



LUMISTAR ESL55LED-Ex Projector

- II 2G Ex db IIC T6 Gb
- II 2D Ex tb IIIC T80°C Db

For installation on sight glass fittings:

This sight glass light is crafted for universal applications, making it suitable for sight glass that integrate both observation and lighting functions (single flange version) or for use with two distinct sight glass (double flange version).

Advantages of Lumiglas LED technology:

Durable, long-lasting, and dependable LED lighting, with a lifespan of up to 50,000 hours. Perfect for equipment in hard-to-reach locations. Emits cool light without overheating, making it suitable for sensitive environments. Provides intense, high-contrast brightness.

Compact design, robust light output:

Glare-free illumination, compatible with DIN 28120/28121 sight glasses, DIN 11851 threaded connections, and flow indicators.

Application:

Lighting for flow indicators, pipelines, agitators, bioreactors, tanks, and silos in hazardous environments (Gas: 1/2, Dust: 21/22).

Protection classification:

IP65 and IP67 in accordance with DIN EN 60529

Operating conditions:

Regardless of internal pressure or vacuum, this fixture should not serve as a substitute for the mating flange or the complete sight glass flange assembly to seal a container orifice.

Lumistar luminaires of this type are certified for ambient temperatures ranging from -20°C to +40°C.

Technical specifications of explosion protection (Ex):

Adheres to safety and health standards in accordance with prevailing regulations.

Gas: EN 60079-0: 2012+A11:2013, EN 60079-1: 2014

Dust: EN 60079-0: 2012+A11:2013, EN 60079-31: 2014

Certificate of examination for BAT CEVS type EX EX 09 170

Operating voltage:

24 V AC/DC LED – 11 W/15 W

230 V AC/DC LED – 11 W/15 W safeguarded by a 1A miniature fuse.

Equipped with either 4 or 7 high-power LEDs.



Voltage and Beam Angle	Luminous flux	Color temperature
11 W - 26°	520 lm	5700 K
11 W - 11°	630 lm	5700 K
15W - 26°	930 lm	5700 K
15W - 11°	1100 lm	5700 K

Electrical connection:

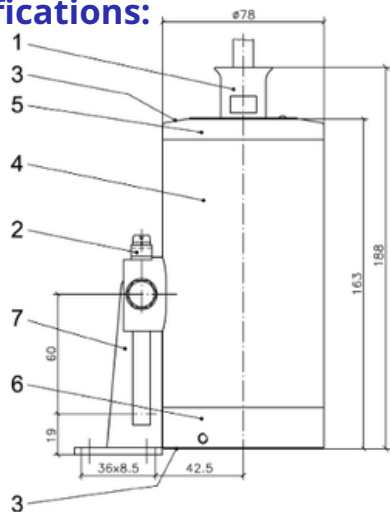
- Pre-installed cable (2 m standard), resin-molded within a waterproof cable gland, capable of withstanding temperatures up to 110°C.
- Other lengths available: 5 m, 10 m, 20 m.
- Screwed cable gland in accordance with EN 60079-14.

Fixation:

- Charnière
- Sleeve for aseptic assembly.
- Compatible dimensions:
- Sight glass DIN 28120/28121: DN 40
- Flow indicators: DN 50
- Screw connections DIN 11851 starting from DN 50
- DN 80 with articulated support.

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Dimensions and electrical specifications:



Components:

1. Ex d M20x1.5 cable gland
2. External protection terminal block
3. M4 stainless steel A2-70 securing screw
4. Luminaire housing
5. End cover
6. sight glass window glass
7. Articulated assistance

Components and materials:

- Luminaire housing and end cap: Stainless steel AlMgSi 0.5, RAL 9007 finish
- sight glass: Flange crafted from stainless steel AlMgSi 0.5 (RAL 9007) and borosilicate glass.
- Articulated mounting bracket: Stainless steel 1.4301 (refer to accessories)
- Cable gland: M20 x 1.5
- Weight (Including 2M cable) 1.5 kg

Login credentials:

- Classification of temperature and electrical parameters (refer to the type examination certificate).

ASL55LED-Ex (Variant)	Voltage (Volt)	Light	Ambient temperature -20°C ≤ Ta ≤ +40°C
(24 V) 11 W	24	4 LED	2G T6 / 2D T80°C
(120-230 V) 11 W	120-230	4 LED	2G T6 / 2D T80°C
(24 V) 15 W	24	7 LED	2G T6 / 2D T80°C
(120-230 V) 15 W	120-230	7 LED	2G T6 / 2D T80°C

Only the specified combinations of cable glands and cables shall be utilized:

Categories of cable glands
HSK-M-Ex-d, part number 9103.123.00 M20x1.5, nickel-plated brass (manufactured by Hummel)
KU1BPM20-Ex-d-Alpha X reference 9103.130.00 M20x1.5, nickel-plated brass (manufactured by RST)

Cable Varieties
Flexible EVA-sheathed cable, Sinotherm 110, reference 3403.017.00, 3x1.5 mm², diameter 8.5 mm
Ölflex Heat 180, reference 3403.045.00, 3x1.5 mm², diameter 8.9 mm
Ölflex Heat 180, Silflex UR-AWG18, part No. 3403.044.00, 5x1.0 mm², Ø 10.3 mm
Ölflex Classic 110 black, Part No. 3403.051.00, 3x1.5 mm², Ø 10.1 mm

Supplementary accessories:

- External timer
- Connection cable

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