

Line Ex1

LED Lighting fixture for zone 1/21



The Line Ex1 series is a range of robust linear luminaires designed for use in hazardous areas, certified for ATEX Zone 1/21. Built with a durable polycarbonate body (RAL 7035) and a high-resistance opal polycarbonate cover, the luminaire ensures excellent light homogeneity while effectively reducing glare. A silicone gasket provides long-term sealing reliability.

Equipped with certified electronic components, including an encapsulated LED module and driver, the fixture delivers high efficiency up to 158 lm/W and an extended LED lifetime of up to 110,000 hours, even in demanding temperature conditions. It is suitable for ambient temperatures ranging from –30 °C to +55 °C, depending on the model. Designed for operation in harsh environments, the luminaire features IP66/IP67 protection against dust, splashes, and water ingress, as well as IK10 impact resistance. Its lightweight yet durable construction supports multiple mounting options, including supplied stainless-steel clips and mounting lugs, enabling snap-on or hinge installation for maximum flexibility.

- European product
- Can also be used for outdoor uncovered areas
- Wide temperature resistance from –30 °C to +55 °C
- UV resistance
- LOOP-IN / LOOP-OUT – ready for looping
- High specific output up to 158 lm/W
- Emergency version 3h
- DALI 2 version on request



Reference standards

Directive 2014/34/EU	
ATEX	⊕ II 2G Ex eb mb IIC T4 Gb
Ex protection type	⊕ II 2D Ex tb IIIC T85°C Db
ATEX certificate number	FTZÚ 26 ATEX 0011X
Rules of compliance	EN/IEC 60079-0: 2018; EN 60079-7: 2015 + A1:2018; EN 60079-18: 2015 + A1:2018; EN 60079-28: 2015 EN 60079-31: 2024;
IECEx certificate number	IECEx FTZU 26.0016X
Ingress protection	IP66 / IP67
Impact Protection	IK10
Ambient temperature	-30 °C to +55 °C

Mechanical characteristics

Body	PC (polycarbonate), grey colour RAL 7035
Diffuser	UV resistant polycarbonate
Closing clips	2 pcs stainless steel fastening bracket - AISI 304
Cable entry	2x Ex plastic cable gland M20x1,5 for cable Ø 7-13 mm 2x Ex plastic cable plug M20
Glow wire test	850 °C
Fastening	2x stainless steel fixing pen (AISI304) for direct fixing of the luminaire to the mounting surface

Electrical characteristics

Power supply	220-240 VAC Vac electronic driver 50/60 Hz 220-240 Vdc 0 Hz
Lamp source	LED 5000K, CRI +80 Lifetime: > 110.000 hours L80B50 @ta50
Terminals	Screwless three-pole terminal block, max. cross section of wires 4,0mm², lighting fixture is ready for looping (option to connect two cables, required to order additional cable gland)

Installation

hazardous areas - Zone 1 / 2 (Gases) - Zone 21 / 22 (Dusts)

Classification

Group II - Category 2G 2D

On Request Accessories

- 3000 / 4000 / 6500 K - color temperature
- 1/3 F - single phase or three phase through wiring connection, max. diameter of wires 4 mm²

LIXACM201 →
Chain suspension 2x



LIXACM200 →
Cable suspension 2x (3m)



LIXACM600 →
Set of brackets to a wall - angle 45° (2 pcs)



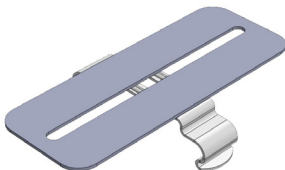
LIXACM342 → Pole bracket for Ø 42 mm
LIXACM350 → Pole bracket for Ø 50 mm
LIXACM360 → Pole bracket for Ø 60 mm
Standard material AISI304
Material AISI316 on request



LIXACCL06 → Prot. cage L06
LIXACCL12 → Prot. cage L12
LIXACCL15 → Prot. cage L15



LIXACM602 →
Set of adjustable fixing brackets EXTRA
(2 pcs)



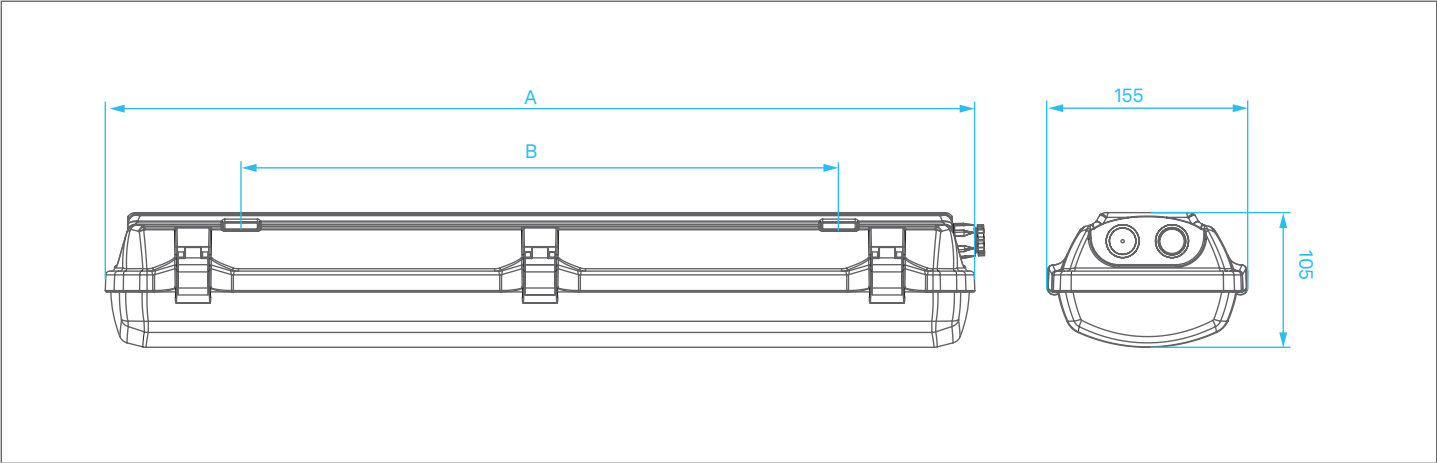
Legend for type of luminaire

N0	normal version
ND	normal version with DALI2 driver
EA	maintained emergency version with 3h autonomy and battery autotest function
ED	maintained emergency version with 3h autonomy, DALI inverter and DALI2 driver
AD	maintained emergency version with 3h autonomy, battery autotest and DALI2 driver

Technical data

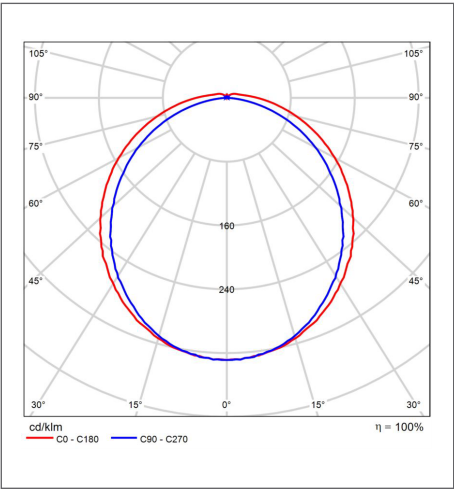
BARTEC Code	Output [lm]	Model size (A), length [mm]	Model size (B), [mm]	Power input [W]	Rated power output [lm/W]	Version*	Emergency unit autonomy / output	Temperature range [°C]	Weight [kg]
LIXZ12N0015805P1S65FE	2419	670	460	15.8	153	N0		-30°C ≤ ta ≤ 55°C	4.1
LIXZ14N0033505P1S65FE	4838	1280	880	33.5	144	N0		-30°C ≤ ta ≤ 55°C	6.3
LIXZ14EA033505P1S65FE	4838	1280	880	33.5	144	EA	180 min / 830 lm	0°C ≤ ta ≤ 45°C	6.7
LIXZ14ND033505P1S65FE	4838	1280	880	33.5	144	ND		-30°C ≤ ta ≤ 55°C	6.3
LIXZ14AD033505P1S65FE	4838	1280	880	33.5	144	AD	180 min / 830 lm	0°C ≤ ta ≤ 45°C	6.7
LIXZ14ED033505P1S65FE	4838	1280	880	33.5	144	ED	180 min / 830 lm	0°C ≤ ta ≤ 45°C	6.7
LIXZ14N0050405P1S65FE	6630	1580	1000	50.4	132	N0		-30°C ≤ ta ≤ 50°C	6.3
LIXZ15N0094405P1S65FE	12206	1580	1000	94.4	129	N0		-30°C ≤ ta ≤ 30°C	6.6

Reference details

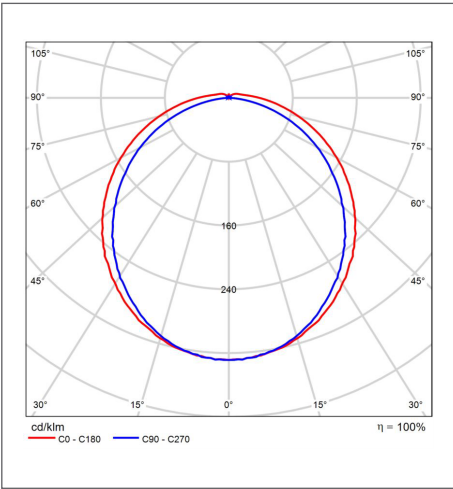


Polar diagrams – photometric data

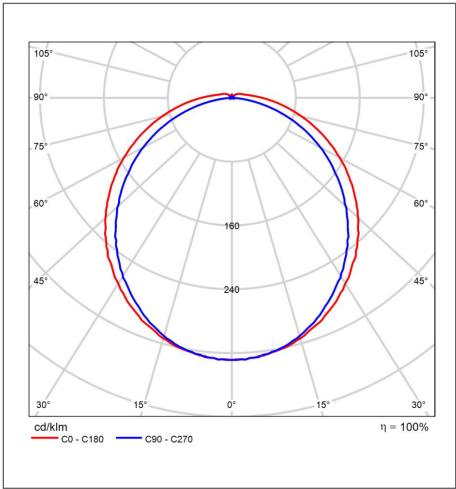
LIXZ12N0017805P1S65FE



LIXZ14N0035505P1S65FE



LIXZ15N0097705P1S65FE



Ordering information

L I X Z 1 2 N 0 0 1 7 8 0 5 P 1 S 6 5 F E

LIX	Family name Line Ex	0	Wiring connection 0 – only one 1 phase terminal block in the end of luminaire* 1 – 1 phase terminal block on both ends 3 – 3 phase terminal block on both ends
Z1	Zone classification Ex zone 1	5	Color temperature CCT 4 – Ra 80, 4000K 5 – Ra 80, 5000K* 6 – Ra 80, 6500K
2	Model size 2 – lenght of luminaire 670 mm 4 – lenght of luminaire 1280 mm 5 – lenght of luminaire 1580 mm	P1	Cable entry P1 – Polyamid cable gland M20 x 1.5 (7 - 13 mm)
N0	Variant N0 – ON/OFF normal ND – DALI2 normal EA – ON/OFF + emergency 3h with autotest AD – DALI2 + emergency 3h with autotest ED – DALI2 + emergency 3h with DALI E1 – ON/OFF + emergency 1h A1 – DALI2 + emergency 1h with autotest D1 – DALI2 + emergency 1h with DALI	S	Gasket S – Silicon
0178	Power 0142 – 14.2 W 0178 – 17.8 W 0263 – 26.3 W 0281 – 28.1 W 0355 – 35.5 W 0444 – 44.4 W 0526 – 52.6 W 0657 – 65.7 W 0781 – 78.1 W 0977 – 97.7 W	65	Mounting kit 65 – Standard
		FE	Brand & certificate BARTEC, ATEX & IECEx

* Standard version

REMARK:
Due to the development of the national and international specifications and of the technology, the above technical characteristics showed on this bulletin can be considered as binding on our confirmation only.