

Lumistar Luminaire ASL57LED-Ex



II 2G Ex d(e) IIC T6 Gb
II 2D Ex tb IIIC T80°C Db

• For mounting on sight glass fittings

This Ex-type sight glass luminaire is designed for universal applications and is ideal for use in combined sight and light ports (single-flange version) or with two separate ports (2-flange version).

• The specific advantages of Lumiglas LED technology:

- vibration-resistant
- long service life and operational reliability
- LED functions up to around 50,000 hours in continuous operations
- optimal for fittings that are difficult to access
- no heat radiation in the light aperture (cold light)
- no unwanted additional heat in chemical and/or biological processes
- extremely high-contrast illumination

• Compact design, powerful light output:

Glare-free illumination; suitable for circular sight glass fittings to DIN 28120/DIN 28121 or similar, for screw-type sight glass fittings in compliance with DIN 11851 and for sight glass fittings on flow indicators.

• Application:

For illuminating visual flow indicators, pipelines, laboratory mixers, bio-reactors as well as the interior of tanks, hoppers, silos, agitators and other, normally closed, vessels and reactors in potentially explosive environments.

• Protection class:

IP 65/IP 67

• Operating conditions:

Independent of vacuum/pressure in the vessel. Under no circumstances should a sight glass luminaire be used as a substitute for the cover 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 +40°C.

• EC type examination certificate:

BVS 14 ATEX E 122 X



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• Approved in accordance with EN 60079-ff

• Ignition protection category:

Ex d(e)

• Explosion groups:

IIC (includes IIA and IIB)
IIIC (includes IIIA and IIIB)

• Electrical Data:

Operating voltage/power:
24 V AC/DC – 35 W; 120-230 V AC – 35 W,
equipped with one high-power LED
Colour temperature: 5000 K
Luminous flux: 1840 lm

• Beam angle:

35°

CE 0158

3755.358 e



Lumistar luminaire ASL57LED-Ex

• Simple electrical connection using integrated cable or Ex 'e' terminal box

• Electrical connection options:

Variant I: with works-fitted encapsulated pressure-tight power lead with screwed cable gland, optionally 2 m (standard), 5 m, 10 m, 20 m on request or with different cable glands (cable gland types and cable types see table on reverse).

Variant II: using an integrated terminal box, type Ex 'e'

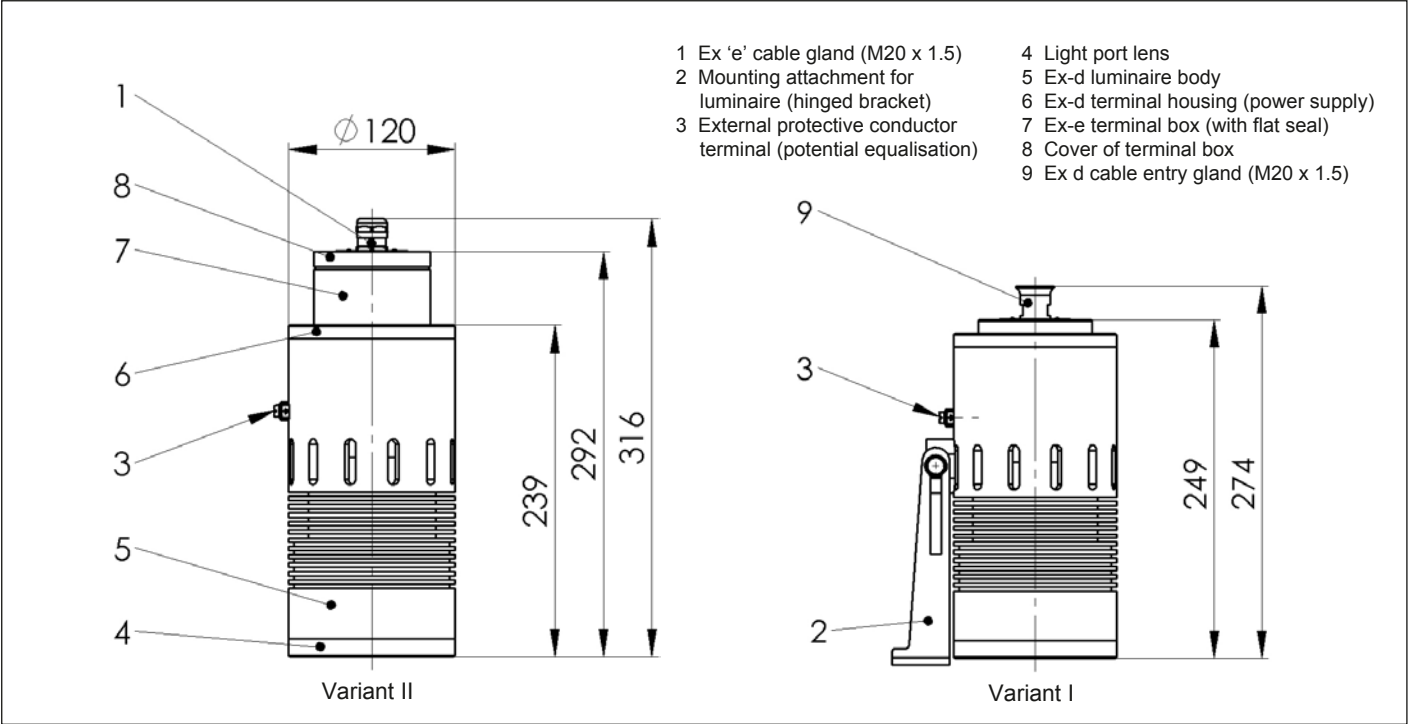
• Fastening options:

Luminaires for sight glasses on circular fittings and visual flow indicators are mounted on the cover flange by means of the hinged bracket. With screw-type sight glass fittings, the luminaire is attached to the slotted cover nut.

• The Lumistar luminaire ASL57LED-Ex fits the following nominal sizes:

- Circular sight glass fitting acc. to DIN 28120: DN 100
- Circular sight glass fitting acc. to DIN 28121: DN 125
- Sight glasses in flow indicators: DN 50
- Screw-type sight glass fittings similar to DIN 11851: the luminaire is fastened with a flange collar or direct on the slotted nut.

• Dimensions and electrical data for Lumistar luminaire ASL57LED-Ex:



• Components, design and materials:

- Luminaire body (5) and cover of terminal box (8): Aluminium alloy EN AW-2007, paint finish RAL 9007
- Light port lens (4): Unit consisting of ring flange (aluminium alloy EN AW-2007, paint finish RAL 9007), and borosilicate glass

- Hinged mounting bracket (2): Stainless steel 1.4301 (see accessories)
- Cable gland (9): M20 x 1.5

• Weight (with 2 m connecting cable): 4.6 kg

• Connecting data: Temperature classification and electrical parameters (see also: EC Type Examination Certificate)

Item	ASL57LED-Ex	Part No.	Voltage V	Illuminant	Ambient temperature range -20°C ≤ T _a ≤ +40°C	
Variant I (with connecting cable 2 m)						
1	(24 V) 35 W	3541.484.00	24 ≈	1 high-power LED	2G T6	2D T80°C
2	(120-230 V) 35 W	3541.482.00	120-230 ~	1 high-power LED	2G T6	2D T80°C
Variant II (with integrated terminal box)						
3	(24 V) 35 W	3541.483.00	24 ≈	1 high-power LED	2G T6	2D T80°C
4	(120-230 V) 35 W	3541.481.00	120-230 ~	1 high-power LED	2G T6	2D T80°C

• For variant I: Only combinations of the following cable entry glands and cables should be used:

Cable gland types	Cable types
HSK-M-Ex-d, part no. 9103.123.00 M20x1.5, nickel-plated brass (by Hummel)	EVA flexible sheathed cable, Sinotherm 110, p. no. 3403.017.00, 3x1.5 mm ² , ø 8.5 mm
KU1BPM20-Ex-d-Alpha X part no. 9103.130.00 M20x1.5, nickel-plated brass (by RST)	Ölflex Heat 180, part no. 3403.045.00, 3x1.5 mm ² , ø 8.9 mm
	Ölflex Heat 180, Silflex UR-AWG18, part no. 3403.044.00, 5x1.0 mm ² , ø 10.3 mm
	Ölflex Classic 110 black, part no. 3403.051.00, 3x1.5 mm ² , ø 10.1 mm

• Accessories:

Item	Component	Part No.
1	Luminaire mounting – hinged bracket	0354.029.00
2	Luminaire mounting – weld-on flange for DIN slotted nut	MV 65 = 1356.063.00; MV 80 = 1356.062.00; MV 100 and MV 125 = 1356.023.00
3	Luminaire mounting – flanged adapter for putting under	MV 125 = 1356.021.00; MV 150 = 1356.059.00

• Order data: e.g. Lumiglas luminaire ASL57LED-Ex, 24 V – 35 W, Ex d IIC T6 with 2 m connecting cable, part no. 3541.484.00

All dimensions in mm unless stated otherwise. Picture credits: ©F.H. Papenmeier GmbH & Co. KG. Subject to change without prior notice. 10.20