

INSEL LB/R LED 80 D120 Ex 5000K

Explosion-proof LED luminaires



Description

INSEL LED Ex series explosion-proof luminaire designed for all classes of indoor and outdoor explosion-hazardous locations in oil/gas and petrochemical industry according to the explosion protection marking.

Installation

It can be integrated into niches using included fixing set. May be fixed at the wall or console by means wall mounting bracket and pole mounting bracket.

Design

Coper-free aluminium alloy housing. The Led-module, driver and screw terminals for power supply are mounted inside the housing. Led-module and motion/light sensor are making "d" type ex-proof enclosure (flameproof enclosure). Driver and terminals are making "e" type ex-proof enclosure (increased safety), "m" (encapsulation). Luminaire is making "t" type exproof enclosure (dust ignition). Mounting straps, fasteners are made of stainless steel.

Optical part

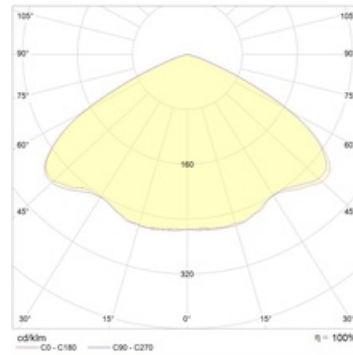
Diffuser is made of impact-resistant tempered borosilicate glass. Secondary optic is made of PMMA with different beam angles. Led source: SMD.

EX Mark

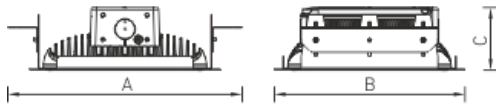
1 Ex dem II T6 Gb/Ex tb IIIC Ta 80°C Db – for 70 W, 80 W luminaires; 1 Ex dem II T5 Gb/Ex tb IIIC Ta 100°C Db – for 100 W, 120 W luminaires.

Characteristics

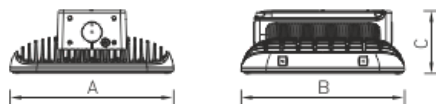
Luminaire is making "t" type exproof enclosure (dust ignition). Zones: gas explosion protection – 1, 2; dust explosion protection– 21, 22. Earthing: internal and external, M5. CRI: 80. Color temperature: 5000 K (4000 K on request).



INSEL LB/R LED Ex



INSEL LB/S LED Ex



Dimensional characteristics

A	Length	480 mm
B	Width	390 mm
C	Height	130 mm
D	Length (mounting)	360 mm
E	Width (mounting)	360 mm
	Weight	11.8 kg

Technical features

1	Article no.	1332000650
2	Marking for gas	1 Ex e mb II T6 Gb
3	Dust marking	Ex tb IIIC T80 C Db
4	Mine gas coal dust marking	-
5	Light source	LED
6	Luminous flux	8000 lm
7	Power compatibility	76 W
8	Energy efficiency	105 lm/W
9	Color rendering index (CRI)	>80
10	Color temperature	5000 K
11	Power factor (cosFI)	> 0,96
12	Alternating/direct current (AC/DC)	Yes
13	Dimming	-
14	Rated voltage	230 V
15	Electrical shock protection	I
16	Climate application	Clim App1
17	Ambient temperature	-60 to +55 C
18	Housing color	Grey
19	Fire protection class	I,II,IIa,III
20	Flickering	<5%
21	Ingress protection (IP)	IP66
22	Mechanical shock protection	IK08/5 J
23	Energy efficiency class	A+
24	Inrush current	60 A
25	Emergency power supply unit	No
26	Beam angle	D120
27	Warranty	60 months