

Lumistar Luminaire Lumiflex'

ESL55LED-ALF-Ex



II 2G Ex db IIC T6 Gb

II 2D Ex tb IIIC T80°C Db

- **For mounting on sight glass fittings;** ideal for spotlighting processes on machines and reactors where space is restricted; suitable for use in potentially explosive operating areas.
- **This Lumistar luminaire has been specifically developed for light guidetechnology:**
 - extreme light efficiency thanks to high-power LED
 - low energy consumption
 - convenient to service due to long-life high-power LED
 - flexible light guide with stainless steel sheath
 - easy to clean
- **Application:**
For illuminating special processes and/or the interior of reactors, containers and apparatuses in potentially explosive environments, zones 1 and 2 as well as zones 21 and 22.
- **Protection class:** IP 65 and IP 67 according to DIN EN 60529
- **Operating conditions:**
Independent of vacuum/pressure in the vessel.
Under no circumstances should a sight glass luminaire be used as a substitute for the mating flange or instead of the complete sight glass flange assembly, or on its own to close a vessel port.
- **Caution:** Do not look into light – Danger of impaired eyesight!
- **Lumistar luminaires of this type are approved for use in ambient temperatures of between -20°C and +50°C.**
- **Technical data–Exprotection:**
This luminaire fulfils the fundamental health and safety regulations by complying with the provisions for:
 - a) **Gas**

EN 60079-0: 2012+A11: 2013	General requirements
EN 60079-1: 2014	Flameproof encapsulation 'd'
Explosion group:	IIC (includes IIA and IIB)
Temperature class:	T6 at ambient temperature 50°C
 - b) **Dust**

EN 60079-0: 2012+A11: 2013	General requirements
EN 60079-31: 2014	Protection by enclosure 't'
Explosion group:	IIIC (includes IIIA and IIIB)
Temperature class:	T80°C at ambient temperature 50°C
- **EU type examination certificate:** BVS 14 ATEX E 172 X
(X = The connecting cable must be protected against electrostatic discharge for applications in areas where there is a risk of dust explosions)
- **Operating voltage:**
 - 24 V AC/DC – 7 W
 - 120-230 V AC/DC – 7 W
 - Protected by internal micro-fuse.
 - Colour temperature: 6500 K
 - Luminous flux: 190 lm

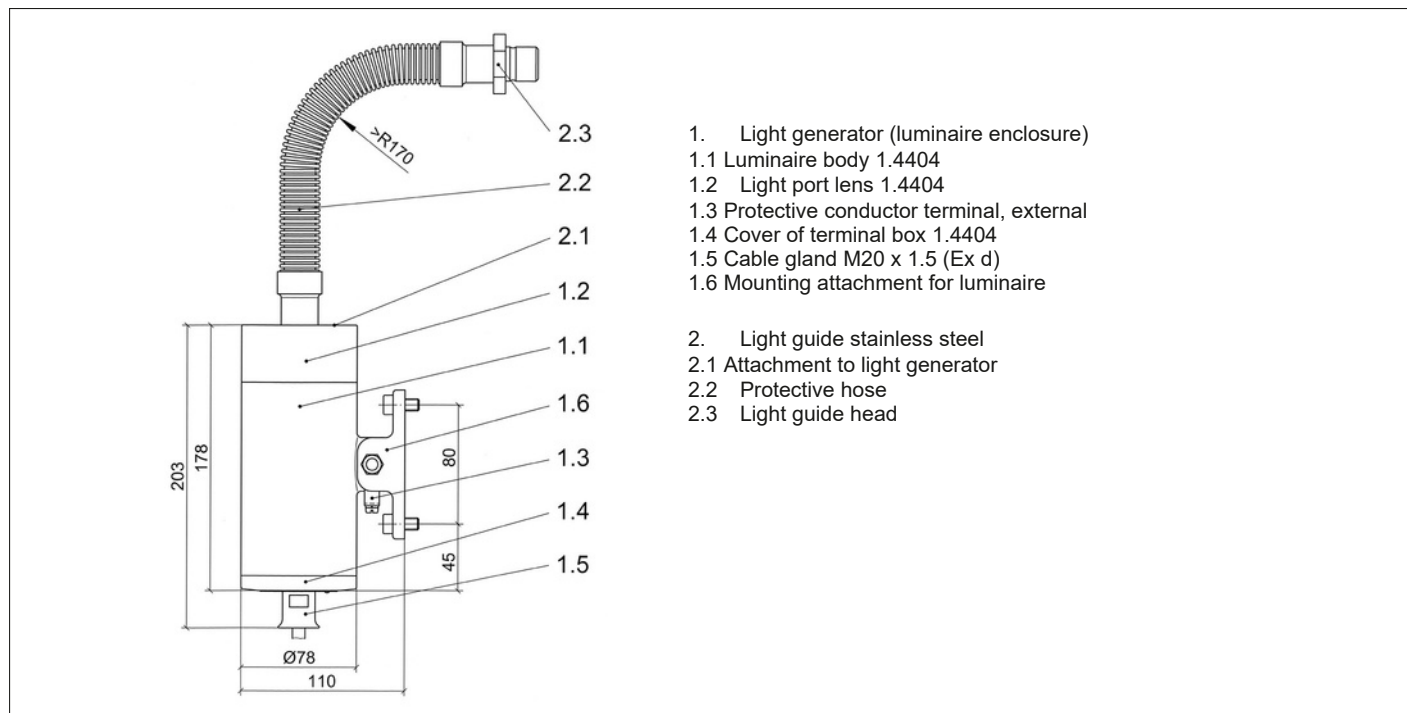


Lumistar luminaire 'Lumiflex' ESL55LED-ALF-Ex

- **Simple electrical connection by integrated cable tail or by Ex d cable entry gland**
- **Electrical connection–alternativeoptions:**
 - a) using the factory-fitted, pressure-tight encapsulated power lead (standard length 2 m), which is temperature-resistant up to 110°C, complete with screwed gland. Other cable length available on request: 10 m
 - b) by way of cable gland in compliance with EN 60079-14/ Section 10.
 - c) other types of cable glands and cables are shown in the table overleaf.

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• Dimensions and electrical data for Lumistar luminaire 'Lumiflex' ESL55LED-ALF-Ex



• Description and materials:

- Light generator: non-corrosive stainless steel 1.4404
- Light aperture: unit consisting of stainless steel ring, glass and O-ring
- Fastening elements for light generator: bracket (included in

scope of supply), stainless steel 1.4301, part no. 0354.031.00
 -Light guide (please specify length!) stainless steel attachment for light guide head (part no. 1947.005.00)
 -Weight: 3.9 kg (excl. light guide)

• Connecting data for Lumistar luminaire 'Lumiflex' ESL55LED-ALF-Ex:

ESL55LED-ALF-Ex	Part no.	Nominal voltage	Temperature class at ambient temperature -20°C to +50°C
24 V 7 W	3541.367.00	24 V AC/DC	T6 / T80°C
120 V-230 V 7 W	3541.368.00	120 V-230 V AC/DC	T6 / T80°C

• The following cable glands and cables should only be used in combination:

Cable gland types	Cable types
HSK-M-Ex-d, part no. 9103.124.00 M20x1.5, 1.4404 (from Hummel)	EVA sheathed cable, Sinotherm 110, part no. 3403.017.00, 3x1.5 qmm, ø 8.5 mm
KU1BPM20-Ex-d-Alpha X part no. 9103.131.00 M20x1.5, Edelstahl (from RST)	Ölflex Heat 180, part no. 3403.045.00, 3x1.5 qmm, ø 8.9 mm
	Ölflex Heat 180, Silflex UR-AWG18, part no. 3403.044.00, 5x1.0 qmm, ø 10.3 mm
	Ölflex Classic 110 Black, part no. 3403.051.00, 3x1.5 qmm, ø 10.1 mm

• Straightforward mechanical installation using special fixture for practical application:

- The light generator is mounted at a suitable place on the reactor, apparatus, etc., using the fastening element provided.
- The light guide must be mounted free of tension or twisting with a bending radius of at least 170 mm, together with the holder bracket of the light guide head.
- The light guide head is screwed to the place to be illuminated using the relevant stainless steel fastening unit.

• Accessories:

Light guides are available in the following lengths:

0,5 m	part no. 3383.021.00
1,0 m	part no. 3383.022.00
1,5 m	part no. 3383.023.00
2,0 m	part no. 3383.024.00
3,0 m	part no. 3383.026.00

Other light guide lengths can be supplied as special accessories.

• Order data:

e.g. Lumistar luminaire 'Lumiflex' ESL 55-LED-ALF-Ex, 230 V/7W, part no. 3541.368.00; light guide, length 1.5 m, part no. 3383.023.00; bracket for light guide head, part no. 1947.005.00

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