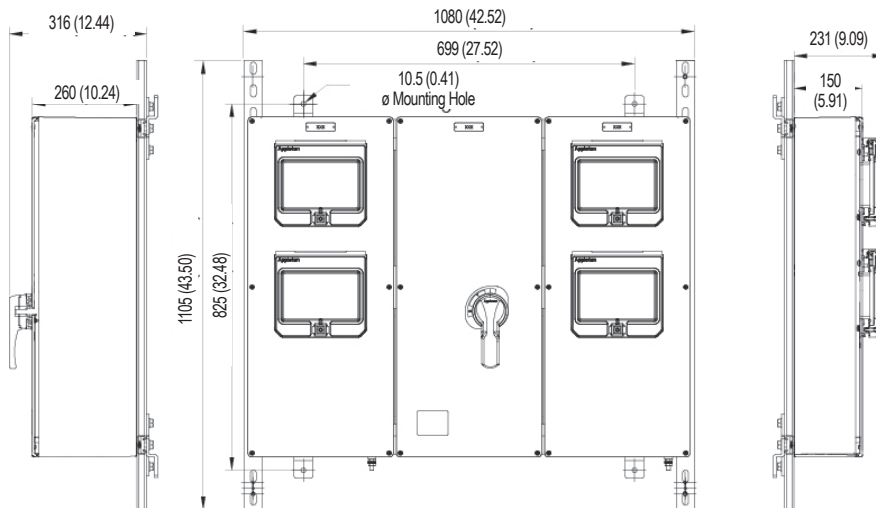
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement C



Panel Arrangement D



Distribution Equipment

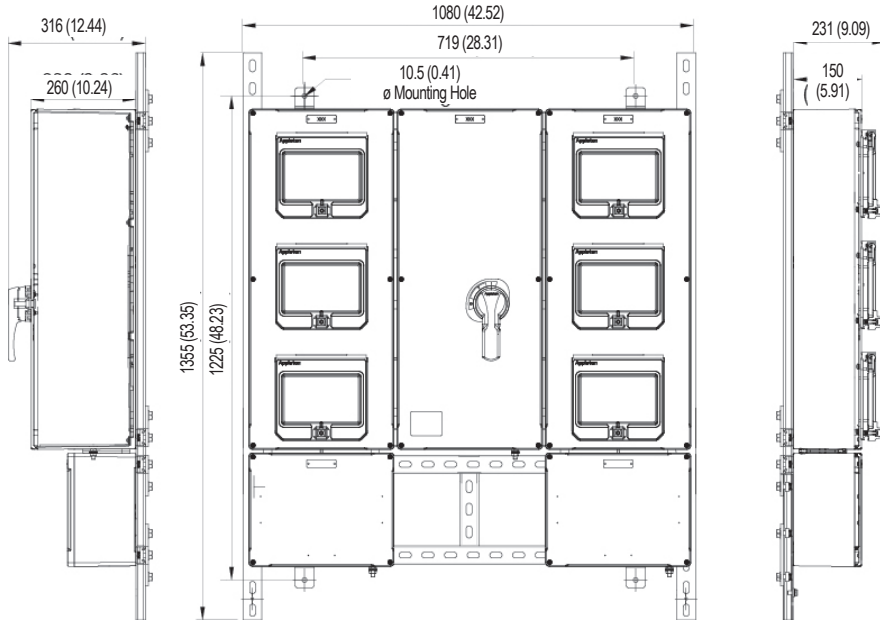
IEC PlexPower™ Factory Sealed Panelboard

Increased Safety

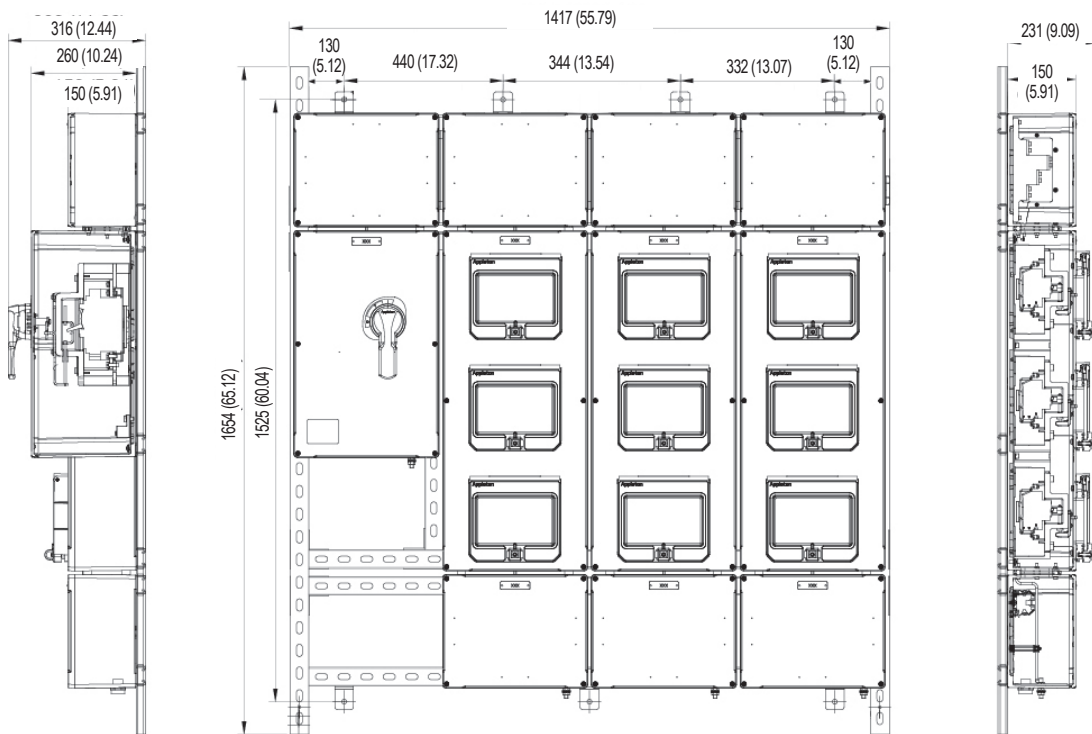
ATEX/IECEX: Zones 1 and 2 – 21 and 22

Stainless Steel Standard — Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement E



Panel Arrangement F



Distribution Equipment

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

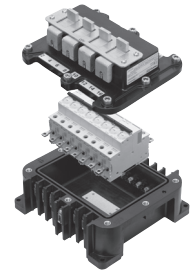
- The AGPPX and ASPPX Series PlexPower™ panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
 - Petroleum plants
 - Chemical plants
 - Refineries
 - Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on lighting, heat trace and power circuits.

Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- Limitless flexibility through horizontal and vertical coupling options.
- The PlexPower™ factory sealed panelboard features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Supplied as standard:
 - Bottom entries with brass earth plate
 - Pre-drilled supplied with non Ex certified temporary plastic plugs
 - Standard hard wired, copper cables
 - Color coded wiring for phases; neutral (blue) and ground (yellow/green)
 - Internal actuators
 - Internal wiring duct
 - Phenolic nameplate (specify legend)
- Optional gland plate at the bottom of enclosure can be easily field punched or drilled for cable or conduit entries. See options ①.
- 1 circuit to 72 circuit panelboard configurations are standard, with or without main breaker.
- Schneider ■ breakers are supplied as standard, making replacements readily available.
- PlexPower™ breakers accommodate ABB ☼ breakers. For a custom panelboard designed with ABB breakers, contact your local sales representative.
- Branch circuit breakers available in 1-, 2- 3- and 4-pole. Current ratings on branch breakers:
 - 1-pole: 120, 240 Volts, 63 Amps maximum.
 - 2-, 3- and 4-pole: 240 and 415 Volts, 63 Amps maximum.
- Branch breakers are labeled with numbers:
 - Odd numbers for line side
 - Even numbers for load side.
 - Labeled with inside breaker details
- Main circuit breaker:
 - 40 to 200 Amps, 2-, 3- or 4-pole.
- Branch and main breakers can be padlocked in either the “On” or “Off” position.
- Breaker modules supplied with captive bolts.
- Ground bar provided as standard.
- External ground lug provided as standard.
- 240/415 Volt breaker module with space for 8 Poles.
- 600 Volt Main Breaker MCCB Module suitable for 200 A MCC.



AGPPX Panelboard



8 M Module — Exploded View

- Ambient temperature ratings:
 - Standard model: -20 °C to +55 °C (-29 °F to +131 °F).
 - Other ambient temperatures available, contact your local sales representative

Standard Materials

- Enclosure: glass reinforced polyester (GRP) or stainless steel
- Hardware: stainless steel
- Bus bar: hard drawn copper
- Chassis: MS painted type for wall mounting use

Options

- Alternate frame (structure) available for floor mounting or self standing with and without canopy. Contact your local sales representative for additional information.

ATEX/IECEx Certifications and Compliances

- Certification Type: AGPPX / ASPPX
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/EC: Ⓢ IIG
 - Equipment Protection Level: EPL Gb
 - Type of Protection: Ex db eb IIB+H2 / IIC
 - Temperature Class: T5 for Ta ≤ +40 °C (+104 °F) and T4 for Ta ≤ +55 °C (+131 °F)
 - Dusts: Zones 21 and 22
 - Conforming to ATEX 94/9/EC: Ⓢ IIG
 - Equipment Protection Level: EPL Db
 - Type of Protection: Ex tb IIIC
 - Temperature Class: +95 °C (+194 °F) for Ta ≤ +40 °C (+104 °F) and +130 °C (+266 °F) for Ta ≤ +55 °C (+131 °F)
- Ambient Temperatures: -35 °C (-31 °F) to +55 °C (+131 °F)
- ATEX Certificate: ExVeritas 20 ATEX 0657 X
- IECEx Certificate: IECEx EXV 19.0054X
- Ingress Protection (solid and liquid): IP66
- Ex Standards: EN/IEC 60079-0; 60079-1; 60079-7; 60079-31
- Other Standards: EN/IEC 60529 (IP); 62262 (IK)

■ Schneider is a registered trademark of Schneider Electric.

☼ ABB Asea Brown Boveri Ltd is registered with the commercial register of Zurich, Switzerland.

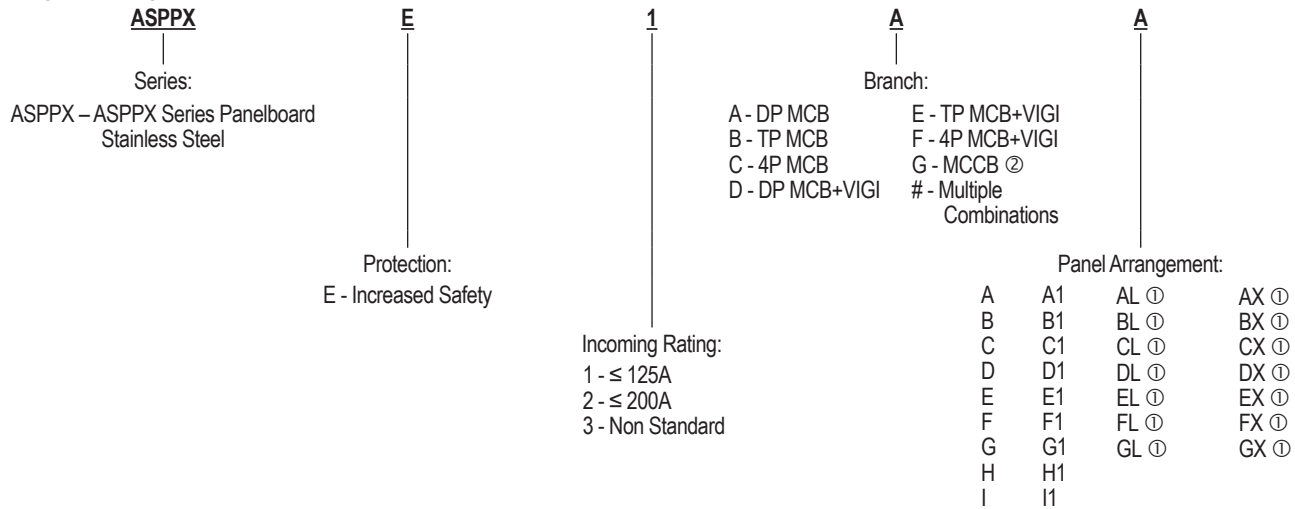
① Applicable for ASPPX Series only.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

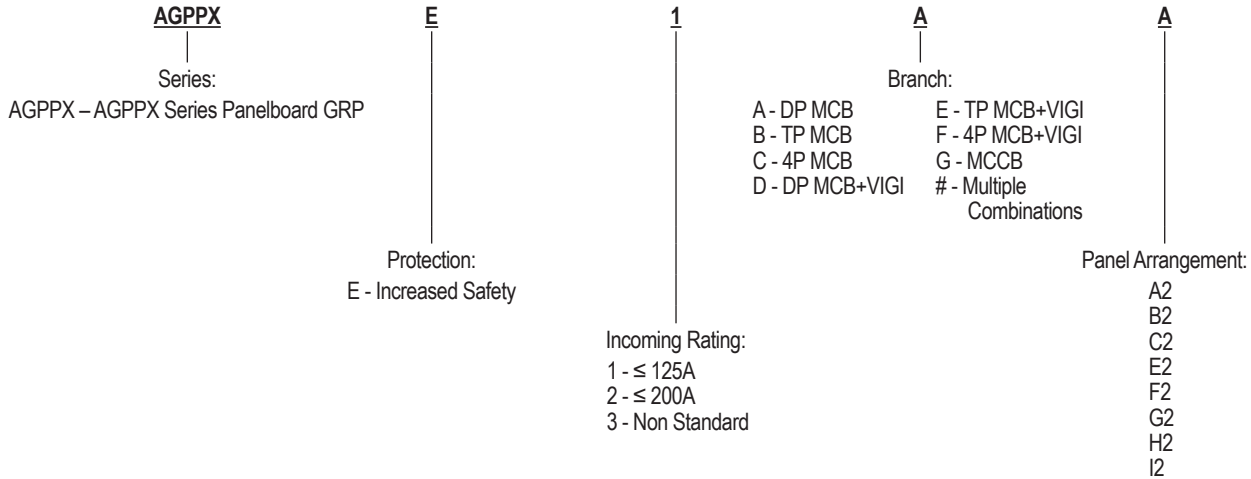
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — ASPPX Series Stainless Steel PlexPower™ Distribution Panelboard



Catalog Numbering Guide — AGPPX Series Glass Reinforced Polyester PlexPower™ Distribution Panelboard



Selection Guide

Select the material:	AGPPX / ASPPX
Protection by Default:	E
Select the Incoming Rating:	1/2/3
Select the Type of Breaker if same type:	A/B/C/D/E/F/G / # for multiple options
Select the Panel Arrangement:	A...1 / A1...11 / AL...GL ① / AX...GX ①

Each 8M Module Can Contain

8 x SP MCB	2 x 4P MCB
4 x SP MCB + Aux Contact (1)	1 x 4P MCB + Aux Contact (1)
4 x DP MCB	2 x DP MCB + GFI
2 x DP MCB + Aux Contact (1)	2 x DP MCB + GFI + Aux Contact (1)
2 x TP MCB	1 x TP MCB + GFI
2 x TP MCB + Aux Contact (1)	1 x TP MCB + GFI + Aux Contact (1)
1 x 4P MCB + GFI + Aux Contact (1)	1 x 4P MCB + GFI

① For larger panel arrangements AL through GL and AX through GX, contact your local sales representative.

② For high incoming current and panel with MCCB only options, contact your local sales representative.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

MCCB and MCB Specifications — Breakers

Breaking Capacity ①

Circuit Breakers	NSX 100		NSX 160	NSX 250	
Breaking Capacity Levels	B F N H S L	R HB1 HB2	B F N H S L	B F N H S L	R HB1 HB2
Rated Current (A) In	100	100	160	200	200
Number of Poles	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4

iC60N Circuit Breaker — Curve B,C,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	50 kA	50 kA	25 kA
	6 to 63A	36 kA	20 kA	10 kA

Vigi iC60 Add-On Residual Current Devices (RCD or GFI) — Optional ①

Voltage rating (Ue): 230 - 240 V, 400 - 415 V
Operating frequency: 50/60 Hz

Poles	Amps	Voltage Use			
		10 mA	30 mA	300 mA	100 mA
2P	0.5 to 25A	X	X	X	X
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	X
3P	0.5 to 25A	—	X	X	—
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	—
4P	0.5 to 25A	—	X	X	X
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	X

iC60H Circuit Breaker — Curve C,B,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	100 kA	100 kA	70 kA
	6 to 25A	50 kA	25 kA	20 kA
	32/40A	36 kA	20 kA	15 kA
	50/63A	30 kA	15 kA	10 kA

iC60H Circuit Breaker — Curve B,C,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	70 kA	70 kA	50 kA
	6 to 63A	30 kA	15 kA	10 kA

① For the most current information visit our website at www.appleton.emerson.com. Contact your local sales representative for other brands of Breakers.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

MPCB Specifications —Starters

GV2 RT Motor Protection Circuit Breaker ①

Voltage	Standard power ratings of 3-phase motors (AC3)		Voltage Use		Reference
	400/415V kW	440V kW	Thermal Setting Range A	Magnetic Trip Setting A	
Motor Rating	0.09	0.09 0.12	0.25...0.40	8	GV2 RT 03
	0.12 0.18	0.18	0.40...0.63	13	GV2 RT 04
	0.25 0.37	0.25 0.37	0.63...1	22	GV2 RT 05
	0.37 0.55	0.37 0.55	1...1.6	33	GV2 RT 06
	0.75	0.75 1.1	1.6...2.5	51	GV2 RT 07
	1.1 1.5	1.5	2.5...4	78	GV2 RT 08
	2.2	2.2 3	4...6.3	138	GV2 RT 10
	3 4	4	6...10	200	GV2 RT 14
	5.5	5.5 7.5	9...14	280	GV2 RT 16
	7.5	7.5 9	13...18	400	GV2 RT 20
	9 11	11	17...23	400	GV2 RT 21

① For the most current information visit our website at www.appleton.emerson.com. Contact your local sales representative for other brands of Breakers.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

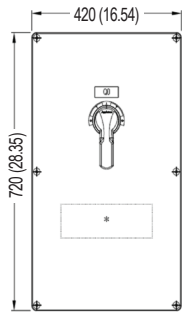
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

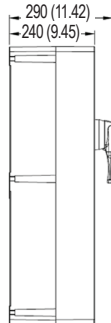
Glass Reinforced Polyester (GRP) Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A2

Front View

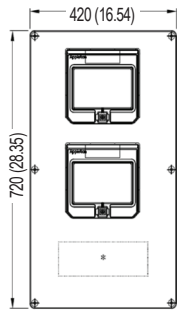


Side View

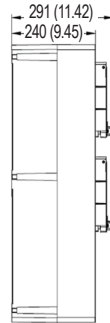


Panel Arrangement B2

Front View

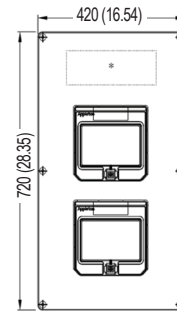


Side View

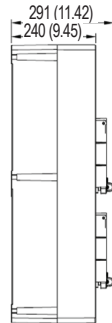


Panel Arrangement C2

Front View

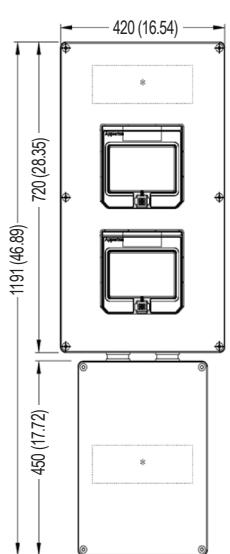


Side View

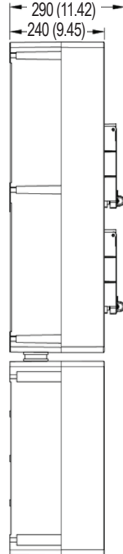


Panel Arrangement E2

Front View

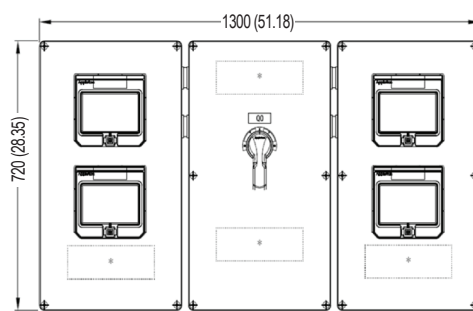


Side View

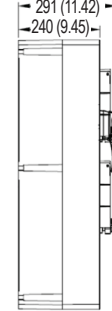


Panel Arrangement F2

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

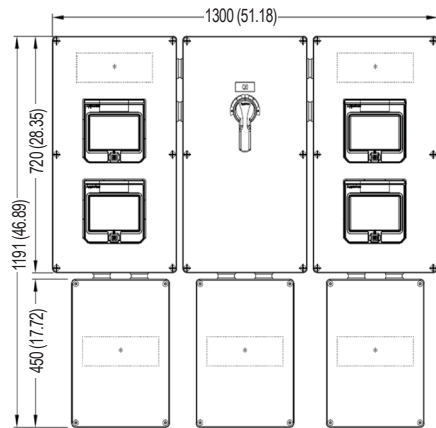
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

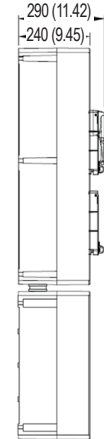
Glass Reinforced Polyester (GRP) —Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement G2

Front View

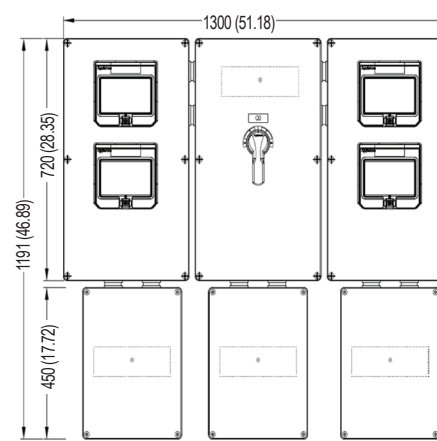


Side View

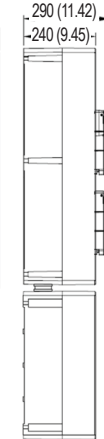


Panel Arrangement H2

Front View

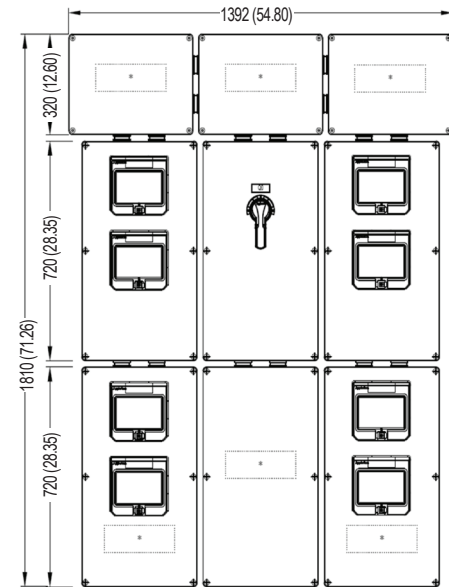


Side View

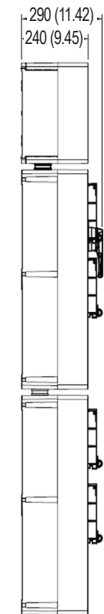


Panel Arrangement I2

Front View



Side View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

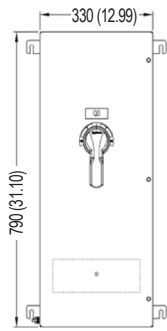
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A

Front View

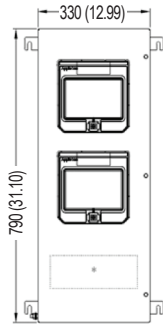


Side View

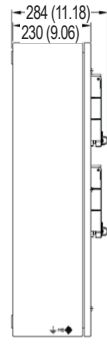


Panel Arrangement B

Front View

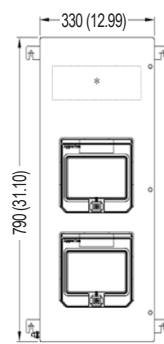


Side View



Panel Arrangement C

Front View

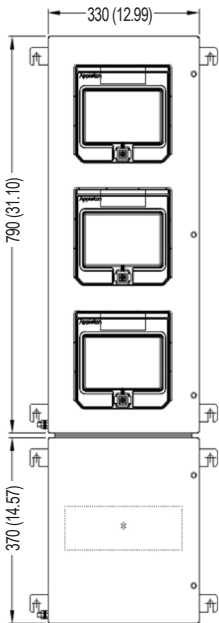


Side View

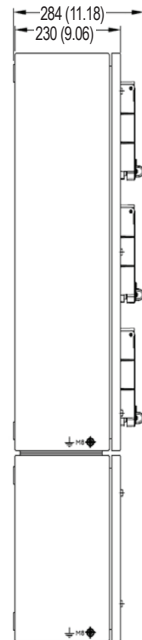


Panel Arrangement D

Front View

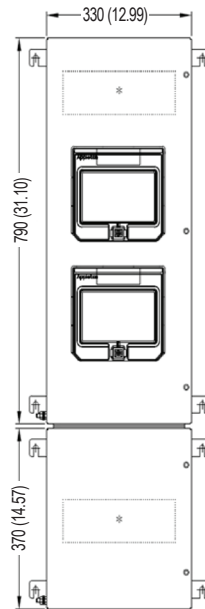


Side View

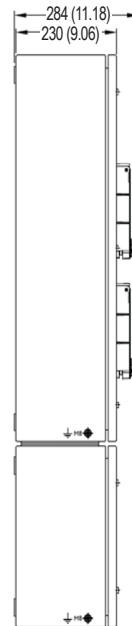


Panel Arrangement E

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

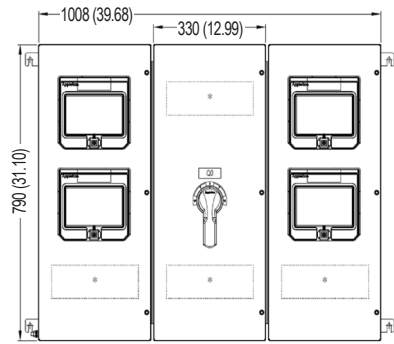
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

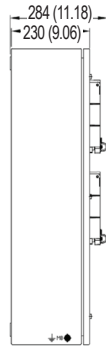
Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement F

Front View

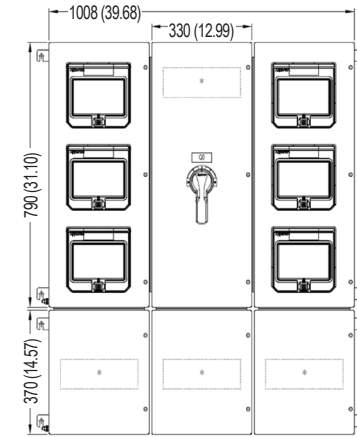


Side View

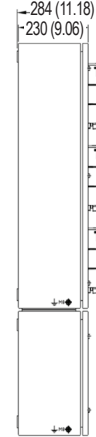


Panel Arrangement F

Front View

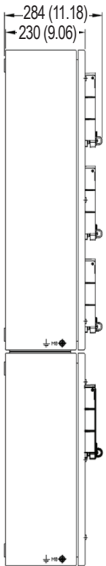
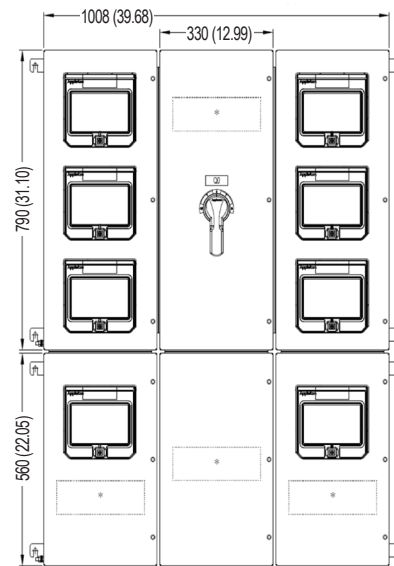


Side View



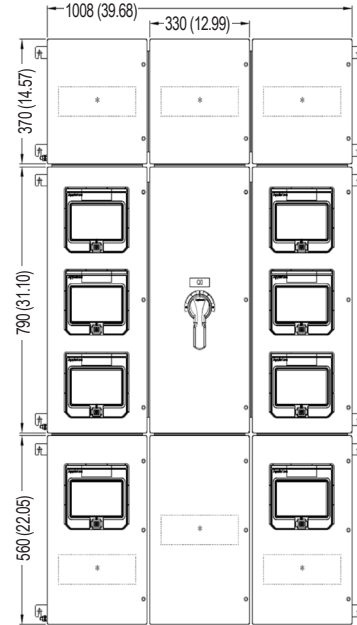
Panel Arrangement H

Front View



Panel Arrangement I

Front View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

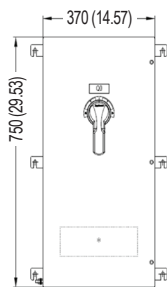
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

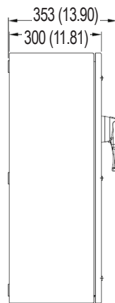
Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A1

Front View

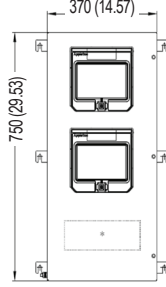


Side View

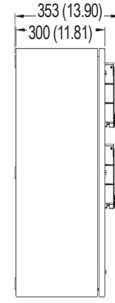


Panel Arrangement B1

Front View

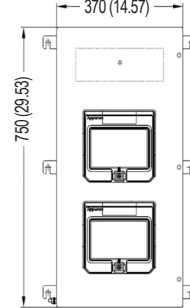


Side View

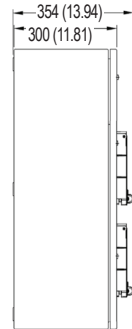


Panel Arrangement C1

Front View

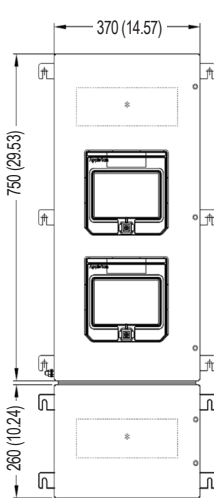


Side View

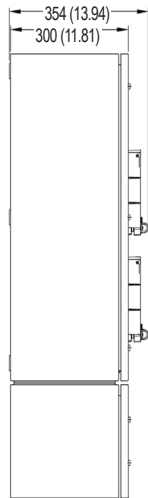


Panel Arrangement E1

Front View

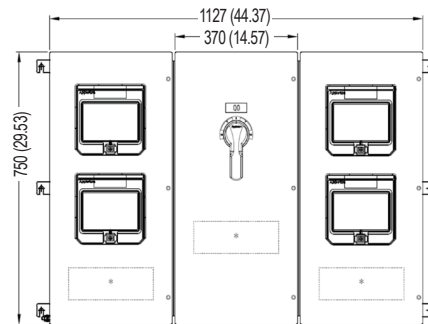


Side View

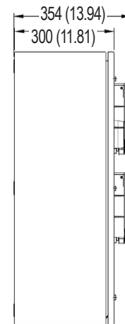


Panel Arrangement F1

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

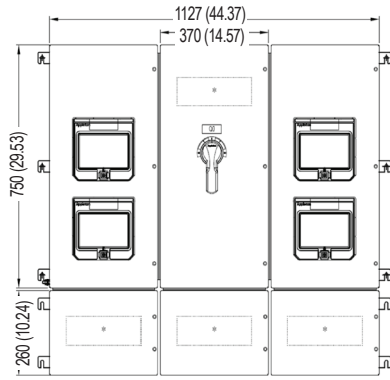
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

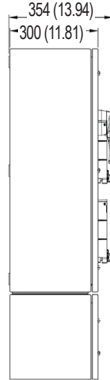
Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement G1

Front View

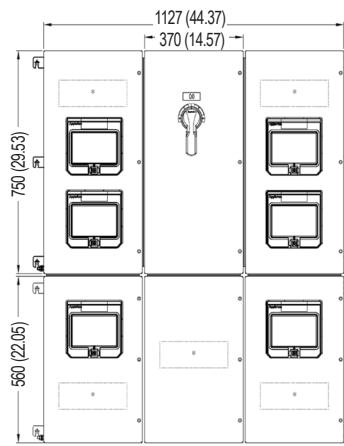


Side View

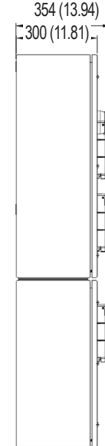


Panel Arrangement H1

Front View

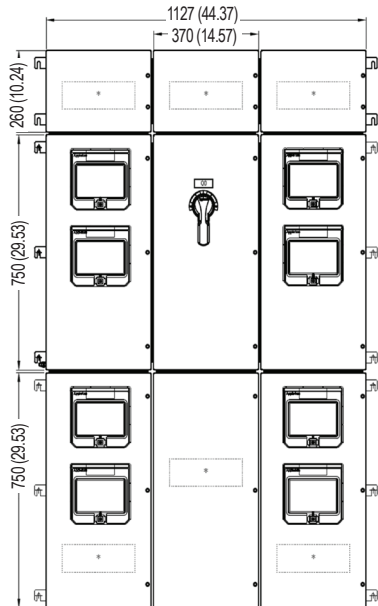


Side View

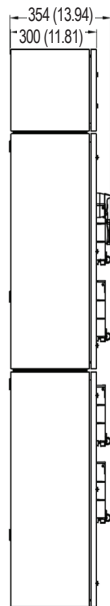


Panel Arrangement I1

Front View



Side View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.

PlexPower™ IEC Fiber Panelboard

Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- The PlexPower™ IEC Fiber Panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
 - Petroleum plants
 - Chemical plants
 - Refineries
 - Wastewater Treatment Plants
 - Paper and Pulp Industries
 - Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on applications where both power and communication wiring is required.

Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- The PlexPower Fiber Panelboard features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- PlexPower breakers accommodate off-the-shelf Schneider® breakers, making replacements readily available.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Standard models offer 8, 16 and 24 circuit panelboard configurations.
- Supplied as standard:
 - Bottom entries with brass earth plate
 - Pre-drilled supplied with non Ex certified temporary plastic plugs
 - Standard hard wired, copper cables
 - Color coded wiring for phases; neutral (blue) and ground (yellow/green)
 - Internal actuators with waterproof windows
 - Internal wiring duct
 - Ground bars
 - External/internal ground lug
 - Phenolic nameplate (specify legend)
- Standard configuration includes internal actuators.
- Breaker modules supplied with captive steel bolts.
- Branch circuits available in single pole.
 - 1-pole: 120, 240 Volts, 20 Amps maximum.
- Utilizes Belden* MIPP™ module and Telegartner STX module.
- Panelboard designed for -40 °C to +50 °C (-40 °F to +122 °F) with Telegartner STX module and, -20 °C to +50 °C (-4 °F to +122 °F) with Belden* MIPP™ module.

Standard Materials

- Enclosure: fiberglass reinforced polyester (FRP) or stainless steel
- Hardware: stainless steel
- Chassis: hot dip galvanized sheet steel for wall mounting use

ATEX/IECEx Certifications and Compliances

- Certification Type: PFPP
 - Gas, Zones 1 and 2:
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2G
 - Equipment Protection Level: EPL Gb
 - Type of Protection: Ex db eb op pr IIB+H2/IIC
 - Temperature Class: T6 to T4 for Ta = +50 °C (+122 °F)

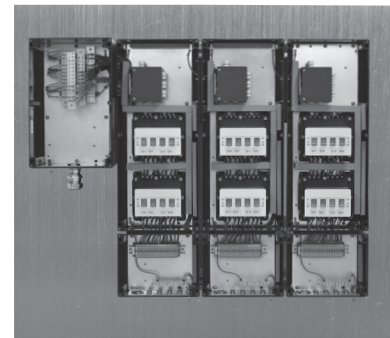
■ Schneider is a registered trademark of Schneider Electric.

◀ Cutler-Hammer is a registered trademark of Eaton Corporation.

* Belden is a registered trademark Belden Inc.



Fiber Panelboard



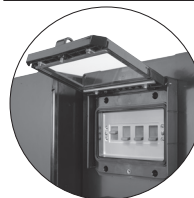
Bus Bar Panel with Main Breaker — Internal View

- Dusts, Zones 21 and 22:
 - Conforming to ATEX: Ⓢ II 2D
 - Equipment Protection Level: EPL Db
 - Type of Protection: Ex op pr tb IIIC
 - Surface Temperature: +57 °C to +62 °C for Ta = +50 °C (+135 °F to +144 °F for Ta = +122 °F)
 - Ambient Temperatures: standard model -25°C to +50°C
- ATEX Certificate: EPS 19 ATEX 1 114
- EC Declaration of Conformity: 50304
- IECEx Certificate: IECEx EPS 19.0054X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

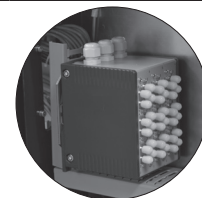
Related Products

- Recommended for use with the Appleton TC Cable Connector.
- PlexPower™ Factory Sealed Increased Safety Panelboards

Illustrated Features



Weatherproof Window



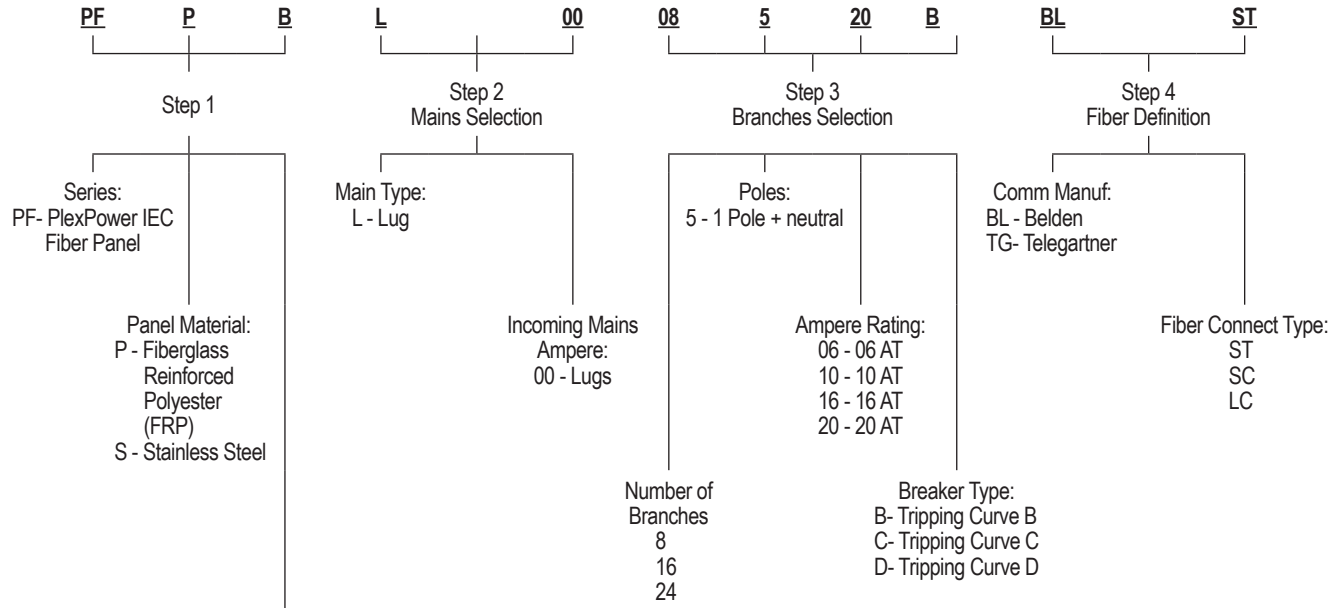
Fiber Patch Panel

PlexPower™ IEC Fiber Panelboard

Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide



Panel Size: Select B, E, F enclosure based on number of circuits

	B	E	F
Max. Circuits	8	16	24

Fiberglass Reinforced Polyester (FRP)

Abbreviated Standard Catalog Numbers	Description
PFP08520CBLST	Eight (8) (1P+N) 20A breakers with Belden patch panel
PFP16520CBLST	Sixteen (16) (1P+N) 20A breakers with Belden patch panel
PFP24520CBLST	Twenty-four (24) (1P+N) 20A breakers with Belden patch panel

Stainless Steel

Abbreviated Standard Catalog Numbers	Description
PFS08520CBLST	Eight (8) (1P+N) 20A breakers with Belden patch panel
PFS16520CBLST	Sixteen (16) (1P+N) 20A breakers with Belden patch panel
PFS24520CBLST	Twenty-four (24) (1P+N) 20A breakers with Belden patch panel

Distribution Equipment

PlexPower™ IEC Fiber Panelboard

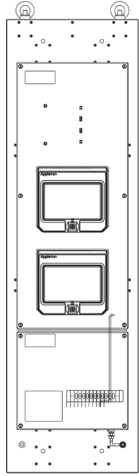
Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEx: Zones 1 and 2 – 21 and 22

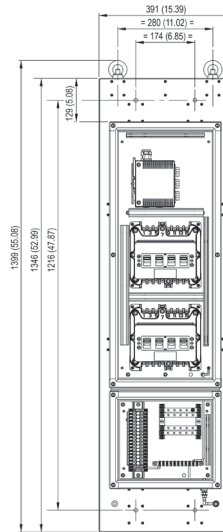
Dimensions in Millimeters (Inches)

8 Circuit

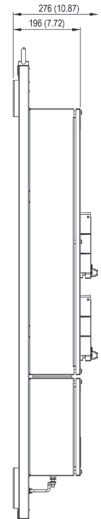
Front View



Internal View

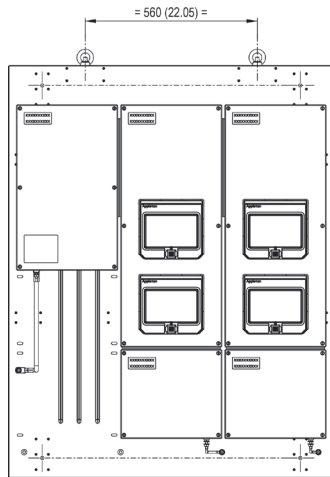


Side View

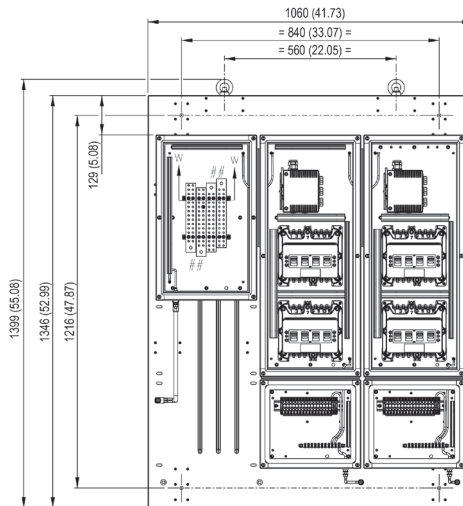


16 Circuit

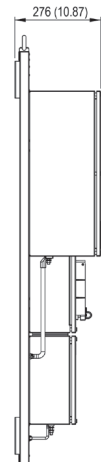
Front View



Internal View



Side View



Distribution Equipment

PlexPower™ IEC Fiber Panelboard

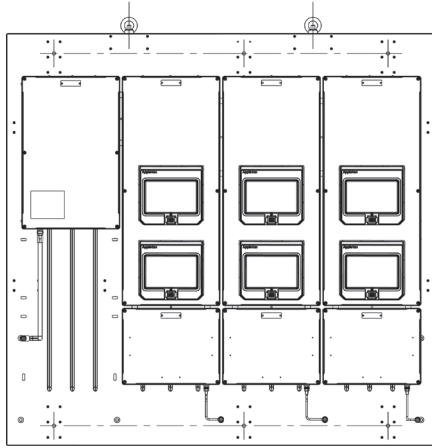
Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEx: Zones 1 and 2 – 21 and 22

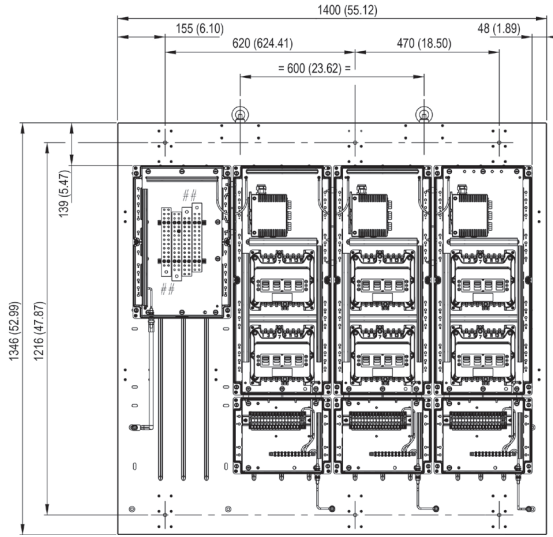
Dimensions in Millimeters (Inches)

24 Circuit

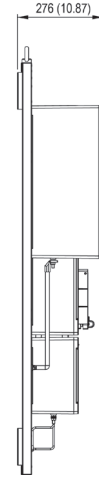
Front View



Internal View



Side View



Panel Size — Dimensions in Millimeters (Inches)

	B 8 Circuit	E 16 Circuit	24 Circuit
Fiberglass Reinforced Polyester (FRP)			
Length	1399 (55.1)	1399 (55.1)	1399 (55.1)
Width	391(15.4)	1060 (41.8)	1400 (55.1)
Depth	247 (9.8)	276 (10.9)	276 (10.9)
Stainless Steel			
Length	1399 (55.1)	1399 (55.1)	1399 (55.1)
Width	391(15.4)	1060 (41.8)	1400 (55.1)
Depth	247 (9.8)	276 (10.9)	276 (10.9)

Distribution Equipment

ATX™ DPD Series Distribution Panelboards

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications

- Protection and control of electrical equipment in hazardous areas where ignitable vapors, gases or highly combustible dusts are present.
- For installation in:
 - Chemical plants
 - Petrochemical plants
 - Refineries
 - Other process industries in Zone 1 and 2 and Zone 21 and 22
- Lighting panelboards are available in 6, 12, 18 and 24 circuits.
- Heat tracing panelboards are available in 6, 12, 18 and 20 circuits.

Features

- Available versions:
 - 3- or 4-Pole isolator switch or main breaker.
 - 1, 2, 3, 4 and 1+N poles branch circuit breakers.
 - Branch circuit breaker available with B, C or D tripping curve.
 - GFI branch circuit breaker available with B, C or D tripping curves except for 1+N poles.
- Isolator and breaker handles included as standard, can be padlocked in OFF position.
- Copper bus bar as standard.
- Fully prewired on outgoing terminal block.
- M8 earth-crossing terminal.
- Hinged door.
- 4 fixing lugs.
- Cable glands and plugs to be ordered separately.

Standard Materials

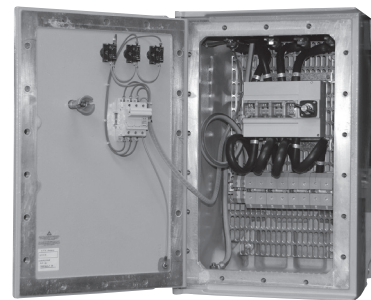
- Housing: gray marine grade aluminum alloy
- Hardware: stainless steel
- Bus bar: copper

Options

- Other rating and tripping curves.
- Other voltage.
- Indirect cable entries available through Ex e connection enclosure.
- Switch rack assembly.

ATEX/IECEx Certifications and Compliances

- Certification Type: CF
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34 EU: Ⓢ II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: T6 to T4
- Dust: Zones 21 and 22
 - Conforming to ATEX 2014/34 EU: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T130 °C (T176 °F to T266 °F)
- Ambient Temperature: CF70B: -20 °C to +55 °C (-4 °F to +131 °F), CF50B: -40 °C to +55 °C (-40 °F to +131 °F), CF60B: -50 °C to +55 °C (-58 °F to +131 °F)
- ATEX Certificate: LCIE 02 ATEX 6057X
- IECEx Certificate: IECEx LCI 08.023X
- Index of Protection according EN/IEC 60529: IP66

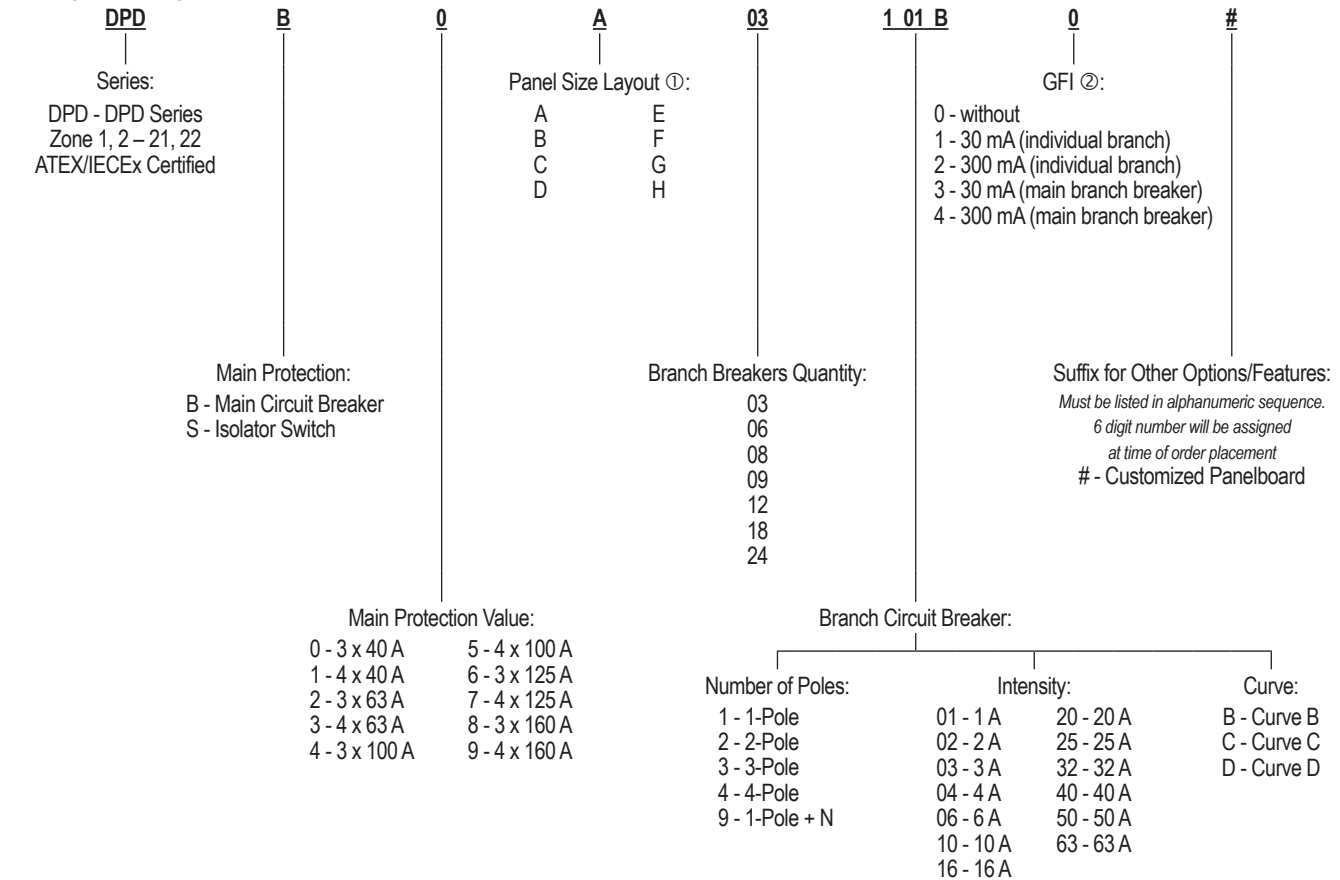


ATX™ DPD Series Distribution Panelboards

Flameproof

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide



Distribution Equipment

① See DPD Series Distribution Panelboard Dimensions page for panel size dimensions.

② 1+N pole is not for use with GFI.

ATX™ DPD Series Distribution Panelboards

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Distribution Panelboard with Branch Circuit Breakers (for Lighting Circuits, etc.)

4-pole main isolator switch and 2-pole Branch Circuit Breakers Tripping Curve C wired on terminals.

Type	Main Switch	Branch Circuit Breakers 2-Poles - Curve C		Layout Panel	Cable Entries	Volume dm ³ (in ³)	Weight kg (lb)	Catalog Number
		Quantity	Rating					
CF50B	4 x 63 A	6	2P 16 A	A	1 x M32 - 6 x M20	100 (6102)	240 (529)	DPDS3A06216C0
CF60B	4 x 63 A	12	2P 16 A	B	1 x M32 - 12 x M20	150 (9154)	378 (833)	DPDS3B12216C0
CF70B	4 x 125 A	18	2P 16 A	C	1 x M40 - 18 x M20	180 (10984)	382 (942)	DPDS7C18216C0
CF70B	4 x 160 A	24	2P 16 A	D	1 x M50 - 24 x M20	180 (10984)	382 (942)	DPDS9D24216C0

Distribution Panelboard with GFI Branch Circuit Breakers (for Heat Tracing Circuits, etc.)

4-pole main isolator switch and 1-pole + N branch circuit breakers with GFI Branch Circuit Breakers Tripping Curve C wired on terminals.

Type	Main Switch	Branch Circuit Breakers N by 2-Poles - Curve C		Layout Panel	Cable Entries	Volume dm ³ (in ³)	Weight kg (lb)	Catalog Number
		Quantity	Rating					
CF50B	4 x 63 A	6	16 A/30 mA	E	1 x M32 - 6 x M20	100 (6102)	240 (529)	DPDS3E06916C1
CF60B	4 x 63 A	12	16 A/30 mA	F	1 x M32 - 12 x M20	150 (9154)	378 (833)	DPDS3F12916C1
CF70B	4 x 125 A	18	16 A/30 mA	G	1 x M40 - 18 x M20	180 (10984)	382 (942)	DPDS7G18916C1
CF70B	4 x 160 A	20	16 A/30 mA	H	1 x M50 - 20 x M20	180 (10984)	382 (942)	DPDS9H20916C1

Distribution Panelboard with GFI Branch Circuit Breakers (for Heat Tracing Circuits, etc.)

4-pole main isolator switch and 1-pole + N branch circuit breakers with GFI Branch Circuit Breakers Tripping Curve B wired on terminals.

Type	Main Switch	Branch Circuit Breakers N by 2-Poles - Curve B		Layout Panel	Cable Entries	Volume dm ³ (in ³)	Weight kg (lb)	Catalog Number
		Quantity	Rating					
CF50B	4 x 63 A	6	16 A/30 mA	E	1 x M32 - 6 x M20	100 (6102)	240 (529)	DPDS3E06916B1
CF60B	4 x 63 A	12	16 A/30 mA	F	1 x M32 - 12 x M20	150 (9154)	378 (833)	DPDS3F12916B1
CF70B	4 x 125 A	18	16 A/30 mA	G	1 x M40 - 18 x M20	180 (10984)	382 (942)	DPDS7G18916B1
CF70B	4 x 160 A	20	16 A/30 mA	H	1 x M50 - 20 x M20	180 (10984)	382 (942)	DPDS9H20916B1

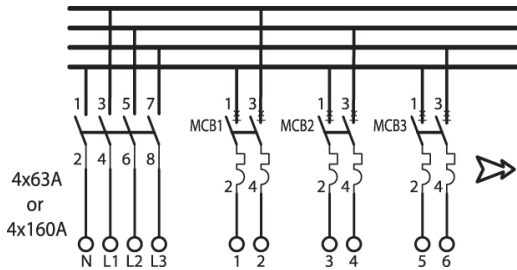
ATX™ DPD Series Distribution Panelboards

Flameproof

ATEX/IECEx: Zones 1 and 2 – 21 and 22

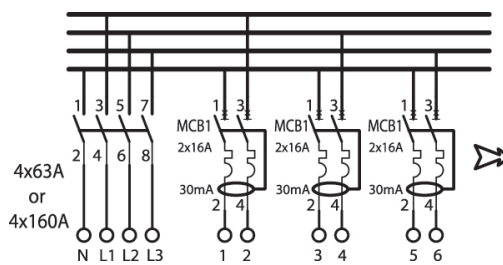
Wiring Diagram

Branch Circuit Breaker Versions



4 x 63 A or 4 x 125 A or 4 x 160 A

GFI Branch Circuit Breaker Versions



Technical Data

Main Contacts	Incoming			GFI Branch Circuit Breaker Outgoing
	63 Amps	125 Amps	160 Amps	16 A
Rated Insulation Voltage (Ui)	690 V	800 V	800 V	400 Vac
Rated Operating Voltage (Ue)	415 V/500 V/690 V	415 V/500 V/690 V	415 V/500 V/690 V	230/400 Vac
Rated Operating Current (Ie)	63 A/63 A/40 A	125 A	160 A/160 A/125 A	16 A/30 mA
Rated Surge Voltage (Uimp)	8 kV	8 kV	8 kV	4 kV
Short Circuit Resistance (Icu)	50 kA (with fuse)	63 kA (with fuse)	80 kA (with fuse)	10 kA/400 V IEC 947.2
Switching Capacity AC 21 A	415 V	63 A	125 A	—
	500 V	63 A	125 A	—
	690 V	63 A	125 A	—
Switching Capacity AC 22 A	415 V	63 A	125 A	—
	500 V	63 A	125 A	—
	690 V	40 A	80 A	—
Switching Capacity AC 23 A	415 V	63 A/30 kW	125 A/55 kW	—
	500 V	63 A/30 kW	100 A/55 kW	—
	690 V	40 A/30 kW	80 A/75 kW	—
Termination (Flexible)	4 to 35 mm ² (0.006 to 0.054 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	4 to 50 mm ² (0.006 to 0.078 in ²)	0.5 to 4 mm ² (0.0008 to 0.006 in ²)
Termination (Solid)	50 mm ² (0.078 in ²)	70 mm ² 0.109 in ²)	70 mm ² (0.109 in ²)	1.5 to 6 mm ² (0.002 to 0.009 in ²)

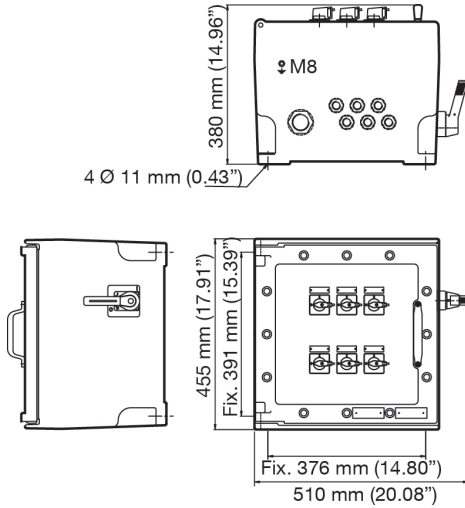
ATX™ DPD Series Distribution Panelboards

Flameproof

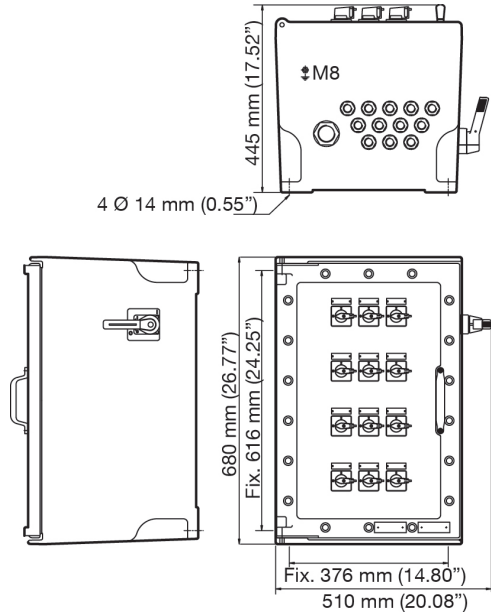
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches) — Branch Circuit Breaker Version

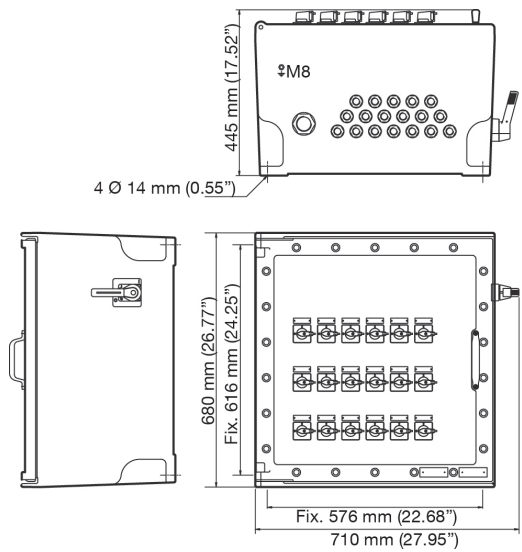
Layout Panel A



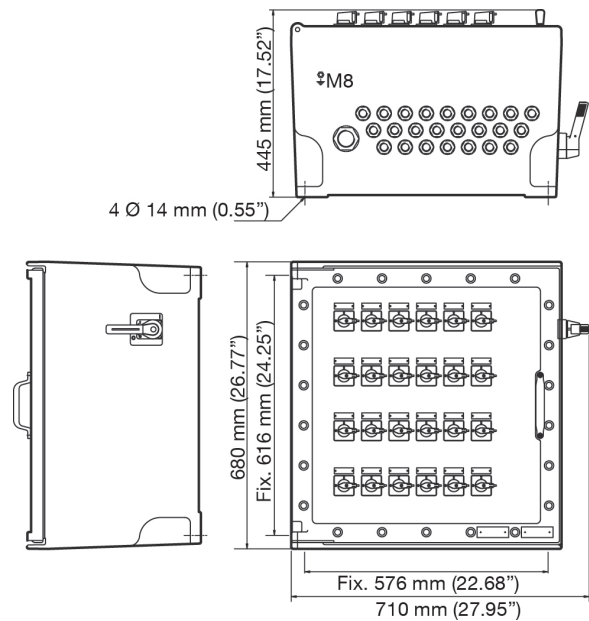
Layout Panel B



Layout Panel C



Layout Panel D



Distribution Equipment

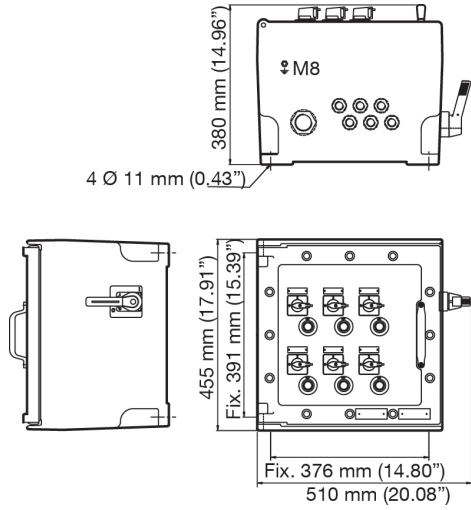
ATX™ DPD Series Distribution Panelboards

Flameproof

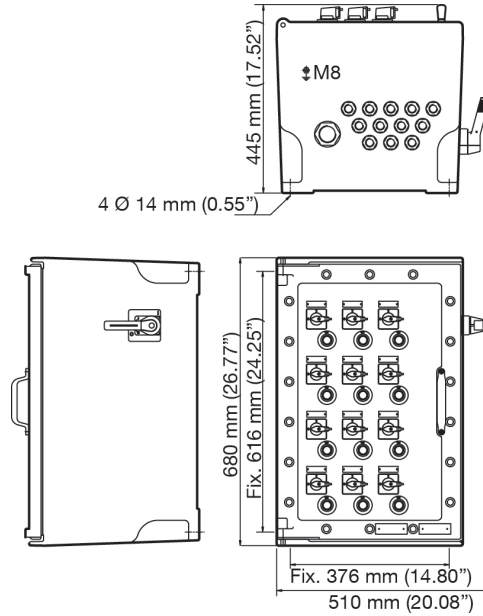
ATEX/IECEx: Zones 1 and 2 – 21 and 22

Dimensions in Millimeters (Inches) — GFI Branch Circuit Breaker Version

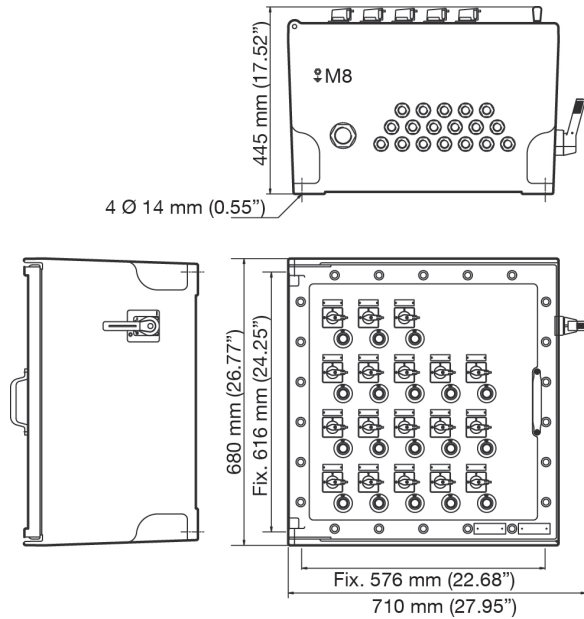
Layout Panel E



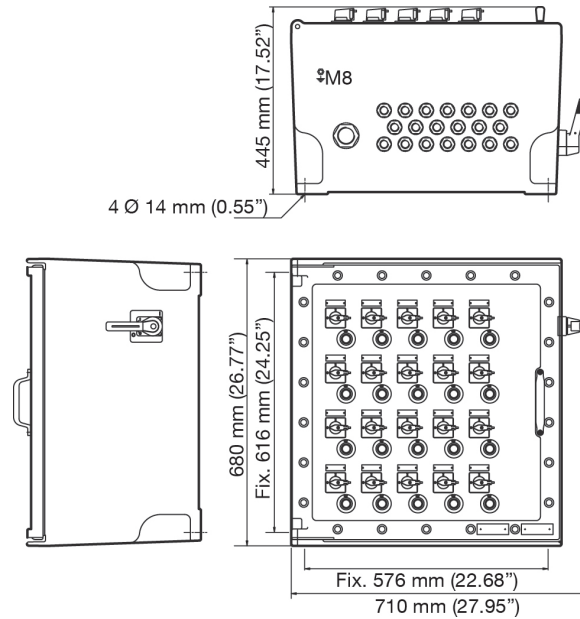
Layout Panel F



Layout Panel G



Layout Panel H



Distribution Equipment

Custom Switchracks: Built to Comply with ATEX/IEC Standards and Certifications

From Design to Installation, Manufactured Switchracks to Your Specifications

ATEX/IECEx: Zones 0, 1 and 2 – 20, 21 and 22

Designed for safety and performance and built to customer specifications. Every switchrack offers an unique solution for our customers.

We have developed our capabilities with attention to the customer's key concerns:

- Custom Design
- Quality Components
- Turnkey Fabrication
- Guaranteed Satisfaction

Customer Design

- The demands of your application are unique. Your switchrack should be too. That's why our engineers use your specifications and engineering drawings as well as all applicable codes and standards to design your custom switchrack solution.

Quality Components

- Emerson stocks one of the most extensive lines of Appleton enclosures and accessories to ensure prompt turnaround of every switchrack order.
- Only the highest grade steel and aluminum is used in construction.
- Testing prior to installation guarantees the quality you expect.

Turnkey Fabrication

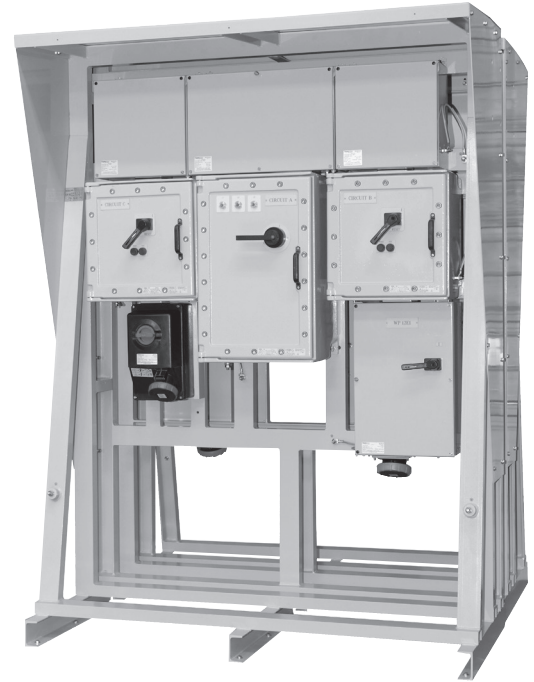
- Every switchrack is engineered, fabricated and assembled in-house by qualified technicians.

Guaranteed Satisfaction

- Emerson's involvement doesn't end with the purchase order. The company backs its switchracks with an exclusive factory warranty. Each switchrack is covered for one year following installation standard warranty, or 18 months after shipment.
















Optional Components

- Circuit breakers
- Motor starters
- Contactors
- Junction boxes
- Control stations
- Meter/instrument enclosures
- Panelboards
- Receptacles
- Photo cells
- Light fixtures
- Transformers



Notes

Hazardous Location Fittings | Pictorial Index

Page	Description	NEC	CEC	ATEX	IECEX		
F2	Cable Gland Selection Guide	•	•	•	•		
F4	TSPe Series Polyamide Cable Glands			•	•		
F6	A2F Series Nickel Plated Brass Cable Glands		•	•	•		
F8	E1FX Series Nickel Plated Brass Cable Gland	•	•	•	•		
F10	E1FW Series Nickel Plated Brass Cable Glands	•	•	•	•		
F12	E1FU Series Triple Certified Cable Glands	•	•	•	•		
F14	TE1FU Series Stainless Steel Cable Glands	•	•	•	•		
F16	T3 Series Nickel Plated Brass Cable Glands	•	•	•	•		
F18	PX (PXSS2K) Series Compound Barrier Type Cable Connector	•	•	•	•		
F20	PX-REX (PXSS2K-REX) Series Liquid Resin Barrier Type Cable Connector	•	•	•	•		
F22	PX2K Series Nickel Plated Brass Compound Barrier Type Cable Glands	•	•	•	•	<i>PX (PXSS2K) PX-REX (PXSS2K-REX)</i>	<i>PX2K PX2K-REX</i>
F24	PX2K-REX Series Liquid Resin Barrier Type Cable Glands	•	•	•	•		
F26	737 Series Adaptors and Reducers	•	•	•	•		
F29	747 Series Stopper Plugs	•	•	•	•		
F30	757 Series Blanking Plugs	•	•	•	•		
F32	767 Series Stopper Plugs	•	•	•	•		
F33	Cable Gland Accessories and Tools	•	•	•	•		
F37	DB Series Drain and Breather Valves			•	•		<i>DB Series Drain and Breather Valves</i>
F38	DB Series Fire Retardant Seal			•	•		
						<i>DB Series Fire Retardant Seal</i>	

Cable Gland Selection Guide

Selection Chart – Certifications

Mode of protection	Series	Material	Unarmored cables	Armoured cables			Type of seal
				Wire	Braid	Tape	
"e"	TSPe	Polyamide	Yes				Neoprene seal
	A2F	Brass, fully nickel plated / stainless steel	Yes				
"d" and "e"	E1FX	Brass, fully nickel plated			Yes	Yes	
	E1FW	Brass, fully nickel plated		Yes			Elastomer seal
	E1FU	Brass, fully nickel plated		Yes	Yes	Yes	
	T3	Brass, fully nickel plated		Yes	Yes	Yes	
	TE1FU	Stainless steel		Yes	Yes	Yes	
"d" and "e"	PX (PXSS2K)	Brass, fully nickel plated	Yes				Compound seal
	PX2K	Brass, fully nickel plated		Yes	Yes	Yes	
"d" and "e"	PX-REX (PXSS2K-REX)	Brass, fully nickel plated	Yes				Liquid resin
	PX2K-REX	Brass, fully nickel plated		Yes	Yes	Yes	

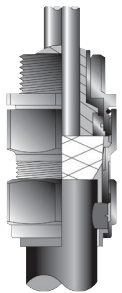
Selection Guide

Selection of cable entry for Ex d flameproof enclosure.

According to EN 60079-14 (2014) norm, chapter n° 10.6.2. Other possible options as specified in EN 60079-14 (2014), chapter 10.6.2.

Option A	Option B
----------	----------

Ex d cable entry compound sealing /liquide resin
Per: EN 60079-1



Ex d cable entry with sealing ring
Pe : EN 60079-1

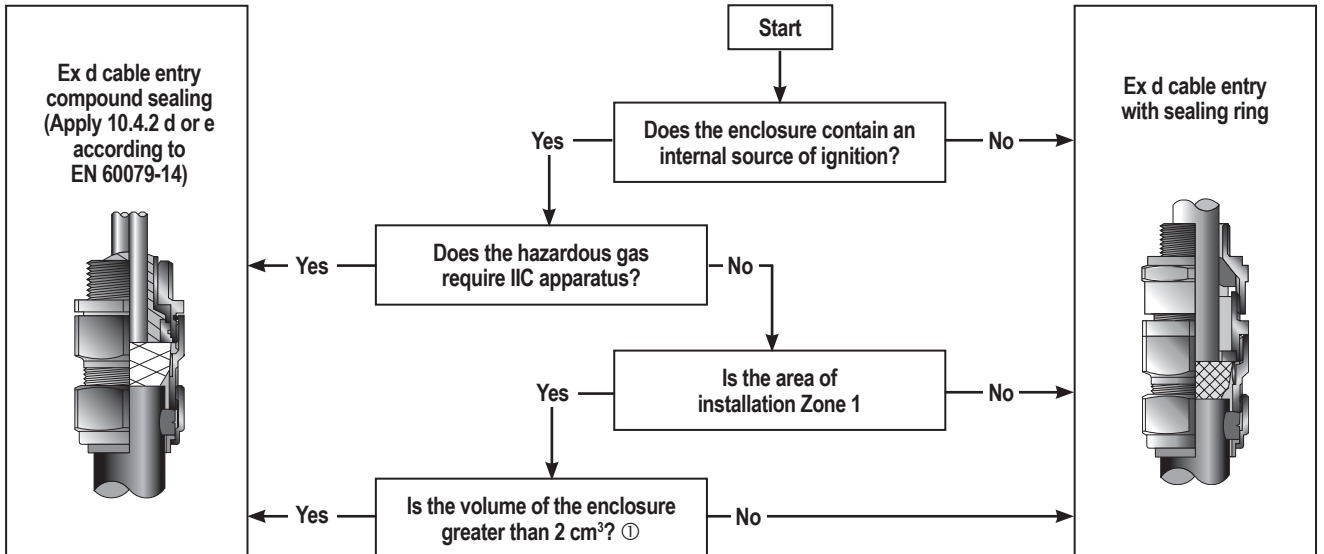


With cable of 3 meter (9.84 foot) length minimum and conforms to EN 60079-14 (2014) chapter 9.3.2 (a).

Cable Gland Selection Guide

Selection Guide

Selection of cable entry for Ex d flameproof enclosure according to electrical installations IEC 60079-14.



① dm³: 1 cubic decimeter equals approximately 61 cubic inches.

TSPe Series Polyamide Cable Glands

Increased Safety and Dust Environments
For Unarmored Cables.

ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX Certified

Applications

- For non-armored cables certified for enclosures with the following protection modes:
 - Ex e: Increased safety
 - D: Dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore

Features

- Body
- Sealing ring
- Supplied with sealing gasket
- 2 colors available: black (RAL 9011), Blue (RAL 5015)

Materials

- Body: halogen free polyamide
- Sealing ring: elastomer
- Entry thread seal: halogen free elastomer

ATEX/IECEx Certifications and Compliances

- Certification Type: TruSeal - TSPe and TSPi Models
 - Conforming to ATEX 2014/34/EU: Ⓜ II 2 G, Ⓜ II 1 D
 - Gas: Zones 1 and 2
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zones 20
 - Type of Protection: Ex tb IIIC Da
 - Ambient Temperature: -60 °C to +95 °C (-76 °F to +203 °F)
 - ATEX Certificate: CML 19ATEX3185X
 - IECEx Certificate: IECEx CML 19.0062X
 - Index of Protection: IP66 - IP68

UKEX Certifications

- UKEX Certificate: CML 21UKEX3264X

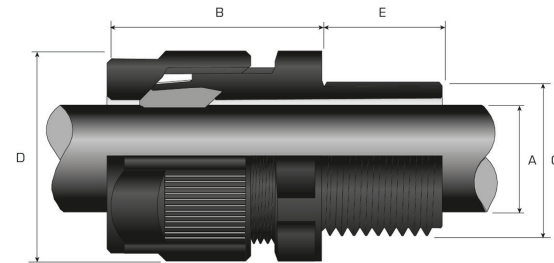


Black RAL 9011



Blue RAL 5015

Dimensions in Millimeters (Inches)



TSPe Series Polyamide Cable Glands

Increased Safety and Dust Environments
For Unarmored Cables.

ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX Certified

Metric Thread	Thread Pitch (mm)	Overall Cable Diameter mm (in) A		Across Flats mm (in) D	Total Length mm (in) B+E	Thread Length mm (in) E	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number ①
		Min.	Max.						
Black RAL 9011									
M16	1.5	3.2 (0.13)	10.0 (0.39)	19.0 (0.75)	42.0 (1.65)	15.0 (0.59)	0.01 (0.02)	0.02 (1.22)	16DTSPE1TAL
M20	1.5	5.5 (0.22)	14.0 (0.55)	24.0 (1.06)	45.5 (1.79)	15.0 (0.59)	0.02 (0.04)	0.03 (1.83)	20DTSPE1TAL
M25	1.5	9.0 (0.35)	18.0 (0.71)	30.0 (1.18)	51.0 (2.01)	15.0 (0.59)	0.03 (0.07)	0.05 (3.05)	25DTSPE1TAL
M32	1.5	12.5 (0.49)	25.0 (0.98)	40.0 (1.57)	56.0 (2.02)	15.0 (0.59)	0.05 (0.11)	0.09 (5.49)	32DTSPE1TAL
M40	1.5	19.0 (0.75)	32.0 (1.26)	50.0 (1.97)	67.0 (2.64)	18.0 (0.71)	0.09 (0.19)	0.17 (10.37)	40DTSPE1TAL
M50	1.5	22.0 (0.87)	38.0 (1.50)	58.0 (2.28)	77.0 (3.03)	18.0 (0.71)	0.14 (0.31)	0.26 (15.87)	50DTSPE1TAL
M63	1.5	28.0 (1.10)	48.0 (1.89)	68.0 (2.68)	82.0 (3.23)	18.0 (0.71)	0.20 (0.44)	0.38 (23.19)	63DTSPE1TAL
Blue RAL 5015									
M16	1.5	3.2 (0.13)	10.0 (0.39)	19.0 (0.75)	42.0 (1.65)	15.0 (0.59)	0.01 (0.02)	0.02 (1.22)	16DTSPE1TA4L
M20	1.5	5.5 (0.22)	14.0 (0.55)	24.0 (1.06)	45.5 (1.79)	15.0 (0.59)	0.02 (0.04)	0.03 (1.83)	20DTSPE1TA4L
M25	1.5	9.0 (0.35)	18.0 (0.71)	30.0 (1.18)	51.0 (2.01)	15.0 (0.59)	0.03 (0.07)	0.05 (3.05)	25DTSPE1TA4L
M32	1.5	12.5 (0.49)	25.0 (0.98)	40.0 (1.57)	56.0 (2.02)	15.0 (0.59)	0.05 (0.11)	0.09 (5.49)	32DTSPE1TA4L
M40	1.5	19.0 (0.75)	32.0 (1.26)	50.0 (1.97)	67.0 (2.64)	18.0 (0.71)	0.09 (0.19)	0.17 (10.37)	40DTSPE1TA4L
M50	1.5	22.0 (0.87)	38.0 (1.50)	58.0 (2.28)	77.0 (3.03)	18.0 (0.71)	0.14 (0.31)	0.26 (15.87)	50DTSPE1TA4L
M63	1.5	28.0 (1.10)	48.0 (1.89)	68.0 (2.68)	82.0 (3.23)	18.0 (0.71)	0.20 (0.44)	0.38 (23.19)	63DTSPE1TA4L

① For Locknut, see Cable Gland Accessories section.

A2F Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmored Cables.

CEC: Class I, Division 2, Groups B, C, D | Ex d IIC, Ex e IIC, Ex nR II | Type 4X
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable glands for unarmored and exterior braid armor with protective sheath cable certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety
 - Ex nR: restricted breathing
 - D: dust environment
- Hazardous areas (gas and dust)
- Onshore and open-sea pipelines

Features

- Elastomer displacement seal for unarmored cable provides a combined flameproof and weatherproof seal on the outer sheath of the cable.

Standard Materials

- Body: nickel plated brass (suffix 5)
- Seal: LSF (Low Smoke Fume) thermoplastic elastomer

Options

- 316L stainless steel version: replace last digit 5 with 4
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages

CEC Certifications and Compliances

- CSA Standard: C22.2 No 0,0.4, 94, 174, CAN/CSA-E60079-0,1,7,15
- CSA Certified: 1211841

ATEX/IECEx Certifications and Compliances

- Certification Type: Type A**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1321X, CML 18ATEX4313X
- IECEx Certificate: IECEx CML 18.0179X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Impact Resistance : IK10
- Deluge Protection Compliance: DTS01:91

Cable Gland Size	Catalog Numbers					
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
20S16	M20	2016A2F5	1/2"	2016A2F0505	3/4"	2016A2F0755
20S	M20	20SA2F5	1/2"	20SA2F0505	3/4"	20SA2F0755
20	M20	20A2F5	1/2"	20A2F0505	3/4"	20A2F0755
25	M25	25A2F5	3/4"	25A2F0755	1"	25A2F1005
32	M32	32A2F5	1"	32A2F1005	1-1/4"	32A2F1255
40	M40	40A2F5	1-1/4"	40A2F1255	1-1/2"	40A2F1505
50S	M50	50SA2F5	1-1/2"	50SA2F1505	2"	50SA2F2005
50	M50	50A2F5	2"	50A2F2005	2-1/2"	50A2F2505
63S	M63	63SA2F5	2"	63SA2F2005	2-1/2"	63SA2F2505
63	M63	63A2F5	2-1/2"	63A2F2505	3"	63A2F3005
75S	M75	75SA2F5	2-1/2"	75SA2F2505	3"	75SA2F3005
75	M75	75A2F5	3"	75A2F3005	3-1/2"	75A2F3505
90	M90	90A2F5	3-1/2"	90A2F3505	4"	90A2F4005
100	M100	100A2F5	3-1/2"	100A2F3505	4"	100A2F4005
115	M115	115A2F5	4"	115A2F4005	5"	115A2F5005
130	M130	130A2F5	5"	130A2F5005	-	130A2F6005

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

A2F Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmored Cables.

CEC: Class I, Division 2, Groups B, C, D | Ex d IIC, Ex e IIC, Ex nR II | Type 4X
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: CML 21UKEX1245X, CML 21UKEX4246X, CML 21UKEX1249X, CML 21UKEX4250X

INMETRO Certifications

- INMETRO Certificate: TÜV 21.1075X; for INMETRO marking, add B after A2F. Example: 20A2FB5

EAC Certifications

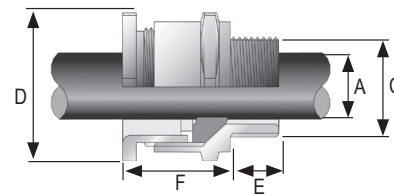
- EAC Certificate: C-GB.A07.B.02519/20; for EAC marking, add U after A2F. Example: 20A2FU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Overall Cable Diameter mm (in) A		Across Flats mm (in) D Max.	Across Corners mm (in) D Max.	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight kg (oz)
	Metric	NPT	Min.	Max.					
20S16	15.0 (0.59)	19.9 (0.78)	3.2 (0.13)	8.7 (0.34)	24.0 (0.95)	26.4 (1.04)	26.0 (1.04)	PVC04	0.07 (2.30)
20S	15.0 (0.59)	19.9 (0.78)	6.1 (0.24)	11.7 (0.46)	24.0 (0.95)	26.4 (1.04)	26.0 (1.04)	PVC04	0.06 (2.02)
20	15.0 (0.59)	19.9 (0.78)	6.5 (0.26)	14.0 (0.55)	27.0 (1.06)	29.7 (1.17)	27.7 (1.06)	PVC05	0.07 (2.04)
25	15.0 (0.59)	20.2 (0.80)	11.1 (0.44)	20.0 (0.79)	36.0 (1.42)	39.6 (1.56)	35.5 (1.40)	PVC09	0.13 (3.66)
32	15.0 (0.59)	25.0 (0.98)	17.0 (0.67)	26.3 (1.04)	41.0 (1.62)	45.1 (1.78)	35.1 (1.35)	PVC10	0.15 (4.45)
40	15.0 (0.59)	25.6 (1.01)	23.5 (0.93)	32.2 (1.27)	50.0 (1.97)	55.0 (2.17)	35.1 (1.37)	PVC13	0.20 (6.64)
50S	15.0 (0.59)	26.1 (1.03)	31.0 (1.22)	38.2 (1.50)	55.0 (2.17)	60.5 (2.38)	33.0 (1.34)	PVC15	0.26 (8.12)
50	15.0 (0.59)	26.9 (1.06)	35.6 (1.40)	44.0 (1.73)	60.0 (2.36)	66.0 (2.60)	37.3 (1.52)	PVC18	0.27 (15.26)
63S	15.0 (0.59)	26.9 (1.06)	41.5 (1.63)	49.9 (1.96)	70.5 (2.78)	77.6 (3.06)	33.5 (1.42)	PVC21	0.43 (12.41)
63	15.0 (0.59)	39.9 (1.57)	47.2 (1.86)	55.9 (2.20)	75.0 (2.96)	82.5 (3.25)	36.2 (1.41)	PVC23	0.46 (25.55)
75S	15.0 (0.59)	39.9 (1.57)	54.0 (2.13)	61.9 (2.44)	84.0 (3.31)	92.4 (3.64)	34.1 (1.46)	PVC26	0.52 (18.54)
75	15.0 (0.59)	41.5 (1.63)	61.1 (2.41)	67.9 (2.67)	84.0 (3.31)	92.4 (3.64)	40.9 (1.58)	PVC26	0.50 (44.56)
90	24.0 (0.94)	42.8 (1.69)	66.6 (2.62)	79.9 (3.15)	108.0 (4.26)	118.8 (4.68)	60.3 (2.18)	PVC31	1.60 (59.90)
100	24.0 (0.94)	42.8 (1.69)	76.0 (2.99)	91.0 (3.58)	123.0 (4.85)	135.3 (5.33)	57.2 (2.19)	LSF33	1.78 (52.90)
115	24.0 (0.94)	44.0 (1.73)	86.0 (3.39)	97.9 (3.85)	133.4 (5.26)	146.7 (5.78)	67.3 (2.57)	LSF34	2.67 (76.71)
130	24.0 (0.94)	46.8 (1.84)	97.0 (3.82)	114.9 (4.52)	152.4 (6.00)	167.6 (6.60)	74.7 (2.91)	LSF35	3.80 (138.91)

Hazardous Location Fittings

E1FX Series Nickel Plated Brass Cable Gland

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armoured Cables (Braid, Tape).

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for armored cables (braid, tape, tape with lead sheath) certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety
 - Ex nR: restricted breathing
 - D: dust environment
- Hazardous areas (gas and dust)
- Onshore and offshore

Features

- Cable gland with elastomer seal for use in hazardous areas with braided and tape armor cable.
- The cable gland allows mechanical cable retention and earth continuity via cable armor termination.
- A detachable armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables cable to be disconnected from the equipment.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

Standard Materials

- Body: nickel plated brass
- Seal: SOLO LSF (low smoke and fume) halogen free thermoset elastomer

Options

- Lead sheath version: replace digit 1 with 2; example: 32E1FX5 - 32E2FX5
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages

NEC/CEC Certifications and Compliances

- cCSAus Certified: 1310517

ATEX/IECEx Certifications and Compliances

- Certification Type: Type E**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- Index of Protection according EN/IEC 60529: IP66 (IP67, IP68 available on request)
- Impact Resistance: IK10
- Deluge Protection Compliance: DTS01:91 (available on request)

Cable Gland Size	Catalog Numbers					
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
20S16	M20	2016E1FX5	1/2"	2016E1FX0505	3/4"	2016E1FX0755
20S	M20	20SE1FX5	1/2"	20SE1FX0505	3/4"	20SE1FX0755
20	M20	20E1FX5	1/2"	20E1FX0505	3/4"	20E1FX0755
25S	M25	25SE1FX5	3/4"	25SE1FX0755	1"	25SE1FX1005
25	M25	25E1FX5	3/4"	25E1FX0755	1"	25E1FX1005
32	M32	32E1FX5	1"	32E1FX1005	1-1/4"	32E1FX1255
40	M40	40E1FX5	1-1/4"	40E1FX1255	1-1/2"	40E1FX1505
50S	M50	50SE1FX5	1-1/2"	50SE1FX1505	2"	50SE1FX1505
50	M50	50E1FX5	2"	50E1FX2005	2-1/2"	50E1FX2505
63S	M63	63SE1FX5	2"	63SE1FX2005	2-1/2"	63SE1FX2505
63	M63	63E1FX5	2-1/2"	63E1FX2505	3"	63E1FX3005
75S	M75	75SE1FX5	2-1/2"	75SE1FX2505	3"	75SE1FX3005
75	M75	75E1FX5	3"	75E1FX3005	3-1/2"	75E1FX3505
90	M90	90E1FX5	3-1/2"	90E1FX3505	4"	90E1FX4005
100	M100	100E1FX5	3-1/2"	100E1FX3505	4"	100E1FX4005
115	M115	115E1FX5	4"	115E1FX4005	5"	115E1FX5005
130	M130	130E1FX5	5"	130E1FX5005	—	—

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

E1FX Series Nickel Plated Brass Cable Gland

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armoured Cables (Braid, Tape).

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: CML 21UKEX1252X, CML 21UKEX4253X

INMETRO Certifications

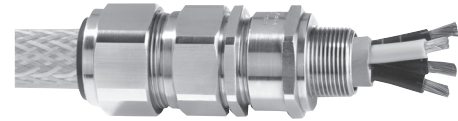
- INMETRO Certificate: TUV 12.0618X, for INMETRO marking, add B after E1FX. Example: 20E1FXB5

EAC Certifications

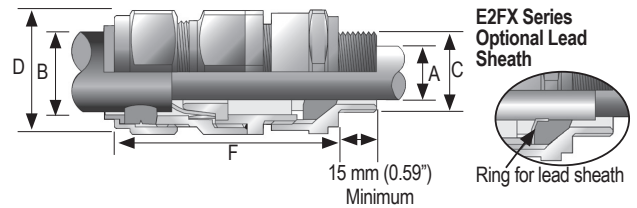
- EAC Certificate: C-GB.A07.B.02515/20; for EAC marking, add U after E1FX. Example: 20E1FXU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding Diameter mm (in) A		Overall Cable Diameter mm (in) B		Across Flats mm (in) D Max.	Across Corners mm (in) D Max.	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight kg (oz)
	Metric	NPT	Min.	Max.	Min.	Max.					
20S16	15,0 (0.59)	19.9 (0.78)	3.1 (0.12)	8.6 (0.34)	6.1 (0.24)	13.1 (0.52)	24.0 (0.95)	26.4 (1.04)	72.5 (2.85)	PVC04	0.16 (5.64)
20S	15,0 (0.59)	19.9 (0.78)	6.1 (0.24)	11.6 (0.46)	9.5 (0.37)	15.9 (0.63)	24.0 (0.95)	26.4 (1.04)	70.0 (2.76)	PVC04	0.15 (5.29)
20	15,0 (0.59)	19.9 (0.78)	6.5 (0.26)	13.9 (0.55)	12.5 (0.49)	20.9 (0.82)	30.5 (1.20)	33.6 (1.32)	73.0 (2.87)	PVC06	0.21 (7.41)
25S	15,0 (0.59)	20.2 (0.80)	11.1 (0.44)	19.9 (0.78)	14.0 (0.55)	22.0 (0.87)	37.5 (1.48)	41.3 (1.63)	89.0 (3.50)	PVC09	0.33 (11.64)
25	15,0 (0.59)	20.2 (0.80)	11.1 (0.44)	19.9 (0.78)	18.2 (0.72)	26.2 (1.03)	37.5 (1.48)	41.3 (1.63)	89.0 (3.50)	PVC09	0.33 (11.64)
32	15,0 (0.59)	25.0 (0.98)	17.0 (0.67)	26.2 (1.03)	23.7 (0.93)	33.9 (1.33)	46.0 (1.81)	50.6 (1.99)	86.0 (3.39)	PVC11	0.43 (15.17)
40	15,0 (0.59)	25.6 (1.01)	22.0 (0.87)	32.1 (1.26)	27.9 (1.10)	40.4 (1.59)	55.0 (2.17)	60.5 (2.38)	90.0 (3.54)	PVC15	0.62 (21.87)
50S	15,0 (0.59)	26.1 (1.03)	29.5 (1.16)	38.1 (1.50)	35.2 (1.39)	46.7 (1.84)	60.0 (2.36)	66.0 (2.60)	91.0 (3.58)	PVC18	0.75 (26.46)
50	15,0 (0.59)	26.9 (1.06)	35.6 (1.40)	44.0 (1.73)	40.4 (1.59)	53.0 (2.09)	70.1 (2.76)	77.1 (3.04)	95.0 (3.74)	PVC21	0.95 (33.51)
63S	15,0 (0.59)	26.9 (1.06)	40.1 (1.58)	49.9 (1.96)	45.6 (1.80)	59.4 (2.34)	75.0 (2.96)	82.5 (3.25)	102.0 (4.02)	PVC23	1.34 (47.27)
63	15,0 (0.59)	39.9 (1.57)	47.2 (1.86)	55.9 (2.20)	54.6 (2.15)	65.8 (2.59)	80.0 (2.96)	88.0 (3.25)	104.0 (4.09)	PVC25	1.34 (47.27)
75S	15,0 (0.59)	39.9 (1.57)	52.8 (2.08)	61.9 (2.44)	59.0 (2.32)	72.0 (2.83)	90.0 (3.55)	99.0 (3.90)	115.0 (4.53)	PVC28	2.11 (74.43)
75	15,0 (0.59)	41.5 (1.63)	59.1 (2.33)	67.9 (2.67)	66.7 (2.63)	78.4 (3.09)	100.0 (3.94)	110.0 (4.33)	117.0 (4.61)	PVC30	2.42 (85.36)
90	24,0 (0.94)	42.8 (1.69)	66.6 (2.62)	78.6 (3.09)	76.2 (3.00)	90.3 (3.56)	114.3 (4.50)	125.4 (4.95)	147.0 (5.79)	PVC32	4.21 (148.50)
100	24,0 (0.94)	42.8 (1.69)	76.0 (2.99)	90.9 (3.58)	86.1 (3.39)	101.4 (3.99)	123.0 (4.85)	135.3 (5.33)	140.0 (5.51)	LSF33	4.45 (156.97)
115	24,0 (0.94)	44.0 (1.73)	86.0 (3.39)	97.9 (3.85)	101.5 (4.00)	110.2 (4.34)	133.4 (5.26)	146.7 (5.78)	162.0 (6.38)	LSF34	6.19 (218.35)
130	24,0 (0.94)	46.8 (1.84)	97.0 (3.82)	114.9 (4.52)	110.2 (4.34)	123.2 (4.85)	152.4 (6.00)	167.6 (6.60)	174.0 (6.85)	LSF35	8.34 (294.19)

Hazardous Location Fittings

E1FW Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations For Armoured Cables (SWA With Wire).

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for single wire armored cables (SWA with wire and lead sheath) certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety
 - Ex nR: restricted breathing
 - D: dust environment
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Cable gland with elastomer seal for use in hazardous areas with single wire armor (SWA) cable.
- The cable gland allows mechanical cable retention and earth continuity via cable armor termination.
- A detachable armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables cable to be disconnected from the equipment.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

Standard Materials

- Body: nickel plated brass
- Seal: SOLO LSF (low smoke and fume) halogen free thermoset elastomer

Options

- Lead sheath version: replace digit E1 with E2; example: 32E1FW5 - 32E2FW5
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- cCSAus Certified: 1310517

ATEX/IECEx Certifications and Compliances

- Certification Type: Type E**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- Index of Protection according EN/IEC 60529: IP66 (IP67, IP68 available on request)
- Impact Resistance: IK10
- Deluge Protection Compliance: DTS01:91 (available on request)

Cable Gland Size	Catalog Numbers		Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
	Metric Thread C	Standard Metric ①				
20S16	M20	2016E1FW5	1/2"	2016E1FW0505	3/4"	2016E1FW0755
20S	M20	20SE1FW5	1/2"	20SE1FW0505	3/4"	20SE1FW0755
20	M20	20E1FW5	1/2"	20E1FW0505	3/4"	20E1FW0755
25S	M25	25SE1FW5	3/4"	25SE1FW0755	1"	25SE1FW1005
25	M25	25E1FW5	3/4"	25E1FW0755	1"	25E1FW1005
32	M32	32E1FW5	1"	32E1FW1005	1-1/4"	32E1FW1255
40	M40	40E1FW5	1-1/4"	40E1FW1255	1-1/2"	40E1FW1505
50S	M50	50SE1FW5	1-1/2"	50SE1FW1505	2"	50SE1FW1505
50	M50	50E1FW5	2"	50E1FW2005	2-1/2"	50E1FW2505
63S	M63	63SE1FW5	2"	63SE1FW2005	2-1/2"	63SE1FW2505
63	M63	63E1FW5	2-1/2"	63E1FW2505	3"	63E1FW3005
75S	M75	75SE1FW5	2-1/2"	75SE1FW2505	3"	75SE1FW3005
75	M75	75E1FW5	3"	75E1FW3005	3-1/2"	75E1FW3505
90	M90	90E1FW5	3-1/2"	90E1FW3505	4"	90E1FW4005
100	M100	100E1FW5	3-1/2"	100E1FW3505	4"	100E1FW4005
115	M115	115E1FW5	4"	115E1FW4005	5"	115E1FW5005
130	M130	130E1FW5	5"	130E1FW5005	—	—

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

E1FW Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations For Armoured Cables (SWA With Wire).

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: CML 21UKEX1252X, CML 21UKEX4253X

INMETRO Certifications

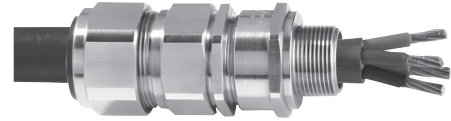
- INMETRO Certificate: TUV 12.0618X, for INMETRO marking, add B after E1FW. Example: 20E1FWB5

EAC Certifications

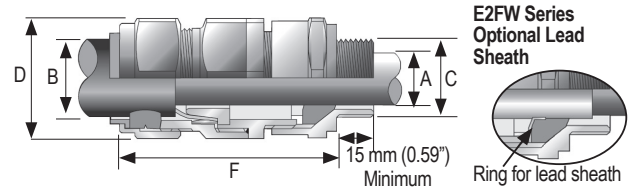
- EAC Certificate: C-GB.A07.B.02515/20; for EAC marking, add U after E1FW. Example: 20E1FWU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding Diameter mm (in) A		Overall Cable Diameter mm (in) B		Across Flats mm (in) D Max.	Across Corners mm (in) D Max.	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight kg (oz)
	Metric	NPT	Min.	Max.	Min.	Max.					
20S16	15.0 (0.59)	19.9 (0.78)	3.1 (0.12)	8.6 (0.34)	6.1 (0.24)	13.1 (0.52)	24.0 (0.95)	26.4 (1.04)	72.5 (2.85)	PVC04	0.16 (5.64)
20S	15.0 (0.59)	19.9 (0.78)	6.1 (0.24)	11.6 (0.46)	9.5 (0.37)	15.9 (0.63)	24.0 (0.95)	26.4 (1.04)	70.0 (2.76)	PVC04	0.15 (5.29)
20	15.0 (0.59)	19.9 (0.78)	6.5 (0.26)	13.9 (0.55)	12.5 (0.49)	20.9 (0.82)	30.5 (1.20)	33.6 (1.32)	73.0 (2.87)	PVC06	0.21 (7.41)
25S	15.0 (0.59)	20.2 (0.80)	11.1 (0.44)	19.9 (0.78)	14.0 (0.55)	22.0 (0.87)	37.5 (1.48)	41.3 (1.63)	89.0 (3.50)	PVC09	0.33 (11.64)
25	15.0 (0.59)	20.2 (0.80)	11.1 (0.44)	19.9 (0.78)	18.2 (0.72)	26.2 (1.03)	37.5 (1.48)	41.3 (1.63)	89.0 (3.50)	PVC09	0.33 (11.64)
32	15.0 (0.59)	25.0 (0.98)	17.0 (0.67)	26.2 (1.03)	23.7 (0.93)	33.9 (1.33)	46.0 (1.81)	50.6 (1.99)	86.0 (3.39)	PVC11	0.43 (15.17)
40	15.0 (0.59)	25.6 (1.01)	22.0 (0.87)	32.1 (1.26)	27.9 (1.10)	40.4 (1.59)	55.0 (2.17)	60.5 (2.38)	90.0 (3.54)	PVC15	0.62 (21.87)
50S	15.0 (0.59)	26.1 (1.03)	29.5 (1.16)	38.1 (1.50)	35.2 (1.39)	46.7 (1.84)	60.0 (2.36)	66.0 (2.60)	91.0 (3.58)	PVC18	0.75 (26.46)
50	15.0 (0.59)	26.9 (1.06)	35.6 (1.40)	44.0 (1.73)	40.4 (1.59)	53.0 (2.09)	70.1 (2.76)	77.1 (3.04)	95.0 (3.74)	PVC21	0.95 (33.51)
63S	15.0 (0.59)	26.9 (1.06)	40.1 (1.58)	49.9 (1.96)	45.6 (1.80)	59.4 (2.34)	75.0 (2.96)	82.5 (3.25)	102.0 (4.02)	PVC23	1.34 (47.27)
63	15.0 (0.59)	39.9 (1.57)	47.2 (1.86)	55.9 (2.20)	54.6 (2.15)	65.8 (2.59)	80.0 (2.96)	88.0 (3.25)	104.0 (4.09)	PVC25	1.34 (47.27)
75S	15.0 (0.59)	39.9 (1.57)	52.8 (2.08)	61.9 (2.44)	59.0 (2.32)	72.0 (2.83)	90.0 (3.55)	99.0 (3.90)	115.0 (4.53)	PVC28	2.11 (74.43)
75	15.0 (0.59)	41.5 (1.63)	59.1 (2.33)	67.9 (2.67)	66.7 (2.63)	78.4 (3.09)	100.0 (3.94)	110.0 (4.33)	117.0 (4.61)	PVC30	2.42 (85.36)
90	24.0 (0.94)	42.8 (1.69)	66.6 (2.62)	78.6 (3.09)	76.2 (3.00)	90.3 (3.56)	114.3 (4.50)	125.4 (4.95)	147.0 (5.79)	PVC32	4.21 (148.50)
100	24.0 (0.94)	42.8 (1.69)	76.0 (2.99)	90.9 (3.58)	86.1 (3.39)	101.4 (3.99)	123.0 (4.85)	135.3 (5.33)	140.0 (5.51)	LSF33	4.45 (156.97)
115	24.0 (0.94)	44.0 (1.73)	86.0 (3.39)	97.9 (3.85)	101.5 (4.00)	110.2 (4.34)	133.4 (5.26)	146.7 (5.78)	162.0 (6.38)	LSF34	6.19 (218.35)
130	24.0 (0.94)	46.8 (1.84)	97.0 (3.82)	114.9 (4.52)	110.2 (4.34)	123.2 (4.85)	152.4 (6.00)	167.6 (6.60)	174.0 (6.85)	LSF35	8.34 (294.19)

Hazardous Location Fittings

E1FU Series Triple Certified Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for armored cables (SWA, braid, tape) certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety
 - Ex nR: restricted breathing
 - D: dust environment
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Provides a gas tight seal permitting the compatibility of use with restricted breathing (Type "nR") equipment.
- Allows mechanical cable retention and earth continuity via the cable armor termination.
- Reversible armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment.
- Stepped cone is suitable for SWA cables. Grooved cone is suitable for all other approved armored cables.

Standard Materials

- Body: nickel plated brass
- Seal: SOLO LSF (low smoke and fume) halogen free thermoset elastomer

Options

- Lead sheath version: replace digit E1 with E2; example: 32E1FU5 - 32E2FU5
- Aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- cCSAus Certified: 1310517

ATEX/IECEx Certifications and Compliances

- Certification Type: Type E**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1324X, CML 18ATEX4316X
- IECEx Certificate: IECEx CML 18.0181X
- Index of Protection according EN/IEC 60529: IP66 (IP67, IP68 available on request)
- Impact Resistance: IK10
- Deluge Protection Compliance: DTS01:91 (available on request)

Catalog Numbers						
Cable Gland Size	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
20S16	M20	2016E1FU5	1/2"	2016E1FU0505	3/4"	2016E1FU0755
20S	M20	20SE1FU5	1/2"	20SE1FU0505	3/4"	20SE1FU0755
20	M20	20E1FU5	1/2"	20E1FU0505	3/4"	20E1FU0755
25S	M25	25SE1FU5	3/4"	25SE1FU0755	1"	25SE1FU1005
25	M25	25E1FU5	3/4"	25E1FU0755	1"	25E1FU1005
32	M32	32E1FU5	1"	32E1FU1005	1-1/4"	32E1FU1255
40	M40	40E1FU5	1-1/4"	40E1FU1255	1-1/2"	40E1FU1505
50S	M50	50SE1FU5	1-1/2"	50SE1FU1505	2"	50SE1FU1505
50	M50	50E1FU5	2"	50E1FU2005	2-1/2"	50E1FU2505
63S	M63	63SE1FU5	2"	63SE1FU2005	2-1/2"	63SE1FU2505
63	M63	63E1FU5	2-1/2"	63E1FU2505	3"	63E1FU3005
75S	M75	75SE1FU5	2-1/2"	75SE1FU2505	3"	75SE1FU3005
75	M75	75E1FU5	3"	75E1FU3005	3-1/2"	75E1FU3505
90	M90	90E1FU5	3-1/2"	90E1FU3505	4"	90E1FU4005
100	M100	100E1FU5	3-1/2"	100E1FU3505	4"	100E1FU4005
115	M115	115E1FU5	4"	115E1FU4005	5"	115E1FU5005
130	M130	130E1FU5	5"	130E1FU5005	—	—

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

E1FU Series Triple Certified Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: C-GB.A07.B.02515/20

INMETRO Certifications

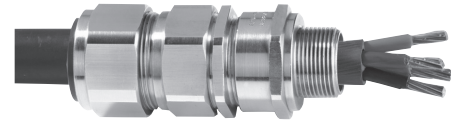
- INMETRO Certificate: TUV 12.0618X, for INMETRO marking, add B after E1FX. Example: 20E1FXB5

EAC Certifications

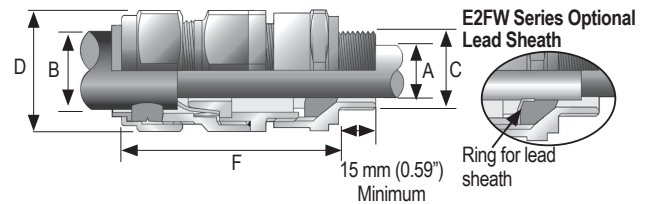
- EAC Certificate: C-GB.A07.B.02519/20; for EAC marking, add U after E1FX. Example: 20E1FXU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats (mm (in) D Max.	Across Corners (mm (in) D Max.	Nominal Protusion Length (mm (in) F	Optional PVC Shroud	Weight (kg (oz)
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15,0 (0,59)	19,9 (0,78)	3,1 (0,12)	8,6 (0,34)	6,1 (0,24)	13,1 (0,52)	24,0 (0,95)	26,4 (1,04)	72,5 (2,85)	PVC04	0,16 (5,64)
20S	15,0 (0,59)	19,9 (0,78)	6,1 (0,24)	11,6 (0,46)	9,5 (0,37)	15,9 (0,63)	24,0 (0,95)	26,4 (1,04)	70,0 (2,76)	PVC04	0,15 (5,29)
20	15,0 (0,59)	19,9 (0,78)	6,5 (0,26)	13,9 (0,55)	12,5 (0,49)	20,9 (0,82)	30,5 (1,20)	33,6 (1,32)	73,0 (2,87)	PVC06	0,21 (7,41)
25S	15,0 (0,59)	20,2 (0,80)	11,1 (0,44)	19,9 (0,78)	14,0 (0,55)	22,0 (0,87)	37,5 (1,48)	41,3 (1,63)	89,0 (3,50)	PVC09	0,33 (11,64)
25	15,0 (0,59)	20,2 (0,80)	11,1 (0,44)	19,9 (0,78)	18,2 (0,72)	26,2 (1,03)	37,5 (1,48)	41,3 (1,63)	89,0 (3,50)	PVC09	0,33 (11,64)
32	15,0 (0,59)	25,0 (0,98)	17,0 (0,67)	26,2 (1,03)	23,7 (0,93)	33,9 (1,33)	46,0 (1,81)	50,6 (1,99)	86,0 (3,39)	PVC11	0,43 (15,17)
40	15,0 (0,59)	25,6 (1,01)	22,0 (0,87)	32,1 (1,26)	27,9 (1,10)	40,4 (1,59)	55,0 (2,17)	60,5 (2,38)	90,0 (3,54)	PVC15	0,62 (21,87)
50S	15,0 (0,59)	26,1 (1,03)	29,5 (1,16)	38,1 (1,50)	35,2 (1,39)	46,7 (1,84)	60,0 (2,36)	66,0 (2,60)	91,0 (3,58)	PVC18	0,75 (26,46)
50	15,0 (0,59)	26,9 (1,06)	35,6 (1,40)	44,0 (1,73)	40,4 (1,59)	53,0 (2,09)	70,1 (2,76)	77,1 (3,04)	95,0 (3,74)	PVC21	0,95 (33,51)
63S	15,0 (0,59)	26,9 (1,06)	40,1 (1,58)	49,9 (1,96)	45,6 (1,80)	59,4 (2,34)	75,0 (2,96)	82,5 (3,25)	102,0 (4,02)	PVC23	1,34 (47,27)
63	15,0 (0,59)	39,9 (1,57)	47,2 (1,86)	55,9 (2,20)	54,6 (2,15)	65,8 (2,59)	80,0 (2,96)	88,0 (3,25)	104,0 (4,09)	PVC25	1,34 (47,27)
75S	15,0 (0,59)	39,9 (1,57)	52,8 (2,08)	61,9 (2,44)	59,0 (2,32)	72,0 (2,83)	90,0 (3,55)	99,0 (3,90)	115,0 (4,53)	PVC28	2,11 (74,43)
75	15,0 (0,59)	41,5 (1,63)	59,1 (2,33)	67,9 (2,67)	66,7 (2,63)	78,4 (3,09)	100,0 (3,94)	110,0 (4,33)	117,0 (4,61)	PVC30	2,42 (85,36)
90	24,0 (0,94)	42,8 (1,69)	66,6 (2,62)	78,6 (3,09)	76,2 (3,00)	90,3 (3,56)	114,3 (4,50)	125,4 (4,95)	147,0 (5,79)	PVC32	4,21 (148,50)
100	24,0 (0,94)	42,8 (1,69)	76,0 (2,99)	90,9 (3,58)	86,1 (3,39)	101,4 (3,99)	123,0 (4,85)	135,3 (5,33)	140,0 (5,51)	LSF33	4,45 (156,97)
115	24,0 (0,94)	44,0 (1,73)	86,0 (3,39)	97,9 (3,85)	101,5 (4,00)	110,2 (4,34)	133,4 (5,26)	146,7 (5,78)	162,0 (6,38)	LSF34	6,19 (218,35)
130	24,0 (0,94)	46,8 (1,84)	97,0 (3,82)	114,9 (4,52)	110,2 (4,34)	123,2 (4,85)	152,4 (6,00)	167,6 (6,60)	174,0 (6,85)	LSF35	8,34 (294,19)

Hazardous Location Fittings

TE1FU Series Stainless Steel Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for all types of armored cable certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Cable gland with elastomer seal for use in hazardous areas with all types of armored cable.
- Provides a gas tight seal permitting the compatibility of use with restricted breathing (Type "nR") equipment.
- Allows mechanical cable retention and earth continuity via the cable armor termination.
- Reversible armor cone and AnyWay clamping ring arrangement facilitates remote make off and enables the cable to be disconnected from the equipment.

Standard Materials

- Body: stainless steel
- Seal: halogen free thermoset elastomer

Options

- Aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard 2225, 514B, 50
- CSA Standard: C22.2 No 0, 18, 25, 30, 94, 174, E60079-0, 1, 7
- cCSAus Certified: 1310517

ATEX/IECEx Certifications and Compliances

- Certification Type: Type TE1FU
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1326X, CML 18ATEX4318X
- IECEx Certificate: IECEx CML 18.0183X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

Catalog Numbers						
Cable Gland Size	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
20S16	M20	2016TE1FU5	1/2"	2016TE1FU0505	3/4"	2016TE1FU0755
20S	M20	20STE1FU5	1/2"	20STE1FU0505	3/4"	20STE1FU0755
20	M20	20TE1FU5	1/2"	20TE1FU0505	3/4"	20TE1FU0755
25S	M25	25STE1FU5	3/4"	25STE1FU0755	1"	25STE1FU1005
25	M25	25TE1FU5	3/4"	25TE1FU0755	1"	25TE1FU1005
32	M32	32TE1FU5	1"	32TE1FU1005	1-1/4"	32TE1FU1255
40	M40	40TE1FU5	1-1/4"	40TE1FU1255	1-1/2"	40TE1FU1505
50S	M50	50STE1FU5	1-1/2"	50STE1FU1505	2"	50STE1FU2005
50	M50	50TE1FU5	2"	50TE1FU2005	2-1/2"	50TE1FU2505
63S	M63	63STE1FU5	2"	63STE1FU2005	2-1/2"	63STE1FU2505
63	M63	63TE1FU5	2-1/2"	63TE1FU2505	3"	63TE1FU3005
75S	M75	75STE1FU5	2-1/2"	75STE1FU2505	3"	75STE1FU3005
75	M75	75TE1FU5	3"	75TE1FU3005	3-1/2"	75TE1FU3505
90	M90	90TE1FU5	3-1/2"	90TE1FU3505	4"	90TE1FU4005
100	M100	100TE1FU5	3-1/2"	100TE1FU3505	4"	100TE1FU4005
115	M115	115TE1FU5	4"	115TE1FU4005	5"	115TE1FU5005
130	M130	130TE1FU5	5"	130TE1FU5005	—	—

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

TE1FU Series Stainless Steel Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Enclosure Type 4X | Ex d IIC | Ex e IIC | Ex nR II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates : CML 21UKEX1258X, CML 21UKEX4259X

INMETRO Certifications

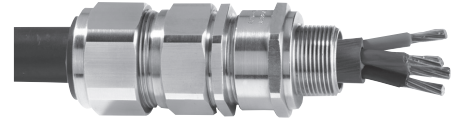
- INMETRO Certificate: TÜV 11.0374-X, for INMETRO marking, add B after TE1FU. Example: 20TE1FUB4

EAC Certifications

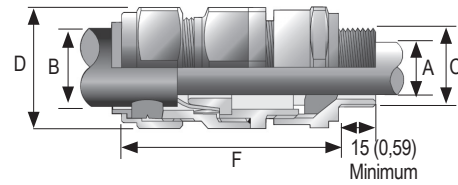
- EAC Certificate C-GB.A07.B.02514/20; for EAC marking, add U after TE1FU. Example: 20TE1FUU4

Other Certifications

- KCs, CCC, CCOE/PESO (Indes), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine : LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats (mm (in) D Max.	Across Corners (mm (in) D Max.	Nominal Protrusion Length (mm (in) F	Optional PVC Shroud	Weight (kg (oz)
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15,0 (0,59)	19,9 (0,78)	3,1 (0,12)	8,6 (0,34)	6,1 (0,24)	13,1 (0,52)	24,0 (0,95)	26,4 (1,04)	57,3 (2,26)	PVC04	0,15 (5,29)
20S	15,0 (0,59)	19,9 (0,78)	6,1 (0,24)	11,6 (0,46)	9,5 (0,37)	15,9 (0,63)	24,0 (0,95)	26,4 (1,04)	57,3 (2,26)	PVC04	0,15 (5,29)
20	15,0 (0,59)	19,9 (0,78)	6,5 (0,26)	13,9 (0,55)	12,5 (0,49)	20,9 (0,82)	30,5 (1,20)	33,6 (1,32)	61,2 (2,41)	PVC06	0,23 (8,11)
25S	15,0 (0,59)	20,2 (0,80)	11,1 (0,44)	19,9 (0,78)	14,0 (0,55)	22,0 (0,87)	37,5 (1,48)	41,3 (1,63)	74,0 (2,91)	PVC09	0,34 (11,99)
25	15,0 (0,59)	20,2 (0,80)	11,1 (0,44)	19,9 (0,78)	18,2 (0,72)	26,2 (1,03)	37,5 (1,48)	41,3 (1,63)	74,0 (2,91)	PVC09	0,34 (11,99)
32	15,0 (0,59)	25,0 (0,98)	17,0 (0,67)	26,2 (1,03)	23,7 (0,93)	33,9 (1,33)	46,0 (1,81)	50,6 (1,99)	78,2 (3,08)	PVC11	0,55 (19,40)
40	15,0 (0,59)	25,6 (1,01)	22,0 (0,87)	32,1 (1,26)	27,9 (1,10)	40,4 (1,59)	55,0 (2,17)	60,5 (2,38)	81,6 (3,21)	PVC15	0,79 (27,87)
50S	15,0 (0,59)	26,1 (1,03)	29,5 (1,16)	38,1 (1,50)	35,2 (1,39)	46,7 (1,84)	60,0 (2,36)	66,0 (2,60)	88,1 (3,47)	PVC18	1,00 (35,27)
50	15,0 (0,59)	26,9 (1,06)	35,6 (1,40)	44,0 (1,73)	40,4 (1,59)	53,0 (2,09)	70,1 (2,76)	77,1 (3,04)	91,2 (3,59)	PVC21	1,37 (48,33)
63S	15,0 (0,59)	26,9 (1,06)	40,1 (1,58)	49,9 (1,96)	45,6 (1,80)	59,4 (2,34)	75,0 (2,96)	82,5 (3,25)	90,5 (3,56)	PVC23	1,50 (52,91)
63	15,0 (0,59)	39,9 (1,57)	47,2 (1,86)	55,9 (2,20)	54,6 (2,15)	65,8 (2,59)	80,0 (3,15)	88,0 (3,47)	90,3 (3,56)	PVC25	1,56 (55,03)
75S	15,0 (0,59)	39,9 (1,57)	52,8 (2,08)	61,9 (2,44)	59,0 (2,32)	72,0 (2,83)	90,0 (3,55)	99,0 (3,90)	104,7 (4,12)	PVC28	2,45 (86,42)
75	15,0 (0,59)	41,5 (1,63)	59,1 (2,33)	67,9 (2,67)	66,7 (2,63)	78,4 (3,09)	100,0 (3,94)	110,0 (4,33)	110,8 (4,36)	PVC30	3,15 (111,11)
90	24,0 (0,94)	42,8 (1,69)	66,6 (2,62)	78,6 (3,09)	76,2 (3,00)	90,3 (3,56)	115,0 (4,53)	126,5 (4,98)	135,5 (5,33)	PVC32	4,62 (162,97)
100	24,0 (0,94)	42,8 (1,69)	76,0 (2,99)	90,9 (3,58)	86,1 (3,39)	101,4 (3,99)	127,0 (5,00)	139,7 (5,50)	126,8 (4,99)	LSF33	4,95 (174,61)
115	24,0 (0,94)	44,0 (1,73)	86,0 (3,39)	97,9 (3,85)	101,5 (4,00)	110,2 (4,34)	138,0 (5,44)	151,8 (5,98)	157,5 (6,20)	LSF34	7,60 (268,08)
130	24,0 (0,94)	46,8 (1,84)	97,0 (3,82)	114,9 (4,52)	110,2 (4,34)	123,2 (4,85)	157,0 (6,19)	172,7 (6,80)	164,5 (6,48)	LSF35	8,73 (307,94)

T3 Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Ex d IIC | Ex e IIC | Ex nR IIC | Enclosure Type 3, 4, 4X
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for all types of armored cable certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Cable gland with elastomer seal for use in hazardous areas with all types of armored cable.
- This product utilizes a unique compensating displacement seal (CDS) system which provides full compatibility with restricted breathing equipment.
- The cable gland provides mechanical cable retention and earth continuity via cable armor termination.
- A reversible armor cone and AnyWay universal clamping ring arrangement allows the cable to be easily disconnected from equipment.
- Inspection of the armor can be carried out while still maintaining the protection mode of the enclosure.

Standard Materials

- Body: nickel plated brass
- Seal: inner CDS (compensating displacement seal) elastomeric compensating displacement seal and exterior LRS (load retention seal) retention seal

Options

- 316L stainless steel version: replace last digit 5 with 4
- Lead sheath version: replace T3 with T3PB
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL514B
- CSA Standard: C22.2 No 0, 18, 25, 30, 94, 174
- cCSAus Certified: 1310517

ATEX/IECEx Certifications and Compliances

- Certification Type: Type T3** and TE**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da

Cable Gland Size	Catalog Numbers					
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①
20S16	M20	2016T35	1/2"	2016T30505	3/4"	2016T30755
20S	M20	20ST35	1/2"	20ST30505	3/4"	20ST30755
20	M20	20T35	1/2"	20T30505	3/4"	20T30755
25S	M25	25ST35	3/4"	25ST30755	1"	25ST31005
25	M25	25T35	3/4"	25T30755	1"	25T31005
32	M32	32T35	1"	32T31005	1-1/4"	32T31255
40	M40	40T35	1-1/4"	40T31255	1-1/2"	40T31505
50S	M50	50ST35	1-1/2"	50ST31505	2"	50ST32005
50	M50	50T35	2"	50T32005	2-1/2"	50T32505
63S	M63	63ST35	2"	63ST32005	2-1/2"	63ST32505
63	M63	63T35	2-1/2"	63T32505	3"	63T33005
75S	M75	75ST35	2-1/2"	75ST32505	3"	75ST33005
75	M75	75T35	3"	75T33005	3-1/2"	75T33505
90	M90	90T35	3-1/2"	90T33505	4"	90T34005
100	M100	100T35	3-1/2"	100T33505	4"	100T34005
115	M115	115T35	4"	115T34005	5"	115T35005
130	M130	130T35	5"	130T35005	—	—

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

T3 Series Nickel Plated Brass Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 2, Groups E, F, G | Class III | Ex d IIC | Ex e IIC | Ex nR IIC | Enclosure Type 3, 4, 4X
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +130 °C (-76 °F to +266 °F)
- ATEX Certificate: CML 18ATEX1326X, CML 18ATEX4318X
- IECEx Certificate: IECEx CML 18.0183X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68 ①
- Deluge Protection Compliance: DTS01:91



UKEX Certifications

- UKEX Certificates: CML 21UKEX1258X, CML 21UKEX4259X

INMETRO Certifications

- INMETRO Certificate: TÜV 11.0374X, for INMETRO marking, add B after T3. Example: 20T3UB5

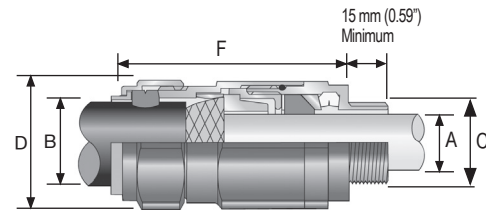
EAC Certifications

- EAC Certificate: C-GB.AQ07.B.04599/22; for EAC marking, add U after T3. Example: 20T3U5

Other Certifications

- CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats (mm (in) D Max.	Across Corners (mm (in) D Max.	Nominal Protrusion Length (mm (in) F	Optional PVC Shroud	Weight (kg (oz)
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15 (0.59)	19.8 (0.78)	3.0 (0.12)	8.6 (0.34)	6.1 (0.24)	13.1 (0.52)	24.0 (0.95)	26.4 (1.04)	78.7 (3.10)	PVC36	0.20 (7.06)
20S	15 (0.59)	19.8 (0.78)	6.1 (0.24)	11.7 (0.46)	9.5 (0.37)	15.9 (0.63)	24.0 (0.95)	26.4 (1.04)	78.7 (3.10)	PVC36	0.20 (6.91)
20	15 (0.59)	19.8 (0.78)	6.6 (0.26)	14.0 (0.55)	12.5 (0.49)	20.9 (0.82)	30.5 (1.2)	33.6 (1.32)	76.2 (3.00)	PVC06	0.28 (9.77)
25S	15 (0.59)	20.3 (0.8)	11.2 (0.44)	19.8 (0.78)	14.0 (0.55)	22.0 (0.87)	37.5 (1.48)	41.3 (1.63)	88.8 (3.50)	PVC09	0.44 (15.34)
25	15 (0.59)	20.3 (0.8)	11.2 (0.44)	19.8 (0.78)	18.2 (0.72)	26.2 (1.03)	37.5 (1.48)	41.3 (1.63)	88.7 (3.49)	PVC09	0.44 (15.34)
32	15 (0.59)	24.9 (0.98)	17.0 (0.67)	26.2 (1.03)	23.7 (0.93)	33.9 (1.33)	46.0 (1.81)	50.6 (1.99)	90.7 (3.57)	PVC11	0.63 (22.33)
40	15 (0.59)	25.7 (1.01)	22.1 (0.87)	32.0 (1.26)	27.9 (1.1)	40.4 (1.59)	55.0 (2.17)	60.5 (2.38)	93.2 (3.67)	PVC15	0.91 (31.92)
50S	15 (0.59)	26.2 (1.03)	29.5 (1.16)	38.1 (1.50)	35.2 (1.39)	46.7 (1.84)	60.0 (2.36)	66.0 (2.6)	100.7 (3.96)	PVC18	1.12 (39.65)
50	15 (0.59)	26.9 (1.06)	35.6 (1.40)	43.9 (1.73)	40.4 (1.59)	53.0 (2.09)	70.1 (2.76)	77.1 (3.04)	105.8 (4.17)	PVC21	1.60 (56.58)
63S	15 (0.59)	26.9 (1.06)	40.1 (1.58)	50.0 (1.97)	45.6 (1.8)	59.4 (2.34)	75.0 (2.96)	82.5 (3.25)	102.5 (4.04)	PVC23	1.73 (61.1)
63	15 (0.59)	39.9 (1.57)	47.2 (1.86)	55.9 (2.20)	54.6 (2.15)	65.8 (2.59)	80.0 (3.15)	88.0 (3.47)	105.4 (4.15)	PVC25	1.78 (62.72)
75S	15 (0.59)	39.9 (1.57)	52.8 (2.08)	62.0 (2.44)	59.0 (2.32)	72.0 (2.83)	90.0 (3.55)	99.0 (3.9)	110.6 (4.35)	PVC28	2.57 (90.7)
75	15 (0.59)	41.4 (1.63)	59.2 (2.33)	67.8 (2.67)	66.7 (2.63)	78.4 (3.09)	100.0 (3.94)	110.0 (4.33)	120.3 (4.74)	PVC30	3.33 (117.93)
90	24 (0.94)	42.9 (1.69)	66.5 (2.62)	78.5 (3.09)	76.2 (3)	90.3 (3.56)	115.0 (4.53)	126.5 (4.98)	138.9 (5.47)	PVC32	4.87 (171.73)
100	24 (0.94)	42.9 (1.69)	75.9 (2.99)	90.9 (3.58)	86.1 (3.39)	101.4 (3.99)	127.0 (5)	139.7 (5.5)	128.2 (5.05)	LSF33	4.97 (175.28)
115	24 (0.94)	43.9 (1.73)	86.1 (3.39)	97.8 (3.85)	101.5 (4)	110.2 (4.34)	138.0 (5.44)	151.8 (5.98)	161.3 (6.35)	LSF34	7.72 (272.35)
130	24 (0.94)	46.7 (1.84)	97.0 (3.82)	114.8 (4.52)	110.2 (4.34)	123.2 (4.85)	157.0 (6.19)	172.7 (6.8)	173.3 (6.82)	LSF35	9.78 (344.37)

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

PX (PXSS2K) Series Compound Barrier Type Cable Connector

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmoured Cables.

NEC/CEC: Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Flameproof, Class I cable connector suitable for unarmored, extra hard usage, tray (TC) and shipboard cables.
- Certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Connector provides an environmental seal on the cable jacket and an explosionproof compound barrier seal around the cable inner cores.

Standard Materials

- Connector: brass fully nickel plated
- Outer seal nut: consists of an elastomeric seal and nylon skid washer
- Epoxy putty

Options

- Aluminum: replace last digit suffix 5 with 1
- 316L stainless steel: replace last digit suffix 5 with 4
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL 2225, UL 514B, UL 60079-0, UL 60079-7
- UL Listed: E201187, E161256, E253914
- CSA Standard: C22.2 No 0, 18, 25, 30, 174, 94
- cCSAus Certified: 2288626

ATEX/IECEx Certifications and Compliances

- Certification Type: Type PX**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +85 °C (-76 °F to +185 °F)

Cable Gland Size	Catalog Numbers						Maximum Number of Cores
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①	
20S16	M20	2016PX5	1/2	2016PX0505	3/4	2016PX0755	21
20S	M20	20SPX5	1/2	20SPX0505	3/4	20SPX0755	21
20	M20	20PX5	1/2	20PX0505	3/4	20PX0755	21
20L	M21	20LPX5	1/2	20LPX0505	3/4	20LPX0755	21
25	M25	25PX5	3/4	25PX0755	1	25PX1005	30
32	M32	32PX5	1	32PX1005	1-1/4	32PX1255	38
32L	M32	32LPX5	1	32LPX1005	1-1/4	32LPX1255	38
40	M40	40PX5	1-1/4	40PX1255	1-1/2	40PX1505	59
50S	M50	50SPX5	1-1/2	50SPX1505	2	50SPX2005	89
50	M50	50PX5	2	50PX2005	2-1/2	50PX2505	115
63S	M63	63SPX5	2	63SPX2005	2-1/2	63SPX2505	115
63	M63	63PX5	2-1/2	63PX2505	3	63PX3005	115
75S	M75	75SPX5	2-1/2	75SPX2505	3	75SPX3005	140
75	M75	75PX5	3	75PX3005	3.5	75PX3505	140
90	M90	90PX5	3-1/2	90PX3505	4	90PX4005	140

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

PX (PXSS2K) Series Compound Barrier Type Cable Connector

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmoured Cables.

NEC/CEC: Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEX : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

- ATEX Certificate: CML 18ATEX1325X, CML 18ATEX4317X
- IECEX Certificate: IECEX CML 18.0182X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

UKEX Certifications

- UKEX Certificates: CML 21UKEX1214X, CML 21UKEX4215X

INMETRO Certifications

- INMETRO Certificate: TUV 12.2073X, for INMETRO marking, add B after PX. Example: 20PXB5

EAC Certifications

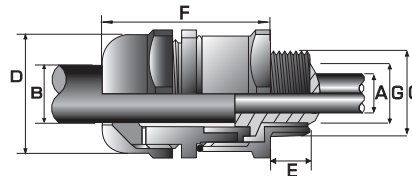
- EAC Certificate: C-GB.A07.B.04595/22; for EAC marking, add U after PX. Example: 20PXU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats (mm (in) D Max.	Across Corners (mm (in) D Max.	Nominal Protrusion Length (mm (in) F	Optional PVC Shroud	Weight (kg (oz)
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15.0 (0.59)	19.9 (0.78)	8.6 (0.34)	8.60 (0.34)	6.1 (0.24)	13.1 (0.52)	30.0 (1.18)	33.0 (1.30)	53.1 (2.09)	PVC06	0.20 (7.06)
20S	15.0 (0.59)	19.9 (0.78)	11.7 (0.46)	11.70 (0.46)	9.5 (0.37)	15.9 (0.63)	30.0 (1.18)	33.0 (1.30)	53.1 (2.09)	PVC06	0.20 (7.06)
20	15.0 (0.59)	19.9 (0.78)	12.6 (0.50)	12.90 (0.50)	12.5 (0.49)	20.9 (0.82)	30.0 (1.18)	33.0 (1.30)	54.2 (2.13)	PVC06	0.20 (7.06)
20L	15.0 (0.59)	19.9 (0.78)	12.6 (0.50)	12.90 (0.50)	14.0 (0.55)	22.0 (0.87)	30.0 (1.18)	33.0 (1.30)	54.2 (2.13)	PVC06	0.20 (7.06)
25	15.0 (0.59)	20.2 (0.80)	17.5 (0.69)	17.90 (0.69)	18.2 (0.72)	26.2 (1.03)	36.0 (1.42)	39.6 (1.56)	60.0 (2.36)	PVC09	0.33 (11.64)
32	15.0 (0.59)	25.0 (0.98)	23.6 (0.93)	23.90 (0.93)	23.7 (0.93)	33.9 (1.33)	41.0 (1.62)	45.1 (1.78)	61.1 (2.41)	PVC10	0.39 (13.76)
32L	15.0 (0.59)	25.0 (0.98)	23.6 (0.93)	23.90 (0.93)	27.9 (1.10)	40.4 (1.59)	41.0 (1.62)	45.1 (1.78)	61.1 (2.41)	PVC10	0.39 (13.76)
40	15.0 (0.59)	25.6 (1.01)	30.0 (1.18)	30.30 (1.18)	35.2 (1.39)	46.7 (1.84)	50.0 (1.97)	55.0 (2.17)	62.4 (2.46)	PVC13	0.56 (19.75)
50S	15.0 (0.59)	26.1 (1.03)	36.6 (1.44)	36.90 (1.44)	40.4 (1.59)	53.0 (2.09)	55.0 (2.17)	60.5 (2.38)	65.2 (2.57)	PVC15	0.66 (23.28)
50	15.0 (0.59)	26.9 (1.06)	41.0 (1.61)	41.30 (1.61)	45.6 (1.80)	59.4 (2.34)	60.0 (2.36)	66.0 (2.60)	67.6 (2.66)	PVC18	0.73 (25.75)
63S	15.0 (0.59)	26.9 (1.06)	47.9 (1.89)	48.40 (1.89)	54.6 (2.15)	65.8 (2.59)	70.0 (2.76)	77.0 (3.03)	71.1 (2.80)	PVC21	1.07 (37.74)
63	15.0 (0.59)	39.9 (1.57)	53.7 (2.11)	54.00 (2.11)	59.0 (2.32)	72.0 (2.83)	75.0 (2.96)	82.5 (3.25)	70.4 (2.77)	PVC23	1.06 (37.39)
75S	15.0 (0.59)	39.9 (1.57)	59.9 (2.36)	60.20 (2.36)	66.7 (2.63)	78.4 (3.09)	80.0 (3.15)	88.0 (3.47)	75.3 (2.97)	PVC25	1.30 (45.86)
75	15.0 (0.59)	41.5 (1.63)	64.3 (2.53)	64.20 (2.53)	76.2 (3.00)	90.3 (3.56)	85.0 (3.35)	93.5 (3.68)	74.9 (2.95)	PVC27	1.30 (45.86)
90	20.0 (0.79)	42.8 (1.69)	75.3 (2.96)	75.60 (2.96)	86.1 (3.39)	101.4 (3.99)	108.0 (4.26)	118.8 (4.68)	94.8 (3.73)	PVC31	3.02 (106.53)

Hazardous Location Fittings

PX-REX (PXSS2K-REX) Series Liquid Resin Barrier Type Cable Connector

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmoured Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Flame proof Class I cable connector suitable for unarmored, extra hard usage, tray (TC) and shipboard cables.
- Certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Utilizes RapidEx high speed liquid resin sealing compound included with each gland.
- The gland utilizes a liquid pour resin seal that vastly reduces installation time and associated costs. This solution is particularly effective on multicore cables where traditional compound is difficult and time consuming to apply.
- Connector provides an environmental seal on the cable jacket and an explosionproof liquid resin barrier seal around the cable inner cores.

Standard Materials

- Connector: brass fully nickel plated
- Outer seal nut: consists of an elastomeric seal and nylon skid washer
- High speed liquid resin sealing compound

Options

- Aluminum: replace last digit 5 with 1
- 316L stainless steel: replace last digit 5 with 4
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages

NEC/CEC Certifications and Compliances

- UL Standard: UL 514B Ed 5, UL 50 Ed 11, UL 2225 Ed 4, UL60079-0:07
- CSA Standard: CSA-C22.2 No 0, 18,25,30,94,174; CSA-E60079-0,1,7,31; CSA-E61241-1-1, Part 1-1
- cCSAus Certified: 2288626

ATEX/IECEx Certifications and Compliances

- Certification Type: Type PX**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +85 °C (-76 °F to +185 °F)
- ATEX Certificate: CML 18ATEX1325X, CML 18ATEX4317X
- IECEx Certificate: IECEx CML 18.0182X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

Cable Gland Size	Catalog Numbers †						Résine de remplacement	Maximum Number of Cores
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①		
20S16	M20	2016PXREX5X	1/2	2016PXREX0505X	3/4	2016PXREX0755X	RAPIDEX30P	21
20S	M20	20SPXREX5X	1/2	20SPXREX0505X	3/4	20SPXREX0755X	RAPIDEX30P	21
20	M20	20PXREX5X	1/2	20PXREX0505X	3/4	20PXREX0755X	RAPIDEX30P	21
20L	M21	20LPXREX5X	1/2	20LPXREX0505X	3/4	20LPXREX0755X	RAPIDEX30P	21
25	M25	25PXREX5X	3/4	25PXREX0755X	1	25PXREX1005X	RAPIDEX30P	30
32	M32	32PXREX5X	1	32PXREX1005X	1-1/4	32PXREX1255X	RAPIDEX30P	38
32L	M32	32LPXREX5X	1	32LPXREX1005X	1-1/4	32LPXREX1255X	RAPIDEX30P	38
40	M40	40PXREX5X	1-1/4	40PXREX1255X	1-1/2	40PXREX1505X	RAPIDEX30P	59
50S	M50	50SPXREX5X	1-1/2	50SPXREX1505X	2	50SPXREX2005X	RAPIDEX80P	89
50	M50	50PXREX5X	2	50PXREX2005X	2-1/2	50PXREX2505X	RAPIDEX80P	115
63S	M63	63SPXREX5X	2	63SPXREX2005X	2-1/2	63SPXREX2505X	2RAPIDEX80P	115
63	M63	63PXREX5X	2-1/2	63PXREX2505X	3	63PXREX3005X	2RAPIDEX80P	115
75S	M75	75SPXREX5X	2-1/2	75SPXREX2505X	3	75SPXREX3005X	2RAPIDEX80P	140
75	M75	75PXREX5X	3	75PXREX3005X	3.5	75PXREX3505X	3RAPIDEX80P	140
90	M90	90PXREX5X	3-1/2	90PXREX3505X	4	90PXREX4005X	3RAPIDEX80P	140

† For orders in Europe, remove -X.

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

PX-REX (PXSS2K-REX) Series Liquid Resin Barrier Type Cable Connector

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Unarmoured Cables.

NEC/CEC: Class I, Division 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: CML 21UKEX1214X, CML 21UKEX4215X

INMETRO Certifications

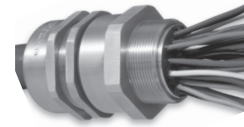
- INMETRO Certificate: TUV 12.2073X, for INMETRO marking, add B after PXREX. Example: 20PXREXB5

EAC Certifications

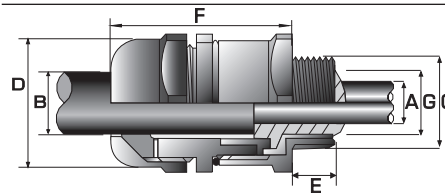
- EAC Certificate: C-GB.A07.B.04595/22; for EAC marking, add U after PXREX. Example: 20PXREXU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats (mm (in) D Max.	Across Corners (mm (in) D Max.	Nominal Protrusion Length (mm (in) F	Optional PVC Shroud	Weight (kg (oz)
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15.0(0.59)	19.9(0.78)	8.6(0.34)	8.60(0.34)	6.1(0.24)	13.1(0.52)	30.0(1.18)	33.0(1.30)	53.1(2.09)	PVC06	0.20(7.06)
20S	15.0(0.59)	19.9(0.78)	11.7(0.46)	11.70(0.46)	9.5(0.37)	15.9(0.63)	30.0(1.18)	33.0(1.30)	53.1(2.09)	PVC06	0.20(7.06)
20	15.0(0.59)	19.9(0.78)	12.6(0.50)	12.90(0.50)	12.5(0.49)	20.9(0.82)	30.0(1.18)	33.0(1.30)	54.2(2.13)	PVC06	0.20(7.06)
20L	15.0(0.59)	19.9(0.78)	12.6(0.50)	12.90(0.50)	14.0(0.55)	22.0(0.87)	30.0(1.18)	33.0(1.30)	54.2(2.13)	PVC06	0.20(7.06)
25	15.0(0.59)	20.2(0.80)	17.5(0.69)	17.90(0.69)	18.2(0.72)	26.2(1.03)	36.0(1.42)	39.6(1.56)	60.0(2.36)	PVC09	0.33(11.64)
32	15.0(0.59)	25.0(0.98)	23.6(0.93)	23.90(0.93)	23.7(0.93)	33.9(1.33)	41.0(1.62)	45.1(1.78)	61.1(2.41)	PVC10	0.39(13.76)
32L	15.0(0.59)	25.0(0.98)	23.6(0.93)	23.90(0.93)	27.9(1.10)	40.4(1.59)	41.0(1.62)	45.1(1.78)	61.1(2.41)	PVC10	0.39(13.76)
40	15.0(0.59)	25.6(1.01)	30.0(1.18)	30.30(1.18)	35.2(1.39)	46.7(1.84)	50.0(1.97)	55.0(2.17)	62.4(2.46)	PVC13	0.56(19.75)
50S	15.0(0.59)	26.1(1.03)	36.6(1.44)	36.90(1.44)	40.4(1.59)	53.0(2.09)	55.0(2.17)	60.5(2.38)	65.2(2.57)	PVC15	0.66(23.28)
50	15.0(0.59)	26.9(1.06)	41.0(1.61)	41.30(1.61)	45.6(1.80)	59.4(2.34)	60.0(2.36)	66.0(2.60)	67.6(2.66)	PVC18	0.73(25.75)
63S	15.0(0.59)	26.9(1.06)	47.9(1.89)	48.40(1.89)	54.6(2.15)	65.8(2.59)	70.0(2.76)	77.0(3.03)	71.1(2.80)	PVC21	1.07(37.74)
63	15.0(0.59)	39.9(1.57)	53.7(2.11)	54.00(2.11)	59.0(2.32)	72.0(2.83)	75.0(2.96)	82.5(3.25)	70.4(2.77)	PVC23	1.06(37.39)
75S	15.0(0.59)	39.9(1.57)	59.9(2.36)	60.20(2.36)	66.7(2.63)	78.4(3.09)	80.0(3.15)	88.0(3.47)	75.3(2.97)	PVC25	1.30(45.86)
75	15.0(0.59)	41.5(1.63)	64.3(2.53)	64.20(2.53)	76.2(3.00)	90.3(3.56)	85.0(3.35)	93.5(3.68)	74.9(2.95)	PVC27	1.30(45.86)
90	20.0(0.79)	42.8(1.69)	75.3(2.96)	75.60(2.96)	86.1(3.39)	101.4(3.99)	108.0(4.26)	118.8(4.68)	94.8(3.73)	PVC31	3.02(106.53)

Hazardous Location Fittings

PX2K Series Nickel Plated Brass Compound Barrier Type Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 1 and 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for all types of armored cables (braid, tape, wire and lead sheath version) certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Cable gland with compound barrier seal for use in hazardous areas with all types of armored cables (braid, tape and wire).
- The cable gland provides mechanical cable retention and earth continuity via cable armor termination.
- The cable gland is IP66/68 and complies with deluge protection tests.

Standard Materials

- Body: nickel plated brass
- Outer seal nut: consists of an elastomeric seal and nylon identification ferrule
- Epoxy resin barrier compound

Options

- 316L stainless steel version: replace last digit 5 with 4
- Lead sheath version: Replace PX2K with PX2KPB
- Copperfree aluminum: replace last digit 5 with 1
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL 514B Ed 5, UL 50 Ed 11, UL 2225 Ed 4, UL60079
- UL Listed: E201187, E161256
- CSA Standard: CSA-C22.2 No 0,18,25,30,94,174; CSA-E60079-0,1,7,31; CSA-E61241-1-1, Part 1-1
- cCSAus Certified: 2288626

ATEX/IECEx Certifications and Compliances

- Certification Type: Type PX**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +85 °C (-76 °F to +185 °F)
- ATEX Certificate: CML 18ATEX1325X, CML 18ATEX4317X
- IECEx Certificate: IECEx CML 18.0182X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91

Cable Gland Size	Catalog Numbers						Maximum Number of Cores
	Metric Thread C	Standard Metric ①	Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①	
20S16	M20	2016PX2K5	1/2	2016PX2K0505	3/4	2016PX2K0505	21
20S	M20	20SPX2K5	1/2	20SPX2K0505	3/4	20SPX2K0755	21
20	M20	20PX2K5	1/2	20PX2K0505	3/4	20PX2K0755	21
25S	M25	25SPX2K5	3/4	25SPX2K0755	1	25SPX2K1005	30
25	M25	25PX2K5	3/4	25PX2K0755	1	25PX2K1005	30
32	M32	32PX2K5	1	32PX2K1005	1-1/4	32PX2K1255	38
40	M40	40PX2K5	1-1/4	40PX2K1255	1-1/2	40PX2K1505	59
50S	M50	50SPX2K5	1-1/2	50SPX2K1505	2	50SPX2K2005	89
50	M50	50PX2K5	2	50PX2K2005	2-1/2	50PX2K2505	115
63S	M63	63SPX2K5	2	63SPX2K2005	2-1/2	63SPX2K2505	115
63	M63	63PX2K5	2-1/2	63PX2K2505	3	63PX2K3005	115
75S	M75	75SPX2K5	2-1/2	75SPX2K2505	3	75SPX2K3005	140
75	M75	75PX2K5	3	75PX2K3005	3-1/2	75PX2K3505	140
90	M90	90PX2K5	3-1/2	90PX2K3505	4	90PX2K4005	140

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

PX2K Series Nickel Plated Brass Compound Barrier Type Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 1 and 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G | Class III, Division 1 and 2 | Type 4X: Oil Resistant
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

UKEX Certifications

- UKEX Certificates: CML 21UKEX1214X, CML 21UKEX4215X

INMETRO Certifications

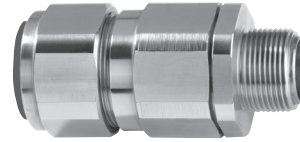
- INMETRO Certificate: TUV 12.2073X, for INMETRO marking, add B after PX. Example: 20PX2KB5

EAC Certifications

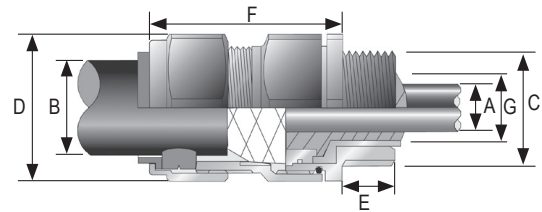
- EAC Certificate: C-GB.A07.B.04595/22; for EAC marking, add U after PX. Example: 20PX2KU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS



Dimensions in Millimeters (Inches)



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats mm (in) D Max.	Across Corners mm (in) D Max.	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight (kg (oz))
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15.0 (0.59)	19.9 (0.78)	11.7 (0.46)	11.70 (0.46)	6.1 (0.24)	13.1 (0.52)	30.5 (1.20)	33.6 (1.32)	62.0 (2.44)	PVC06	0.24 (8.47)
20S	15.0 (0.59)	19.9 (0.78)	11.7 (0.46)	11.70 (0.46)	9.5 (0.37)	15.9 (0.63)	30.5 (1.20)	33.6 (1.32)	62.0 (2.44)	PVC06	0.23 (8.11)
20	15.0 (0.59)	19.9 (0.78)	12.6 (0.50)	12.90 (0.51)	12.5 (0.49)	20.9 (0.82)	30.5 (1.20)	33.6 (1.32)	63.0 (2.48)	PVC06	0.24 (8.47)
25S	15.0 (0.59)	20.2 (0.80)	17.5 (0.69)	17.90 (0.70)	14.0 (0.55)	22.0 (0.87)	37.5 (1.48)	41.3 (1.63)	69.5 (2.74)	PVC09	0.37 (13.05)
25	15.0 (0.59)	20.2 (0.80)	17.5 (0.69)	17.90 (0.70)	18.2 (0.72)	26.2 (1.03)	37.5 (1.48)	41.3 (1.63)	69.5 (2.74)	PVC09	0.37 (13.05)
32	15.0 (0.59)	25.0 (0.98)	23.6 (0.93)	23.90 (0.94)	23.7 (0.93)	33.9 (1.33)	46.0 (1.81)	50.6 (1.99)	75.0 (2.95)	PVC11	0.57 (20.11)
40	15.0 (0.59)	25.0 (0.98)	30.0 (1.18)	30.30 (1.19)	27.9 (1.10)	40.4 (1.59)	55.0 (2.17)	60.5 (2.38)	75.0 (2.95)	PVC15	0.80 (28.22)
50S	15.0 (0.59)	25.6 (1.01)	36.6 (1.44)	36.90 (1.45)	35.2 (1.39)	46.7 (1.84)	60.0 (2.36)	66.0 (2.60)	77.0 (3.03)	PVC18	0.90 (31.75)
50	15.0 (0.59)	26.1 (1.03)	41.0 (1.61)	41.30 (1.63)	40.4 (1.59)	53.0 (2.09)	70.0 (2.76)	77.0 (3.03)	77.0 (3.03)	PVC21	1.19 (41.98)
63S	15.0 (0.59)	26.9 (1.06)	47.9 (1.89)	48.40 (1.91)	45.6 (1.80)	59.4 (2.34)	75.0 (2.96)	82.5 (3.25)	79.7 (3.14)	PVC23	1.39 (49.03)
63	15.0 (0.59)	26.9 (1.06)	53.7 (2.11)	54.00 (2.13)	54.6 (2.15)	65.8 (2.59)	80.0 (3.15)	88.0 (3.47)	80.3 (3.16)	PVC25	1.41 (49.74)
75S	15.0 (0.59)	39.9 (1.57)	59.9 (2.36)	60.20 (2.37)	59.0 (2.32)	72.0 (2.83)	90.0 (3.55)	99.0 (3.90)	86.8 (3.42)	PVC28	2.09 (73.72)
75	15.0 (0.59)	39.9 (1.57)	64.3 (2.53)	64.20 (2.53)	66.7 (2.63)	78.4 (3.09)	100.0 (3.94)	110.0 (4.33)	88.3 (3.48)	PVC30	2.54 (89.60)
90	20.0 (0.79)	41.5 (1.63)	75.3 (2.96)	75.60 (2.98)	76.2 (3.00)	90.3 (3.56)	115.0 (4.53)	126.5 (4.98)	102.1 (4.02)	PVC32	3.71 (130.87)

Hazardous Location Fittings

PX2K-REX Series Liquid Resin Barrier Type Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 1 and 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G, | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Cable gland for all types of armored cables (braid, tape, wire and lead sheath version) certified for enclosures with the following protection modes:
 - Ex d: flameproof IIB or IIC
 - Ex e: increased safety.
 - Ex nR: restricted breathing.
 - Ex d: flameproof.
- Hazardous areas (gas and dust).
- Onshore and offshore.

Features

- Utilizes RapidEx high speed liquid resin sealing compound included with each gland.
- The gland utilizes a liquid pour resin seal, that vastly reduces installation time and associated costs. This solution is particularly effective on multicore cables where traditional compound is difficult and time consuming to apply.
- Connector provides an environmental seal on the cable outer jacket and an explosionproof liquid resin barrier seal around the cable inner cores.
- The cable gland provides mechanical cable retention and earth continuity via cable armor termination.

Standard Materials

- Connector: brass fully nickel plated.
- Outer seal nut: consists of an elastomeric seal and nylon identification ferrule
- High speed liquid resin sealing compound.

Options

- Aluminum: replace last digit 5 with 1
- 316L stainless steel: replace last digit 5 with 4
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL 514B Ed 5, UL 50 Ed 11, UL 2225 Ed 4, UL60079-0,1,7,15,31
- CSA Standard: CSA-C22.2 No 0,18,25,30,94,174; CSA-E60079-0,1,7,31; CSA-E61241-1-1, Part 1-1
- cCSAus Certified: 2288626

ATEX/IECEx Certifications and Compliances

- Certification Type: Type PX**
 - Gas: Zones 1 and 2
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da

Cable Gland Size	Catalog Numbers		Standard NPT Thread C	Standard NPT ①	Optional NPT Thread C	Optional NPT Thread ①	Résine de remplacement	Maximum Number of Cores
	Metric Thread C	Standard Metric ①						
20S16	M20	2016PX2KREX5	1/2	2016PX2KREX0505	3/4	2016PX2KREX0505	RAPIDEX30P	21
20S	M20	20SPX2KREX5	1/2	20SPX2KREX0505	3/4	20SPX2KREX0755	RAPIDEX30P	21
20	M20	20PX2KREX5	1/2	20PX2KREX0505	3/4	20PX2KREX0755	RAPIDEX30P	21
25S	M25	25SPX2KREX5	3/4	25SPX2KREX0755	1	25SPX2KREX1005	RAPIDEX30P	30
25	M25	25PX2KREX5	3/4	25PX2KREX0755	1	25PX2KREX1005	RAPIDEX30P	30
32	M32	32PX2KREX5	1	32PX2KREX1005	1-1/4	32PX2KREX1255	RAPIDEX30P	38
40	M40	40PX2KREX5	1-1/4	40PX2KREX1255	1-1/2	40PX2KREX1505	RAPIDEX30P	59
50S	M50	50SPX2KREX5	1-1/2	50SPX2KREX1505	2	50SPX2KREX2005	RAPIDEX80P	89
50	M50	50PX2KREX5	2	50PX2KREX2005	2-1/2	50PX2KREX2505	RAPIDEX80P	115
63S	M63	63SPX2KREX5	2	63SPX2KREX2005	2-1/2	63SPX2KREX2505	2RAPIDEX80P	115
63	M63	63PX2KREX5	2-1/2	63PX2KREX2505	3	63PX2KREX3005	2RAPIDEX80P	115
75S	M75	75SPX2KREX5	2-1/2	75SPX2KREX2505	3	75SPX2KREX3005	2RAPIDEX80P	140
75	M75	75PX2KREX5	3	75PX2KREX3005	3-1/2	75PX2KREX3505	3RAPIDEX80P	140
90	M90	90PX2KREX5	3-1/2	90PX2KREX3505	4	90PX2KREX4005	3RAPIDEX80P	140
90	M90	90PXREX5	3-1/2	90PXREX3505	4	90PXREX4005	3RAPIDEX80P	140

① Entry thread seal not supplied, see Cable Gland Accessories and Tools.

PX2K-REX Series Liquid Resin Barrier Type Cable Glands

Increased Safety, Flameproof, Restricted Breathing and Dust Locations
For Armored Cables.

NEC/CEC: Class I, Division 1 and 2, Groups A, B, C, D | Class II, Division 1 and 2, Groups E, F, G, | Class III, Division 1 and 2 | Type 4X: Oil Resistant II
ATEX/IECEX : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 3G 1D
- Ambient Temperature: -60 °C to +85 °C (-76 °F to +185 °F)
- ATEX Certificate: CML 18ATEX1325X, CML 18ATEX4317X
- IECEX Certificate: IECEX CML 18.0182X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68
- Deluge Protection Compliance: DTS01:91



UKEX Certifications

- UKEX Certificates: CML 21UKEX1214X, CML 21UKEX4215X

INMETRO Certifications

- INMETRO Certificate: TUV 12.2073X, for INMETRO marking, add B after PX2KREX. Example: 20PX2KREXB5

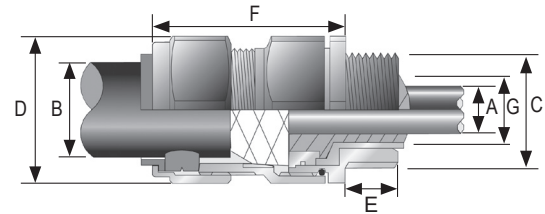
EAC Certifications

- EAC Certificate: C-GB.A07.B.04595/22; for EAC marking, add U after PX2KREX. Example: 20PX2KREXU5

Other Certifications

- KCs, CCC, CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

Dimensions in Millimeters



Cable Gland Size	Thread Length mm (in) E		Cable Bedding mm (in) A		Overall Cable Diameter mm (in) B		Across Flats mm (in) D Max.	Across Corners mm (in) D Max.	Nominal Protrusion Length mm (in) F	Optional PVC Shroud	Weight (kg (oz))
	Metric	NPT	Metric	NPT	Min.	Max.					
20S16	15.0 (0.59)	19.9 (0.78)	11.7 (0.46)	11.70 (0.46)	6.1 (0.24)	13.1 (0.52)	30.5 (1.20)	33.6 (1.32)	62.0 (2.44)	PVC06	0.24 (8.47)
20S	15.0 (0.59)	19.9 (0.78)	11.7 (0.46)	11.70 (0.46)	9.5 (0.37)	15.9 (0.63)	30.5 (1.20)	33.6 (1.32)	62.0 (2.44)	PVC06	0.23 (8.11)
20	15.0 (0.59)	19.9 (0.78)	12.6 (0.50)	12.90 (0.51)	12.5 (0.49)	20.9 (0.82)	30.5 (1.20)	33.6 (1.32)	63.0 (2.48)	PVC06	0.24 (8.47)
25S	15.0 (0.59)	20.2 (0.80)	17.5 (0.69)	17.90 (0.70)	14.0 (0.55)	22.0 (0.87)	37.5 (1.48)	41.3 (1.63)	69.5 (2.74)	PVC09	0.37 (13.05)
25	15.0 (0.59)	20.2 (0.80)	17.5 (0.69)	17.90 (0.70)	18.2 (0.72)	26.2 (1.03)	37.5 (1.48)	41.3 (1.63)	69.5 (2.74)	PVC09	0.37 (13.05)
32	15.0 (0.59)	25.0 (0.98)	23.6 (0.93)	23.90 (0.94)	23.7 (0.93)	33.9 (1.33)	46.0 (1.81)	50.6 (1.99)	75.0 (2.95)	PVC11	0.57 (20.11)
40	15.0 (0.59)	25.0 (0.98)	30.0 (1.18)	30.30 (1.19)	27.9 (1.10)	40.4 (1.59)	55.0 (2.17)	60.5 (2.38)	75.0 (2.95)	PVC15	0.80 (28.22)
50S	15.0 (0.59)	25.6 (1.01)	36.6 (1.44)	36.90 (1.45)	35.2 (1.39)	46.7 (1.84)	60.0 (2.36)	66.0 (2.60)	77.0 (3.03)	PVC18	0.90 (31.75)
50	15.0 (0.59)	26.1 (1.03)	41.0 (1.61)	41.30 (1.63)	40.4 (1.59)	53.0 (2.09)	70.0 (2.76)	77.0 (3.03)	77.0 (3.03)	PVC21	1.19 (41.98)
63S	15.0 (0.59)	26.9 (1.06)	47.9 (1.89)	48.40 (1.91)	45.6 (1.80)	59.4 (2.34)	75.0 (2.96)	82.5 (3.25)	79.7 (3.14)	PVC23	1.39 (49.03)
63	15.0 (0.59)	26.9 (1.06)	53.7 (2.11)	54.00 (2.13)	54.6 (2.15)	65.8 (2.59)	80.0 (3.15)	88.0 (3.47)	80.3 (3.16)	PVC25	1.41 (49.74)
75S	15.0 (0.59)	39.9 (1.57)	59.9 (2.36)	60.20 (2.37)	59.0 (2.32)	72.0 (2.83)	90.0 (3.55)	99.0 (3.90)	86.8 (3.42)	PVC28	2.09 (73.72)
75	15.0 (0.59)	39.9 (1.57)	64.3 (2.53)	64.20 (2.53)	66.7 (2.63)	78.4 (3.09)	100.0 (3.94)	110.0 (4.33)	88.3 (3.48)	PVC30	2.54 (89.60)
90	20.0 (0.79)	41.5 (1.63)	75.3 (2.96)	75.60 (2.98)	76.2 (3.00)	90.3 (3.56)	115.0 (4.53)	126.5 (4.98)	102.1 (4.02)	PVC32	3.71 (130.87)
90	20.0 (0.79)	42.8 (1.69)	75.3 (2.96)	75.60 (2.96)	86.1 (3.39)	101.4 (3.99)	108.0 (4.26)	118.8 (4.68)	94.8 (3.73)	PVC31	3.02 (106.53)

Hazardous Location Fittings

737 Series Adaptors and Reducers

Increased Safety, Flameproof and Dust Locations

Cable Gland Accessories

NEC/CEC: Class 1, Group A, B, C, D | Zone 1, AEx de II | IP66/68 ①
 ATEX/IECEX : Zones 1 and 2 - 20
 Notable: UKEX, INMETRO, EAC Certified

Applications

- A wide range of thread conversion adaptors and reducers for hazardous area applications. Used to connect cable entry devices and equipment having dissimilar threads.
- Care should be taken to ensure that a suitable sealing gasket is also selected and installed, where applicable, to ensure that an effective seal is made at the entry, thereby maintaining the integrity of the enclosure or equipment IP rating.



Features

- Wide range of thread types, sizes and materials.

Standard Materials

- Nickel plated brass

Options

- Copperfree aluminum: replace last digit 5 with 1
- Brass version: remove last digit 5
- 316L stainless steel version: replace last digit 5 with 4
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL50 Edition 11, UL1203 Edition 4, UL 60079-0,1,7
- UL Listed: E214221
- CSA Standard: C22.2 No.0, 0.5, 30, 94, CAN/CSA E60079-0,1, 7, CAN-CSA E61241-1
- cCSAus Certified: 1055233

ATEX/IECEX Certifications and Compliances

- Certification Type: 737
 - Gas: Zones 1
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da

- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 1D
- Operating Temperature: -60 °C to +200 °C (-76 °F to +392 °F)(metallic)
- ATEX Certificate: CML 18ATEX1320X
- IECEX Certificate: IECEX CML 18.0177X, IECEX SIM 15.0002X
- Index of Protection according EN/IEC 60529: IP66, IP67, IP68 (when fitted with seal)

UKEX Certifications

- UKEX Certificates: CML 21UKEX1238X

INMETRO Certifications

- INMETRO Certificate: TÜV 12.1332X, for INMETRO marking, replace D by B. Example: 737UM3M25

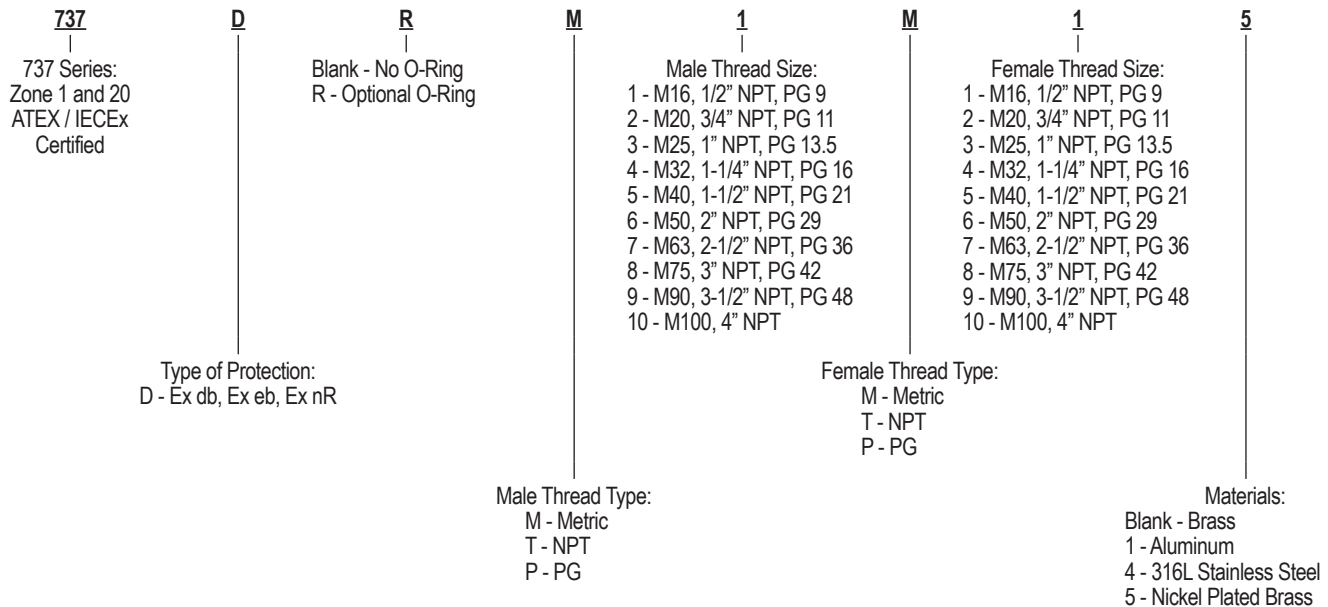
EAC Certifications

- EAC Certificate: C-GB.A07.B.02500/20, for EAC marking, replace D by U. Example: 737BM3M25

Other Certifications

- CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

Catalog Numbering Guide



① IP68 with entry thread seal or O-Ring not supplied, see Cable Gland Accessories and Tools.

737 Series Adaptors and Reducers

Increased Safety, Flameproof and Dust Locations
Cable Gland Accessories

NEC/CEC: Class 1, Group A, B, C, D | Zone 1, AEx de II | IP66/68 ①
ATEX/IECEx : Zones 1 and 2 - 20
Notable: UKEX, INMETRO, EAC Certified

Sizing Table

Size	Female Thread																														
	M16	M20	M25	M32	M40	M50	M63	M75	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48	1/2" NPT / NPS (M)	3/4" NPT / NPS (M)	1" NPT / NPS (M)	1 1/4" NPT / NPS (M)	1 1/2" NPT / NPS (M)	2" NPT / NPS (M)	2 1/2" NPT / NPS (M)	3" NPT / NPS (M)	3 1/2" NPT / NPS (M)	4" NPT / NPS (M)			
M16	■	■	■							■	■	■								■	■										
M20	■	■	■	■						■	■	■	■							■	■	■									
M25	■	■	■	■	■					■	■	■	■	■						■	■	■	■								
M32	■	■	■	■	■	■				■	■	■	■	■	■					■	■	■	■	■							
M40	■	■	■	■	■	■	■			■	■	■	■	■	■	■				■	■	■	■	■	■						
M50	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■			■	■	■	■	■	■	■					
M63	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■				
M75	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
PG7																															
PG9	■	■	■	■						■	■	■	■							■	■	■									
PG11	■	■	■	■	■					■	■	■	■	■						■	■	■	■								
PG13.5	■	■	■	■	■	■				■	■	■	■	■	■					■	■	■	■	■							
PG16	■	■	■	■	■	■	■			■	■	■	■	■	■	■				■	■	■	■	■	■						
PG21	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■			■	■	■	■	■	■	■					
PG29	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■				
PG36	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
PG42	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
PG48	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1/2" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
3/4" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1 1/4" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
1 1/2" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
2" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
2 1/2" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
3" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
3 1/2" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
4" NPT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	

■ Ex d, Ex and Ex ta Certified Reducer ■ Ex d, Ex e and Ex ta Certified Adapter □ Non-Certified Adapter

① IP68 with entry thread seal or O-Ring not supplied, see Cable Gland Accessories and Tools.

737 Series Adaptors and Reducers

Increased Safety, Flameproof and Dust Locations
Cable Gland Accessories

NEC/CEC: Class 1, Group A, B, C, D | Zone 1, AEx de II | IP66/68 ①
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Thread Table

	Metric ①	NPT	PG
1	M16	1/2"	PG9
2	M20	3/4"	PG11
3	M25	1"	PG13.5
4	M32	1-1/4"	PG16
5	M40	1-1/2"	PG21
6	M50	2"	PG29
7	M63	2-1/2"	PG36
8	M75	3"	PG42
9	M90	3-1/2"	PG48
10	M100	4"	–

Reducers (Nickel Plated Brass)

Male Thread	Female Thread	Catalog Number
M20	M16	737DM2M15
M25	M16	737DM3M15
M25	M20	737DM3M25
M32	M20	737DM4M25
M32	M25	737DM4M35
M40	M25	737DM5M35
M40	M32	737DM5M45
M50	M32	737DM6M45
M50	M40	737DM6M55
M63	M40	737DM7M55
M63	M50	737DM7M65
M75	M50	737DM8M65
M75	M63	737DM8M75
1/2	3/4	737DT1T25
3/4	1/2	737DT2T15
1	1/2	737DT3T15
1	3/4	737DT3T25
1-1/4	3/4	737DT4T25
1-1/4	1	737DT4T35
1-1/2	1	737DT5T35
1-1/2	1-1/4	737DT5T45
2	1-1/4	737DT6T45
2	1-1/2	737DT6T55
2-1/2	1-1/2	737DT7T55
2-1/2	2	737DT7T65
3	2	737DT8T65
3	2-1/2	737DT8T75
3-1/2	2-1/2	737DT9T75
3-1/2	3	737DT9T85
4	3	737DT10T85
4	3-1/2	737DT10T95

Adaptors (Nickel Plated Brass)

Male Thread	Female Thread	Catalog Number
M16	M20	737DM1M25
M20	M25	737DM2M35
M25	M32	737DM3M45
M32	M40	737DM4M55
M40	M50	737DM5M65
M50	M63	737DM6M75
M63	M75	737DM7M85
M75	M90	737DM8M95
M90	M100	737DM9M105
M16	1/2	737DM1T15
M20	1/2	737DM2T15
M20	3/4	737DM2T25
M25	3/4	737DM3T25
M25	1	737DM3T35
M32	1	737DM4T35
M32	1-1/4	737DM4T45
M40	1-1/4	737DM5T45
M40	1-1/2	737DM5T55
M50	1-1/2	737DM6T55
M50	2	737DM6T65
M63	2	737DM7T65
M63	2-1/2	737DM7T75
M75	2-1/2	737DM8T75
M75	3	737DM8T85
1/2	M20	737DT1M25
3/4	M20	737DT2M25
3/4	M25	737DT2M35
1	M25	737DT3M35
1	M32	737DT3M45
1-1/4	M32	737DT4M45
1-1/4	M40	737DT4M55
1-1/2	M40	737DT5M55
1-1/2	M50	737DT5M65
2	M50	737DT6M65
2	M63	737DT6M75
2-1/2	M63	737DT7M75
2-1/2	M75	737DT7M85
3	M75	737DT8M85

① IP68 avec joint de filet ou joint torique (non foruni) - Voir Section Accessoires.

747 Series Stopper Plugs

Increased Safety, Flameproof and Dust Locations

Cable Gland Accessories

NEC/CEC: Class I, Groups, A, B, C, D | Class II, Groups E, F, G | Class III, Ex de II | Zone 1, AEx de II | Ex d II | IP66
 ATEX/IECEX : Zones 1 and 2 – 20
 Notable: UKEX, INMETRO, EAC Certified

Applications

- Stopper plug is designed to permanently or temporarily close any unused entries.
- In general, care should be taken to ensure that a suitable entry thread sealing washer is also selected and installed, where applicable, to ensure that an effective seal is made at the entry, thereby maintaining the integrity of the enclosure or equipment I.P. rating.



Features

- Catering to both industrial and hazardous area applications the range covers a number of different materials.
- Available with both external (Type A) or internal (Type B) Allen Key design.
- Internal Allen Key design is considered tamper proof. Once the equipment has been de-energized and the terminal chamber cover removed it can be removed from the inside

Standard Materials

- Brass fully nickel plated

Options

- Copperfree aluminum: replace suffix -5 with 1
- 316L stainless steel: replace suffix -5 with 4
- Nylon: replace suffix -5 with 2
- Type B : replace the letter A by B

NEC/CEC Certifications and Compliances

- UL Standard: UL50 Edition 11, UL1203 Edition 4, UL 60079-0, 1, 7
- UL Listed: E214221 (metallic version only)
- CSA Standard: C22.2 No. 0, 0.5, 30,94, CAN/CSA E60079-0, 1, 7
- cCSAus Certified: 1055233

ATEX/IECEX Certifications and Compliances

- Certification Type: Type 737 and 797 (range of adaptors and reducers), 747, 757 and 767 (range of stopping plugs)

— Gas: Zones 1

— Type of Protection: Ex db IIC Gb (except nylon), Ex eb IIC Gb

— Dust: Zone 20

— Type of Protection: Ex ta IIIC Da

• Conforming to ATEX 2014/34/EU: Ⓢ II 2G 1D

• Operating Temperature: -60 °C to +200 °C (-76 °F to +392 °F) (metallic) and -20 °C to +60 °C (-4 °F to +140 °F) (nylon)

• ATEX Certificate: CML 18ATEX1320X

• IECEx Certificate: IECEx CML 18.0177X, IECEx SIM 15.0002X

• Index of Protection according EN/IEC 60529: IP66

UKEX Certifications

- UKEX Certificates: CML 21UKEX1238X

INMETRO Certifications

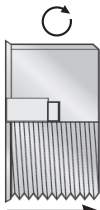
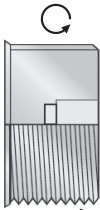
- INMETRO Certificate: TÜV 12.1333X, for INMETRO marking, replace D by B. Example: 747BAM25

EAC Certifications

- EAC Certificate: RU C-GB.A07.B.02500/20, for EAC marking, replace D by U. Example: 747UAM25

Other Certifications

- CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

	Male Thread Size	A/F Socket in mm	Thread Length mm (in)	Catalog Number Nickel Plated Brass
 <p>Ex 'd' Recessed Stopper Plug Type 'A'</p>	M16	M8	15.0 (0.59)	747DM15
	M20	M10	15.0 (0.59)	747DM25
	M25	M10	15.0 (0.59)	747DM35
	M32	M10	15.0 (0.59)	747DM45
	M40	M10	15.0 (0.59)	747DM55
	M50	M10	15.0 (0.59)	747DM65
	M63	M14	15.0 (0.59)	747DM75
	M75	M14	15.0 (0.59)	747DM85
	M90	M14	24.0 (0.94)	747DM95
 <p>Ex 'd' Recessed Stopper Plug Type 'B'</p>	1/2" NPT	—	—	747DT15
	3/4" NPT	—	—	747DT25
	1" NPT	—	—	747DT35
	1-1/2" NPT	—	—	747DT45
	1-1/4" NPT	—	—	747DT55
	2" NPT	—	—	747DT65
	2-1/2" NPT	—	—	747DT75
	3" NPT	—	—	747DT85

757 Series Blanking Plugs

Increased Safety, Flameproof and Dust Locations
Cable Gland Accessories

NEC/CEC: Class I, Groups A, B, C, D | Class II, Groups E, F, G | Class III | Zone 1 AEx e II | Type 4X, Ex e II | IP68 ①
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Applications

- Blanking plugs are designed for use from the outside of the enclosure to permanently or temporarily close any unused entries.
- In general, care should be taken to ensure that a suitable entry thread sealing washer is also selected and installed, where applicable, to ensure that an effective seal is made at the entry, thereby maintaining the integrity of the enclosure or equipment I.P. rating.



Features

- Catering to hazardous area applications, the range of products covers a number of different design types and materials.

Standard Materials

- Nickel plated brass

Options

- Copperfree aluminum: replace suffix -5 with 1
- Brass version: remove last digit 5
- 316L stainless steel version: replace last digit 5 with 4
- Shroud, locknut, earth tag, entry thread seal, serrated washers, adaptors and reducers: see Cable Gland Accessories pages.

NEC/CEC Certifications and Compliances

- UL Standard: UL50 Edition 11, UL 1203 Edition 4, UL 60079-0, 1, 7
- UL listed: E214221 (metallic versions only)
- CSA Standard: C22.2 No. 0, 0.5, 30,94,CAN/CSA E60079-0, 1, 7
- cCSAus Certified: 1055233

ATEX/IECEx Certifications and Compliances

- Certification Type: Type 737 and 797 (range of adaptors and reducers), 747, 757 and 767 (range of stopping plugs)
 - Gas: Zones 1
 - Type of Protection: Ex db IIC Gb, Ex eb IIC Gb
 - Dust: Zone 20
 - Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 1D
- Operating Temperature: -60 °C to +200 °C (-76 °F to +392 °F) (metallic)
- ATEX Certificate: CML 18ATEX1320X
- IECEx Certificate: IECEx CML 18.0177X
- Index of Protection according EN/IEC 60529: IP66 or IP68 (with seal)

UKEX Certifications

- UKEX Certificates: CML 21UKEX1238X

INMETRO Certifications

- INMETRO Certificate: TÜV 12.1333X, for INMETRO marking, replace D by B. Example: 757BM3M25

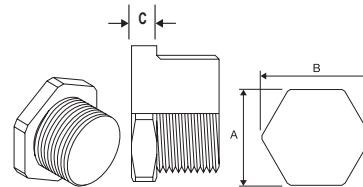
EAC Certifications

- EAC Certificate: RU C-GB.A07.B.02500/20, for EAC marking, replace D by U. Example: 757UM3M25

Other Certifications

- CCOE/PESO (India), ECAS (UAE), UkrSEPRO (Ukraine)
- Marine Approval: LLOYDS, DNV, ABS

Dimensions in Millimeters (Inches)



① IP68 with entry thread seal or O-Ring not supplied, see Cable Gland Accessories and Tools.

757 Series Blanking Plugs

Increased Safety, Flameproof and Dust Locations
Cable Gland Accessories

NEC/CEC: Class I, Groups A, B, C, D | Class II, Groups E, F, G | Class III | Zone 1 AEx e II | Type 4X, Ex e II | IP68 ①
ATEX/IECEx : Zones 1 and 2 – 20
Notable: UKEX, INMETRO, EAC Certified

Catalog Numbering Guide

757
Series: 757
Zone 1, 2 and 20
ATEX / IECEx Certified

D
Type:
D - Ex d, Ex e, Ex nR

M
Male Thread Type:
M - Metric
T - NPT
P - PG

1
Male Thread Size:
1 - M16 or 1/2" NPT
2 - M20 or 3/4" NPT
3 - M25 or 1" NPT
4 - M32 or 1-1/4" NPT
5 - M40 or 1-1/2" NPT
6 - M50 or 2" NPT
7 - M63 or 2-1/2" NPT
8 - M75 or 3" NPT
9 - M90 or 3-1/2" NPT
10 - M100 or 4" NPT

5
Material:
Blank - Brass
4 - 316L Stainless Steel
5 - Nickel Plated Brass

Dimensions in Millimeters (Inches)

Flats A	Corners B	C	Catalog Numbers (Nickel Plated Brass)		Weight kg (lb)		
			Metric ②	NPT			
24.0 (0.94)	26.0 (1.02)	5.0 (0.20)	M16 x 1.5	757DM15	1/2	757DT15	0.05 (0.11)
24.0 (0.94)	26.0 (1.02)	5.0 (0.20)	M20 x 1.5	757DM25	3/4	757DT25	0.07 (0.15)
30.0 (1.18)	33.0 (1.30)	5.0 (0.20)	M25 x 1.5	757DM35	1	757DT35	0.10 (0.22)
36.0 (1.42)	40.0 (1.57)	5.0 (0.20)	M32 x 1.5	757DM45	1-1/4	757DT45	0.16 (0.35)
46.0 (1.81)	51.0 (2.01)	6.0 (0.24)	M40 x 1.5	757DM55	1-1/2	757DT55	0.32 (0.71)
55.0 (2.17)	61.0 (2.40)	6.0 (0.24)	M50 x 1.5	757DM65	2	757DT65	0.42 (0.93)
70.0 (2.76)	78.0 (3.07)	6.0 (0.24)	M63 x 1.5	757DM75	2-1/2	757DT75	0.63 (1.39)
80.0 (3.15)	89.0 (3.50)	6.0 (0.24)	M75 x 1.5	757DM85	3	757DT85	0.98 (2.16)
95.0 (3.74)	106.0 (4.17)	6.0 (0.24)	M90 x 2	757DM95	3-1/2	757DT95	1.35 (2.98)
110.0 (4.33)	123.0 (4.84)	6.0 (0.24)	M100 x 2	757DM105	4	757DT105	1.60 (3.53)

Thread Table

	Metric	NPT	PG
1	M16	1/2	PG9
2	M20	3/4	PG11
3	M25	1	PG13.5
4	M32	1-1/4	PG16
5	M40	1-1/2	PG21
6	M50	2	PG29
7	M63	2-1/2	PG36
8	M75	3	PG42
9	M90	3-1/2	PG48
10	M100	—	—

① IP68 with entry thread seal or O-Ring not supplied, see Cable Gland Accessories and Tools.

② Entry thread seal not supplied, see Cable Gland Accessories and Tools.

767 Series Stopper Plugs

Increased Safety and Flameproof
Cable Gland Accessories.

NEC/CEC: Class I, Groups A, B, C, D | Class II, Groups E, F, G | Class III, Ex de II | Zone 1, AEx de II | Type 4X | IP66 | IP68 |
ATEX/IECEx : Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO, EAC Certified

Applications

- Stopper plug is designed to permanently or temporarily close any unused entries.
- In general, care should be taken to ensure that a suitable entry thread sealing washer is also selected and installed, where applicable, to ensure that an effective seal is made at the entry.



Features

- Ideal for use in both industrial and hazardous area applications.
- Wide range of sizes and materials.
- Features a dome head with an Allen Key.
- Optional O-Ring.

Standard Materials

- Brass fully nickel plated

Options

- Copperfree aluminum: replace suffix -5 with 1
- 316L stainless steel: replace suffix -5 with 4
- Nylon: replace suffix -5 with 2
- For O-Ring, replace D by DR – IP68 with optionnal 'O ring

NEC/CEC Certifications and Compliances

- UL Standard: UL50 Edition 11, UL1203 Edition 4, UL 60079-0, 1, 7
- UL Listed: E214221 (metallic versions only)
- CSA Standard: C22.2 No. 0, 0.5, 30,94,CAN/CSA E60079-0, 1, 7
- cCSAus Certified: 1055233

ATEX/IECEx Certifications and Compliances

- Certification Type: Type 737 and 797 (range of adaptors and reducers), 747, 757 and 767 (range of stopping plugs)
 - Gas: Zones 1
 - Type of Protection: Ex db IIC Gb (except nylon), Ex eb IIC Gb
 - Dust: Zone 20

- Type of Protection: Ex ta IIIC Da
- Conforming to ATEX 2014/34/EU: Ⓢ II 2G 1D
- Operating Temperature: -60 °C to +200 °C (-76 °F to +392 °F) (metallic) and -20 °C to +60 °C (-4 °F to +140 °F) (nylon)
- ATEX Certificate: CML 18ATEX1320X
- IECEx Certificate: IECEx CML 18.0177X, IECEx SIM 15.0002X
- Index of Protection according EN/IEC 60529: IP66 or IP68 with seal

UKEX Certifications

- UKEX Certificates: CML 21UKEX1238X

INMETRO Certifications

- INMETRO Certificate: TÜV 12.1333X, for INMETRO marking, replace D by B. Example: 767BM25

EAC Certifications

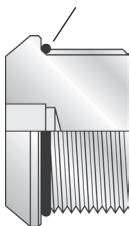
- EAC Certificate: RU C-GB.A07.B.02500/20, for EAC marking, replace D by U. Example: 767UM25

Other Certifications

- Marine Approval: LLOYDS, DNV, ABS

	Male Thread Size	A/F Socket	Head Diameter mm	Catalog Number Nickel Plated Brass
	M16	M8	22	767DM15
	M20	M10	27	767DM25
	M25	M10	30	767DM35
	M32	M10	36	767DM45
	M40	M10	46	767DM55
	M50	M10	55	767DM65
	M63	M14	65	767DM75
	M75	M14	80	767DM85
	M90	M14	95	767DM95
	1/2" NPT	—	—	767DT15
	3/4" NPT	—	—	767DT25
	1" NPT	—	—	767DT35
	1-1/2" NPT	—	—	767DT45
	1-1/4" NPT	—	—	767DT55
	2" NPT	—	—	767DT65
	2-1/2" NPT	—	—	767DT75
	3" NPT	—	—	767DT85


Optional 'O' Ring ②



① IP68 with optional entry thread seal or O-Ring.


② For optional O-Ring, change D to DR in catalog number. Contact your factory representative for price and availability.

Cable Gland Accessories and Tools

	Metric Thread	Metric Catalog Number	NPT	NPT Catalog Number
Locknuts – Nickel Plated Brass				
• Brass locknuts are recommended for use in securing brass cable glands to a gland plate or into equipment.				
	M16	16LN5	1/2	050NPTLN5
	M20	20LN5	3/4	075NPTLN5
	M25	25LN5	1	100NPTLN5
	M32	32LN5	1-1/4	125NPTLN5
	M40	40LN5	1-1/2	150NPTLN5
	M50	50LN5	2	200NPTLN5
	M63	63LN5	2-1/2	250NPTLN5
	M75	75LN5	3	300NPTLN5
	M90	90LN5	3-1/2	350NPTLN5


Earth Tags – Pear (Nickel Plated Brass)


- Installed between the cable gland and equipment. Provide an earth bond connection as specified in BS 6121 : Part 5 : 1993.

	M16	16ET5	1/2	050NPTET5
	M20	20ET5	3/4	075NPTET5
	M25	25ET5	1	100NPTET5
	M32	32ET5	1-1/4	125NPTET5
	M40	40ET5	1-1/2	150NPTET5
	M50	50ET5	2	200NPTET5
	M63	63ET5	2-1/2	250NPTET5
	M75	75ET5	3	300NPTET5
	M90	90ET5	3-1/2	350NPTET5
	M100	100ET5	—	—

Cable Gland Accessories and Tools

Serrated Washers – Stainless Steel

	Metric Thread	Metric Catalog Number	NPT	NPT Catalog Number
	M16	16SW4	—	—
	M20	20SW4	1/2	050NPTSW4
	M25	25SW4	3/4	075NPTSW4
	M32	32SW4	1	100NPTSW4
	M40	40SW4	1-1/4	125NPTSW4
	M50	50SW4	1-1/2	150SPTNW4
	M63	63SW4	2	200NPTSW4
	M75	75SW4	2-1/2	250NPTSW4
	M90	90SW4	3	300NPTSW4


	Metric Thread	NPT	Dimensions mm (in)		Weight kg (lbs)
			B	C	
	M16	—	19 (0.75)	25.4 (10)	0.01 (0.02)
	M20	1/2	24 (0.94)	32 (1.26)	0.01 (0.02)
	M25	3/4	33 (1.30)	40 (1.57)	0.01 (0.02)
	M32	1	42 (1.65)	44 (1.73)	0.01 (0.02)
	M40	1-1/4	55 (2.17)	59 (2.32)	0.02 (0.04)
	M50	1-1/2	65 (2.56)	80 (3.15)	0.02 (0.04)
	M63	2	70 (2.76)	100 (3.94)	0.06 (0.13)
	M75	2-1/2	85 (3.35)	112 (4.41)	0.09 (0.20)
	M90	3	100 (3.94)	120 (4.72)	0.11 (0.24)

Cable Gland Accessories and Tools

For Cable Entries

Entry Thread Seals – Sealing (IP) Washers




- It is essential to maintain the integrity of the degree of IP protection for which explosionproof equipment have been rated.
- Entry thread sealing washers are produced in 2mm thick white nylon as standard which are recommended and meet the specified requirements of Shell's Offshore operations.
- To verify the effectiveness of the nylon entry sealing washers, independent 3rd party tests to BS EN 60529:1992 have been conducted on certain cable gland types at IP66, IP67 and IP68 levels of protection. Documentation of these high standard tests is available upon request.



Metric Thread	Metric Catalog Number (White)	NPT	NPT Catalog Number (Green)
M16	16ETS2	1/2	050NPTETS
M20	20ETS2	3/4	075NPTETS
M25	25ETS2	1	100NPTETS
M32	32ETS2	1-1/4	125NPTETS
M40	40ETS2	1-1/2	150NPTETS
M50	50ETS2	2	200NPTETS
M63	63ETS2	2-1/2	250NPTETS
M75	75ETS2	3	300NPTETS
M90	90ETS2	3-1/2	350NPTETS

Cable Gland Accessories and Tools

For Cable Entries

Cable Gland Size	Catalog Number		
	For use in PX2K	For use in E1F./E2F	For use in T3
PVC Cable Shrouds – Black			
• Refer to catalog pages with cable glands to define compatible part number to order.			
20/16	PVC06	PVC04	PVC36
20S	PVC06	PVC04	PVC36
20	PVC06	PVC06	PVC06
25S	PVC09	PVC09	PVC09
25	PVC09	PVC09	PVC09
32	PVC11	PVC11	PVC11
40	PVC15	PVC15	PVC15
 50S	PVC18	PVC18	PVC18
 50	PVC21	PVC21	PVC21
 63S	PVC23	PVC23	PVC23
63	PVC25	PVC25	PVC25
75S	PVC28	PVC28	PVC28
75	PVC30	PVC30	PVC30
90	PVC32	PVC32	PVC32
100	LSF33	LSF33	LSF33
115	LSF34	LSF34	LSF34
130	LSF35	LSF35	LSF35

DB Series Drain and Breather Valves

Increased Safety. Flameproof.

ATEX/IECEx: Zone 1 and 21 | II 2 GD | Ex eb IIC Gb | Ex tb IIIC Db | IP66

Applications



- Flameproof Bleed Valve
 - Used to drain condensation from inside enclosures and boxes.
- Increased Safety Breather Drain
 - Ensures that the condensation is evacuated from the lower section of the enclosures and limits the “pumping” effect in the upper section.

Standard Materials

- Bleed valve: nickel plated brass or stainless steel
- Breather/drain: polyamide, brass or stainless steel

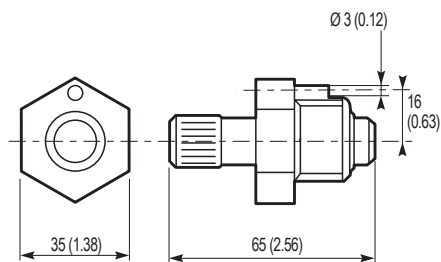
ATEX/IECEx Certifications and Compliances

- Certification Type: DP-E
 - Gas: Zones 1
 - Type of Protection: Ex eb IIC Gb
 - Dust: Zone 21
 - Type of Protection: Ex tb IIIC Db
- Conforming to ATEX 2014/34 EU: II 2G 2D
- Ambient Temperature: -50 °C to +85 °C (-58 °F to +185 °F)
- ATEX Certificate: ITS16ATEX101338X
- IECEx Certificate: IECEx ITS 16.0014X
- Index of Protection according EN/IEC 60529: IP66

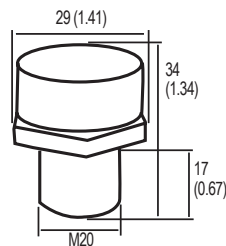
	Metric Thread	Material	Weight kgs (lbs)	Volume dm ³ (in ³)	Pack	Catalog Number
Flameproof Bleed Valve						
<i>To be used only with our range of flameproof enclosure. The ATEX certification is included in our Exd enclosure's certification.</i>						
	M20	Nickel plated brass	0.10 (0.22)	0.01 (0.61)	1	DBD20NB
	M20	Stainless steel	0.20 (0.44)	0.33 (20.14)	1	DBD20S
Flameproof Breather						
<i>To be used only with our range of flameproof enclosure. The ATEX certification is included in our Exd enclosure's certification.</i>						
	M20	Nickel plated brass	0.20 (0.44)	0.33 (20.14)	1	DBDB20NB
	M20	Stainless steel	0.20 (0.44)	0.33 (20.14)	1	DBDB20S
Increased Safety Combination Drain and Breather — Type DP-E						
	M20	Polyamide	0.20 (0.44)	0.01 (0.61)	1	DBE20P
	M20	Brass	0.20 (0.44)	0.01 (0.61)	1	DBE20B
	M20	Stainless steel	0.20 (0.44)	0.01 (0.61)	1	DBE20S

Dimensions in Millimeters (Inches)

Flameproof Bleed Valve



Increased Safety Drain and Breather



DB Series Fire Retardant Seal

Increased Safety. Flameproof.

ATEX/IECEx: Zone 1 and 21 |  II 2 GD | Ex db IIC Gb | Ex tb IIIC Db | IP66

Applications

- Used to prevent passage of gasses, vapors or flames from one portion of a conduit system to another.
- For vertical conduit installation.


Features

- Female to female threads.

Standard Materials

- Aluminum

ATEX/IECEx Certifications and Compliances

- Certification Type: EYS
 - Gas: Zones 1
 - Type of Protection: Ex db IIC Gb
 - Dust: Zone 21
 - Type of Protection: Ex tb IIIC Db
- Conforming to ATEX 2014/34/EU:  II 2GD
- Ambient Temperature: -20 °C to +100 °C (-4 °F to +212 °F)
- ATEX Certificate: CESI 03 ATEX 085X
- IECEx Certificate: CES 14.0019x
- Index of Protection according EN/IEC 60529: IP66



Tapered Thread (NPT)	Dimensions mm (po)		B1	R	Amount of Resin Required g (oz)	Poids kg (lb)	Volume dm ³ (in ³)	Emb.	Référence catalogue
	A	B							
Raccord Aluminum — Femelle/Femelle									
1/2"	77 (3,03)	57 (2,24)	—	43 (1,69)	35 (1.23)	0,13 (0,29)	2,3 (140,35)	1	500146
3/4"	87 (3,43)	67 (2,64)	—	50 (1,96)	50 (1.78)	0,19 (0,42)	3,2 (195,28)	1	500147
1"	105 (4,13)	83 (3,27)	—	62 (2,44)	100 (3.53)	0,32 (0,71)	3,2 (195,28)	1	500148
1-1/4"	130 (5,12)	84 (3,31)	—	56 (2,20)	240 (8.47)	0,60 (1,32)	3,2 (195,28)	1	500149
1-1/2"	130 (5,12)	84 (3,31)	—	56 (2,20)	240 (8.47)	0,60 (1,32)	4,0 (244,09)	1	500150
2"	140 (5,51)	95 (3,74)	—	63 (2,48)	380 (13.40)	0,65 (1,43)	7,6 (463,78)	1	500151
2-1/2"	175 (6,89)	113 (4,45)	—	74 (2,91)	1250 (44.09)	1,26 (2,78)	7,6 (463,78)	1	500152
3"	190 (7,48)	—	135 (5,31)	92 (3,62)	1250 (44.09)	1,33 (2,93)	7,6 (463,78)	1	500153
Fire Retardant Resin									
1 kg (2,2 lb) pot + 250 g (0,55 lb) of catalyst						1,5 (3,31)	3,2 (195)	1	500154
Fire retardant fiber — 1 kg (2,2 lb) bog						1,5 (3,31)	8,0 (488)	1	500155

Notes...

ATEX and IECEx certified solutions designed to support you and your operations by enabling productivity and ensuring maximum reliability.



Appleton products by Emerson make your job easier, whether you're on a petrochemical site, power plant, paper mill, or any other industrial facility.

United States (Headquarters)
Appleton Grp LLC
9377 W. Higgins Road
Rosemont, IL 60018
United States
T +1 800 621 1506

Europe
ATX SAS
ZAC Les bornes du temps - 2
190 rue des Catelets
80470 Saint Sauveur
France
T +33 3 22 54 13 90

Canada
EGS Electrical Group Canada Ltd.
99 Union Street
Elmira ON, N3B 3L7
Canada
T +1 888 765 2226

Latin America
EGS Comercializadora Mexico
S de RL de CV
Calle 10 N°145 Piso 3
Col. San Pedro de los Pinos
Del. Álvaro Obregon
Ciudad de México, 01180
T +52 55 5809 5049

Asia Pacific
EGS Private Ltd.
Block 4008, Ang Mo Kio Ave 10,
#04-16 TechPlace 1,
Singapore 569625
T +65 6556 1100

Australia Sales Office
Bayswater, Victoria
T +61 3 9721 0348

Korea Sales Office
Seoul
T +82 2 3483 1555

China Sales Office
Shanghai
T +86 21 3338 7000

Jebel Ali- Dubai Office
Emerson, Building A
Appleton Group
Jebel Ali Free Zone- South
T +971 4 811 81 00

Middle East Sales Office
Dammam, Saudi Arabia
T +966 13 510 3702

India Sales Office
Chennai
T +91 44 3919 7300

Chile Sales Office
Las Condes
T +56 2928 4819

 www.appleton.emerson.com

 [LinkedIn.com/company/emerson](https://www.linkedin.com/company/emerson)

The Emerson logo is a trademark and service mark of Emerson Electric Co. Appleton is a registered trademark of Appleton Grp LLC. All other marks are the property of their respective owners. © 2024 Emerson Electric Co. All rights reserved. ATXAPPLMCE004

