

PRIMA Ex 1/21



... for explosion hazard environment group II, category 2G / 2D (zone 1/21).

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:

- ⊕ II 2G eb mb op is IIC T4 Gb
- ⊕ II 2D tb IIIC T67°C Db

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 resistance 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 = 55°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
- Through-wiring of up to 10 wires at body
- Certification: CB, TÜV CY 26 ATEX XXXXXXX X

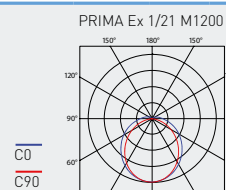
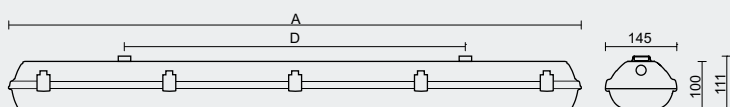


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TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: from -30 to 55 °C
- Maximum ambient temperature: from 0 to 45 °C (version with emergency back-up source for 3 hours; M3h)
- Maximum system efficacy: 132 lm/W
- 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
- Cable glands: screwed M20/M25 x 1,5 ATEX screwed M20/M25 x 2,5 ATEX
- Distance part: polyamide + 10 % glass fibre, serves to suspend the reflector during assembly
- Terminal block: screwless, five-pole, three-pole incl. earthing tape & screw for a perfect connection (basic version)
- Installation: package contains: stainless steel hooks and stainless steel brackets.
On request: pole brackets Ø 42 / 50 / 60 mm, cable suspenders 1,5 / 3 m
- Electric equipment: LED modules, current driver, halogen-free wires with higher temperature resistance
- The watt and lumen values can vary by ± 7,5 %



Type	Ambient temperature [°C]		Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	ONF/DALI	M3h							
For ambient temperature t _a = 55°C - body: grey polycarbonate - diffuser: translucent polycarbonate									
PRIMA Ex 1/21 S600 1800/840	-30 / 55	0 / 30	2050	1780	13,6	131	2,0	662	350
PRIMA Ex 1/21 S600 2200/840	-30 / 55	0 / 30	2570	2240	17,0	132	2,0	662	350
PRIMA Ex 1/21 S600 3300/840	-30 / 50	0 / 25	3800	3310	25,2	131	3,3	1272	700
PRIMA Ex 1/21 M1200 3600/840	-30 / 55	0 / 45	4110	3580	27,2	132	3,3	1272	700
PRIMA Ex 1/21 M1200 4500/840	-30 / 55	0 / 45	5140	4470	34,0	131	3,3	1272	700
PRIMA Ex 1/21 M1200 6600/840	-30 / 50	0 / 40	7600	6610	50,4	131	3,3	1272	700
PRIMA Ex 1/21 M1200 9800/840	-30 / 40	✗	11210	9750	74,9	130	3,3	1272	700
PRIMA Ex 1/21 L1500 4500/840	-30 / 50	0 / 45	5140	4470	34,0	131	4,2	1572	940
PRIMA Ex 1/21 L1500 5600/840	-30 / 50	0 / 45	6430	5590	42,6	131	4,2	1572	940
PRIMA Ex 1/21 L1500 8300/840	-30 / 45	0 / 40	9510	8270	63,0	131	4,2	1572	940
PRIMA Ex 1/21 L1500 12200/840	-30 / 30	✗	14010	12190	93,6	130	4,2	1572	940

Energy consumption of M3h increased by 3 W until battery fully charged (max. 24 hours).

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Code	Type
✓	PRIMA Ex 1/21 S600 1800/840
✓	PRIMA Ex 1/21 S600 2200/840
✓	PRIMA Ex 1/21 S600 3300/840
✓	PRIMA Ex 1/21 M1200 3600/840
✓	PRIMA Ex 1/21 M1200 4500/840
✓	PRIMA Ex 1/21 M1200 6600/840
✓	PRIMA Ex 1/21 M1200 9800/840
✓	PRIMA Ex 1/21 L1500 4500/840
✓	PRIMA Ex 1/21 L1500 5600/840
✓	PRIMA Ex 1/21 L1500 8300/840
✓	PRIMA Ex 1/21 L1500 12200/840

Non-dimmable driver - stainless clips [c]

1F	3F	M3hxx	3F M3hxx
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✗	✗
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✗	✗

PRIMA Ex 1/21 DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hxx	3F M3hxx
✓	PRIMA Ex 1/21 S600 1800/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 S600 2200/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 S600 3300/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 M1200 3600/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 M1200 4500/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 M1200 6600/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 M1200 9800/840	✓	✓	✗	✗
✓	PRIMA Ex 1/21 L1500 4500/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 L1500 5600/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 L1500 8300/840	✓	✓	✓	✓
✓	PRIMA Ex 1/21 L1500 12200/840	✓	✓	✗	✗

LEGEND

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

CABLE GLAND OPTIONS

M25 plastic cable glands



M20/M25 nickel-plated cable glands



M20/M25 nickel-plated cable glands for armored cables



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
- d) With help of chain hinge



LIGHT FITTING DETAILED VIEW

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