PRIMA LED Ex



... for explosion hazard environment group II, category 3 (zone 2, 22).

USE

The light fitting is suitable for the environment with a danger of explosion of gas, dust and combustible fumes. The light fittings meet the requirements of Government Decree 116/2016 Coll. and European Community Directive No.2014/34/EU.

The light fitting is certified for the environment:
Ⓔx II 3G Ex nR IIC T6 Gc
Ⓔx II 3D Ex tc IIIC T70°C Dc

The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to ČSN EN 60079-15, ČSN EN 60079-0 and ČSN EN 60079-31.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistence against deformation and impact.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

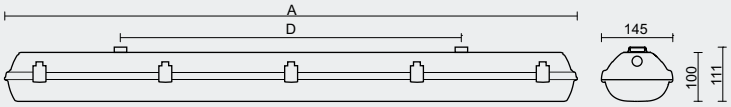
- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 60°C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to fluorescent tubes
- Current driver with the possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- Clips: stainless steel + polyamide + 15 % glass fibre
- Through-wiring of up to 10 wires at body
- Certification: CB, TÜV CY 22 ATEX 0206610 X

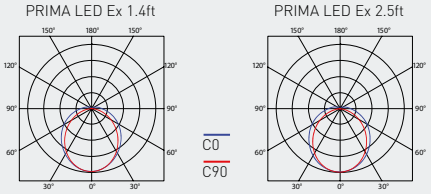
PRIMA LED Ex PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: from -25 to 60 °C
- Maximum ambient temperature: from 0 to 45 °C (version with emergency back-up source for 3 hours; M3hAt)
- Maximum system efficacy: 151 lm/W
- The watt and lumen values can vary by ± 7,5 %
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: stainless steel + polyamide + 15 % glass fibre
- Cable glands: screwed M20 × 1,5 ATEX
- Distance part: polyamide + 10 % glass fibre, serves to suspend the reflector during assembly
- Terminal block: screwless, five-pole (version 1.4ft and 1.5ft), three-pole incl. earthing tape & screw for a perfect connection (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver, halogen-free wires with higher temperature resistance





Type	Ambient temperature [°C]		Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/ transverse	Net weight [kg]	A [mm]	D [mm]
	ON/OFF	M3hAt								
For ambient temperature t_a = 60 °C - body: grey polycarbonate - diffuser: translucent polycarbonate										
PRIMA LED Ex 1.2ft PCc 1600/840	-25 / 60	0 / 45	1630	1420	10,5	135	21.5 / 19.2	2,0	662	350
PRIMA LED Ex 1.2ft PCc 2200/840	-25 / 55	0 / 45	2360	2050	14,6	140	22.8 / 20.5	2,0	662	350
PRIMA LED Ex 1.4ft PCc 3200/840	-25 / 60	0 / 45	3260	2840	20,1	141	21.7 / 19.6	3,2	1272	700
PRIMA LED Ex 1.4ft PCc 4400/840	-25 / 55	0 / 45	4520	3930	27,3	144	22.8 / 20.7	3,3	1272	700
PRIMA LED Ex 1.4ft PCc 6400/840	-25 / 55	x	6500	5660	38,5	147	24.1 / 22.0	3,3	1272	700
PRIMA LED Ex 1.5ft PCc 4000/840	-25 / 60	0 / 45	4180	3640	25,3	144	21.8 / 19.7	4,1	1572	940
PRIMA LED Ex 1.5ft PCc 5500/840	-25 / 55	0 / 45	5590	4860	33,3	146	22.8 / 20.8	4,2	1572	940
PRIMA LED Ex 1.5ft PCc 8000/840	-25 / 55	x	8020	6980	47,4	147	24.1 / 22.0	4,2	1572	940
PRIMA LED Ex 2.2ft PCc 3200/840	-25 / 60	0 / 40	3250	2830	20,1	141	23.9 / 21.6	2,1	662	350
PRIMA LED Ex 2.2ft PCc 4400/840	-25 / 55	0 / 35	4680	4070	28,3	144	25.2 / 22.9	2,1	662	350
PRIMA LED Ex 2.4ft PCc 6400/840	-25 / 60	0 / 45	6520	5670	38,4	148	24.1 / 21.8	3,4	1272	700
PRIMA LED Ex 2.4ft PCc 8800/840	-25 / 55	0 / 40	8980	7810	52,8	148	25.2 / 22.9	3,5	1272	700
PRIMA LED Ex 2.4ft PCc 12800/840	-25 / 40	x	12920	11240	74,8	150	26.4 / 24.1	3,7	1272	700
PRIMA LED Ex 2.5ft PCc 8000/840	-25 / 60	0 / 45	8330	7250	48,3	150	24.2 / 21.9	4,3	1572	940
PRIMA LED Ex 2.5ft PCc 11000/840	-25 / 55	0 / 40	11260	9800	64,7	151	25.2 / 23.0	4,4	1572	940
PRIMA LED Ex 2.5ft PCc 16000/840	-25 / 40	x	16100	14010	92,7	151	26.5 / 24.2	4,6	1572	940
PRIMA LED Ex 2.5ft PCc 20000/840	-25 / 40	x	19320	16810	111,2	151	27.1 / 24.9	4,6	1572	940

Energy consumption of M3hAt increased by 3 W until battery fully charged (max. 24 hours).

PRIMA LED Ex PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
10628	PRIMA LED Ex 1.2ft PCc 1600/840	10638	10646	12664	12670
10629	PRIMA LED Ex 1.2ft PCc 2200/840	10639	10647	12665	12671
14810	PRIMA LED Ex 1.4ft PCc 3200/840	14811	14813	12666	12672
14820	PRIMA LED Ex 1.4ft PCc 4400/840	14821	14823	12667	12673
63850	PRIMA LED Ex 1.4ft PCc 6400/840	63888	63881	x	x
14830	PRIMA LED Ex 1.5ft PCc 4000/840	14831	14833	12668	12674
14840	PRIMA LED Ex 1.5ft PCc 5500/840	14841	14843	12669	12675
63860	PRIMA LED Ex 1.5ft PCc 8000/840	63892	63889	x	x
10633	PRIMA LED Ex 2.2ft PCc 3200/840	10642	10649	12676	12682
10637	PRIMA LED Ex 2.2ft PCc 4400/840	10643	10652	12677	12683
14850	PRIMA LED Ex 2.4ft PCc 6400/840	14851	14853	12678	12684
14860	PRIMA LED Ex 2.4ft PCc 8800/840	14861	14863	12679	12685
63865	PRIMA LED Ex 2.4ft PCc 12800/840	63861	63893	x	x
14870	PRIMA LED Ex 2.5ft PCc 8000/840	14871	14873	12680	12686
14880	PRIMA LED Ex 2.5ft PCc 11000/840	14881	14883	12681	12687
63851	PRIMA LED Ex 2.5ft PCc 16000/840	63866	63862	x	x
63880	PRIMA LED Ex 2.5ft PCc 20000/840	63852	63867	x	x

PRIMA LED Ex PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
14910	PRIMA LED Ex 1.4ft PCc 3200/840 DALI	14911	14913	12688	12692
14920	PRIMA LED Ex 1.4ft PCc 4400/840 DALI	14921	14923	12689	12693
63891	PRIMA LED Ex 1.4ft PCc 6400/840 DALI	63870	63900	x	x
14930	PRIMA LED Ex 1.5ft PCc 4000/840 DALI	14931	14933	12690	12694
14940	PRIMA LED Ex 1.5ft PCc 5500/840 DALI	14941	14943	12691	12695
63895	PRIMA LED Ex 1.5ft PCc 8000/840 DALI	63875	63871	x	x
10668	PRIMA LED Ex 2.2ft PCc 3200/840 DALI	10682	12696	12698	12704
10669	PRIMA LED Ex 2.2ft PCc 4400/840 DALI	10684	12697	12699	12705
14950	PRIMA LED Ex 2.4ft PCc 6400/840 DALI	14951	14953	12700	12706
14960	PRIMA LED Ex 2.4ft PCc 8800/840 DALI	14961	14963	12701	12707
63864	PRIMA LED Ex 2.4ft PCc 12800/840 DALI	63856	63876	x	x
14970	PRIMA LED Ex 2.5ft PCc 8000/840 DALI	14971	14973	12702	12708
14980	PRIMA LED Ex 2.5ft PCc 11000/840 DALI	14981	14983	12703	12709
63869	PRIMA LED Ex 2.5ft PCc 16000/840 DALI	63884	63857	x	x
63855	PRIMA LED Ex 2.5ft PCc 20000/840 DALI	63896	63885	x	x

LEGEND

1F - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

DALI - version with digital dimmable driver DALI
DALI 1F - 1-phase 5 core through-wiring in the luminaire
DALI 3F - 3-phase 7 core through-wiring in the luminaire
DALI 3F M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks
c) Attachment with the use of side hangers to the wall - is not included in accessories





LIGHT FITTING DETAILED VIEW

PRIMA LED Ex

