

# INSEL LB/S LED 120 D65 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

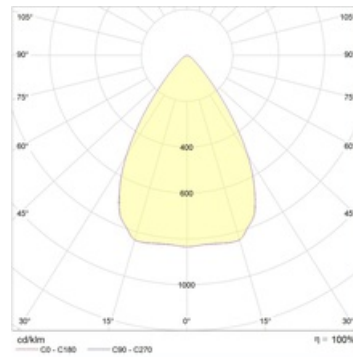
Diffuser is made of impact-resistant tempered borosilicate glass. Secondary optic is made of PMMA with different beam angles. Led source: SMD.

## EX Mark

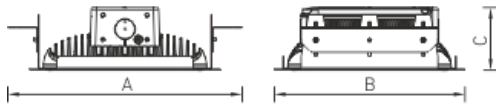
1 Ex dem II T6 Gb/Ex tb IIIC Ta 80°C Db – for 70 W, 80 W luminaires; 1 Ex dem II T5 Gb/Ex tb IIIC Ta 100°C Db – for 100 W, 120 W luminaires.

## Characteristics

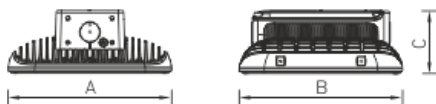
Luminaire is making "t" type exproof enclosure (dust ignition). Zones: gas explosion protection – 1, 2; dust explosion protection– 21, 22. Earthing: internal and external, M5. CRI: 80. Color temperature: 5000 K (4000 K on request).



## INSEL LB/R LED Ex



## INSEL LB/S LED Ex



## Dimensional characteristics

A	Length	335 mm
B	Width	335 mm
C	Height	190 mm
D	Length (mounting)	200 mm
	Weight	10 kg

## Technical features

1	Article no.	1334000580
2	Marking for gas	1 Ex e mb II T5 Gb
3	Dust marking	Ex tb IIIC T100 C Db
4	Mine gas coal dust marking	-
5	Light source	LED
6	Luminous flux	12300 lm
7	Power compatibility	120 W
8	Energy efficiency	103 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	IK08/7 J
23	Energy efficiency class	A+
24	Inrush current	60 A
25	Emergency power supply unit	No
26	Beam angle	D65
27	Warranty	60 months