



## ESL55LED-ALF-Ex Projector

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

### Application:

An optimal solution for robust illumination in compact areas, appropriate for deployment in ATEX zones. Engineered to provide superior lighting both inside and outside tanks in ATEX environments (zones 1&2 / 21&22).

### Advantages of Lumiglas LED technology:

The fiber optic LED projector is engineered to meet specific requirements: it features powerful lighting (High-Power LED), low energy consumption, an extended lifespan, a stainless steel sheath, and ease of cleaning.

### Compact design, robust light output:

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

### Protection classification:

IP65 and IP67 in accordance with DIN EN 60529

### Operating conditions:

For pressure or non-pressure tanks, compatible with DIN 28120 sight glasses or MV/SMS threaded fittings.

The LUMIFLEX LED ESL55 projector functions effectively in environments ranging from -20°C to +50°C.

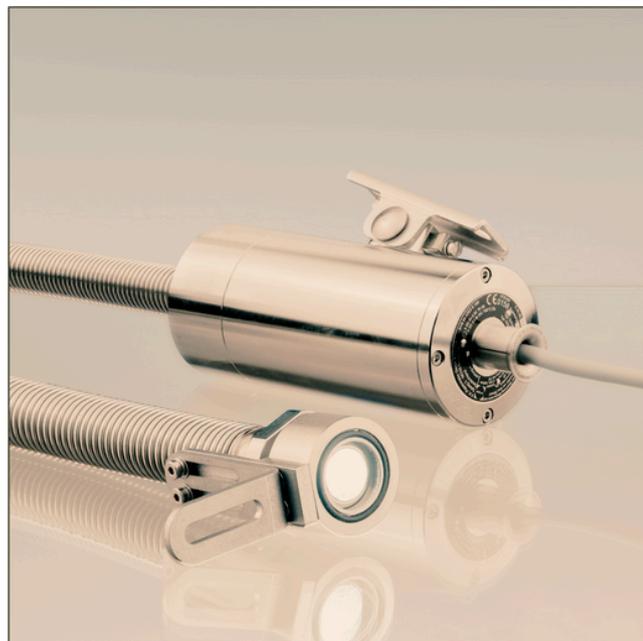
### Technical specifications of explosion protection (Ex): Appropriate for application in explosive environments:

Gas: explosion-proof protection (Ex d)

- Complies with the standards EN 60079-0:2012 + A11:2013 and EN 60079-1:2007.
- Explosion group: IIC (which encompasses IIA and IIB)
- Max temperature: T6 to 50°C

Dust: protection through encapsulation (Ex t)

- Complies with the EN 60079-0:2012 + A11:2013 and EN 60079-31:2009 standards.
- Explosion group: IIIC (which encompasses IIIA and IIIB)
- Max temperature: T80°C to 50°C



### Power supply and connectivity:

- Tension : 24 V AC/DC (LED 7 W) or 120-230 V AC/DC (LED 7 W)
- Protection: Internal micro-fuse
- Type of voltage: AC/DC
- Connection: Simplified wiring through Ex d cable gland

### Electrical Connection - Alternative Solutions:

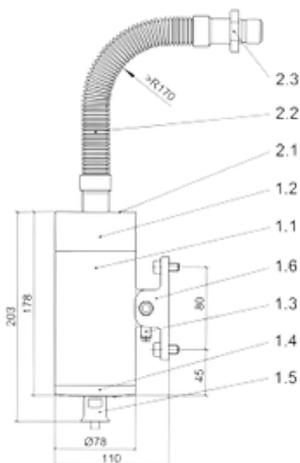
Non-removable molded cable (2 m standard, maximum temperature 110°C, 10 m option)

Cable gland in accordance with EN 60079-14/Section 10

Other cable glands and cables as specified in the table on page 2.

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## Dimensions and technical specifications for the 'Lumiflex' ESL55LED-ALF-Ex lighting.



### Components:

#### Illumination generator:

- 1.1 Alloy 1.4404
- 1.2 Lens glass 1.4404
- 1.3 Grounding fastener
- 1.4 Cover 1.4404
- 1.5 Cable gland M20 x 1.5 (Ex d)
- 1.6 Repairing lug

#### Stainless steel fiber optic casing:

- 2.1 Fiber-Glass Junction
- 2.2 Protective sheath made of stainless steel
- 2.3 Repairing the head

### Components and materials:

Generator body in 1.4404 stainless steel.

1.4404 stainless steel tip head, O-ring seal, borosilicate glass

1.4307 stainless steel mounting bracket

Sheath length to be specified: 0.5 m / 1 m / 1.5 m / 2 m / 3 m

Weight: 3.9 kg (without sheath)

### Access credentials:

ESL55LED-ALF-Ex	Voltage (Volt)	Ambient temperature -20°C ≤ Ta ≤ +50°C
24 V 7 W	24V AC/DC	T6 / T80 °C
120 V-230 V 7 W	120-230V AC/DC	T6 / T80 °C

### List of cable glands and cables suitable for ATEX approval:

Types of Cable Glands
3HSK-M-Ex-d, part number 9103.124.00, M20x1.5, 1.4404
KU1BPM20-Ex-d-Alpha X, part number 9103.131.00, M20x1.5, Stainless Steel

Cable Varieties
EVA sheathed cable, Sinotherm 110, part number 3403.017.00, 3x1.5 mm <sup>2</sup> , diameter 8.5 mm
Ölflex Heat 180, part number 3403.045.00, 3x1.5 mm <sup>2</sup> , diameter 8.9 mm
Ölflex Heat 180, Silflex UR-AWG18, part number 3403.044.00, 5 x 1.0 mm <sup>2</sup> , diameter 10.3 mm
Ölflex Classic 110 Black, part number 3403.051.00, 3x1.5 mm <sup>2</sup> , diameter 10.1 mm

### Supplementary accessories:

- The sheath length is offered as a standard option:

0.5 m, part number 3383.021.00

1.0 m, part number 3383.022.00

1.5 m, part number 3383.023.00

2.0 m, part number 3383.024.00

3.0 m, part number 3383.026.00

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