Lumiglas

Lumistar Luminaire ASL55LED-Ex II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db

• For mounting on sight glass fittings:

This 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 special advantages of Lumiglas LED technology: - vibration-proof

- long service life and operational reliability
- continuous LED operation up to around 50,000 hours
- optimal for fittings that are difficult to access
- no heat radiation in the light aperture (cold light)
- no unwanted additional heat in chemical 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 similar to 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.

Gas: Zones 1 and 2, Dust: Zones 21 and 22.

• Protection class: IP 65 and IP 67 acc. to DIN EN 60529

• Operating conditions:

Independent of the internal pressure/vacuum in the vessel. On no account 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.

· Lumistar luminaires of this type are approved for use in ambient temperatures of between -20°C and +40°C.

• Technical data Ex protection:

This luminaire meets the essential safety and health equirements by complying with the regulations for

a) Gas

EN 60079-0: 2012+A11:2013 EN 60079-1: 2014 Explosion group: Temperature class:

General Requirements Flame-proof Enclosures .d' IIC (includes IIA and IIB) T6

b) Dust EN 60079-0: 2012+A11:2013 EN 60079-31: 2014 Explosion group: Temperature class:

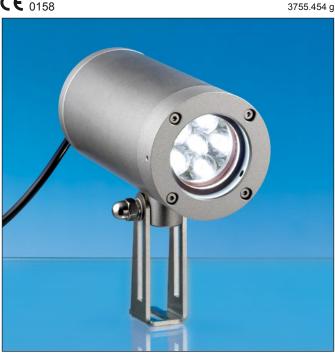
General Requirements Protection by Enclosures ,t' IIIC (includes IIIA and IIIB) T80°C

• EU-Type Examination Certificate: BVS 09 ATEX E 170 II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db

• Operating voltage:

24 V AC/DC - 11 W/15 W 110-230 V AC - 11 W/15 W Protected by 1A miniature fuse Equipped with 4 or 7 high-power LED

CE 0158



Lumistar luminaire ASL55LED-Ex

Voltage and beam angle	Luminous flux	Colour temperature		
11 W – 26°	520 lm	5700 K		
11 W – 11°	630 lm	5700 K		
15 W – 26°	930 lm	5700 K		
15 W –11°	1100 lm	5700 K		

· Simple electrical connection via integrated cable or via Ex d cable gland

• Electrical connection options:

a) Works-fitted connection cable (2 m standard length), resin-cast in screwed cable gland for pressure-tight cable entry, temperature-resistant up to 110°C. Other lengths available on request: 5 m, 10 m, 20 m

- b) By way of screwed cable gland acc. to EN 60079-14
- c) Other types of cable glands and cables are shown in the table overleaf.

• Fastening options:

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

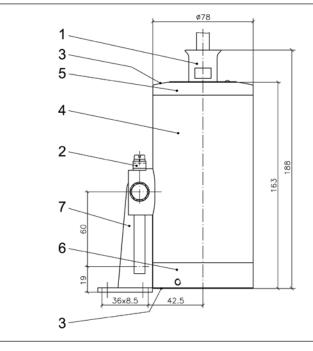
• The Lumistar luminaire ASL55LED-Ex fits the following nominal sizes:

- a) Circular sight glass fitting acc. to DIN 28120: DN 40
- b) Circular sight glass fitting acc. to DIN 38121: DN 40
- c) Sight glasses in flow indicators: DN 50
- d) Screw-type sight glass fittings similar to DIN 11851: - From DN 50 up, the unit is mounted by way of a separate flange attachment.
- From DN 80 up, the unit is secured using the hinged bracket.



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• Dimensions and electrical data for Lumistar luminaire ASL55LED-Ex:



Components and materials:

- Luminaire body (4) and end cover (5):

- Aluminium alloy AlMgSi 0.5, paint finish RAL 9007
- Light port lens (6): Unit consisting of ring flange (aluminium alloy AIMgSi 0.5, paint finish RAL 9007) and borosilicate glass

- 1 Ex d cable gland M20x1.5
- 2 External protective conductor terminal
- 3 Locking screws M4 A2-70
- 4 Luminaire body
- 5 End cover
- 6 Light port lens
- 7 Mounting attachment (hinged bracket)

- Hinged mounting bracket (7): Stainless steel 1.4301 (see accessories)
- Cable gland (1): M20x1.5

• Weight (with 2 m connecting cable): 1.5 kg

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

No.	ASL55LED-Ex Variant	Part No.	Voltage Volt	Illuminant	Ambient temp -20°C ≤ T	erature range a ≤ +40°C
1	(24 V) 11 W	3541.681.00	24 ~	4 LED	2G T6	2D T80°C
2	(120-230 V) 11 W	3541.682.00	120-230 ~	4 LED	2G T6	2D T80°C
3	(24 V) 15 W	3541.691.00	24 ~	7 LED	2G T6	2D T80°C
4	(120-230 V) 15 W	3541.692.00	120-230 <i>≃</i>	7 LED	2G T6	2D T80°C

*Versions possible: red, blue, ultraviolet, infrared

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, part no. 3403.017.00, 3x1.5 mm ² , Ø 8.5 mm	
	Ölflex Heat 180, part no. 3403.045.00, 3x1.5 mm², Ø 8.9 mm	
KU1BPM20-Ex-d-Alpha X part no. 9103.130.00	Ölflex Heat 180, Silflex UR-AWG18, part o. 3403.044.00, 5x1.0 mm², Ø 10.3 mm	
M20x1.5, nickel-plated brass (by RST)	Ölflex Classic 110 black, part no. 3403.051.00, 3x1.5 mm², Ø 10.1 mm	

• Accessories:

No.	Component	Part No.		
1	Luminaire mounting bracket (hinged)	0354.025.00		
2	Luminaire mounting attachment, flanged adapter collar MV65	1356.039.00		
3	Ex-timer switch	On request		
4	Connecting cable	On request		
5	Luminaire with Ex 'd' cable gland	On request		

Order data:

e.g. Lumistar luminaire ASL55LED-Ex (24V) 11 W, Ex db IIC T6, 4 LED, with 2 m connecting cable, part no. 3541.681.00

All dimensions in mm unless stated otherwise. Picture credits: ©F.H. Papenmeier GmbH & Co. KG. Subject to change without prior notice. 02.20



Tlf: 67 150 250 Faks: 67 150 251 Mail: post@instrumentteam.no Web: www.instrumentteam.no

NSTRUMENT **TEAM**

F.H.Papenmeier GmbH & Co. KG Talweg 2, 58239 Schwerte, Germany Phone: +49 2304 205 0 • Fax: +49 2304 205 206 info@lumiglas.de • www.lumiglas.de