



# Lumiglas Luminaire Aluminium ASL 55-LED-Ex CE 0158 II 2G Ex d 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 in potentially explosive environments. It is ideal for combined sight and light glass units, either as a single-flange version or with two separate flanged ports.

# • The special advantages of Lumiglas LED technology:

- Insensitive to vibration
- Long service life and high operational reliability
- Continuous operation of LED for up to c. 50,000 hours
- Ideal wherever fittings are difficult to access
- No heat radiation in the light port (cold light)
- No additional heat which is undesirable in chemical and/or biological processes
- High-contrast illumination

# • Compact yet powerful:

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

- Applications: 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 to DIN EN 60529
- Operating conditions: Independent of the internal pressure/ vacuum in vessel. Under no circumstances should a sight glass luminaire be used on its own to close a vessel port or to replace the cover flange or the sight glass/luminaire unit.
- Lumiglas luminaires of this series 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 requirements by complying with the regulations for a) Gas

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EN 60079-0: 2006	General Requirements
EN 60079-1: 2007	Flame-proof Enclosures 'd'
Explosion group:	IIC (includes IIA and IIB)
Temperature class:	Т6
b) Dust	

EN 60079-0: 2009 General Requirements EN 60079-31 Temperature class: T80°C

Protection by Enclosures 'tb' Dust group: 2009 IIIC (includes IIIA and IIIB)

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

# • Operating voltage:

LED 11 W/15 W 24 V AC/DC 120-230 V AC/DC LED 11 W/15 W Protected by 1A miniature fuse. Equipped with 3 or 6 high-power LEDs.

3755.454 d Data Sheet 07.55-02 LED



Lumiglas luminaire ASL 55-LED-Ex

Voltage: AC/DC

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

# • Electrical connection:

Connecting cable options: a) Works-fitted connection cable, resin-cast in screwed cable gland for pressure-tight cable entry (2 m standard),

- temperature-resistant up to 110°C. Alternative length available: 5 m, 20 m
- b) Without works-fitted connecting cable. A suitable cable for screwed gland (M20 x 1.5) is to be provided by the operating company!

#### • 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 grooved nut.

#### The Lumiglas luminaire ASL 55-LED-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: - DN 65 is mounted by way of a separate flange
  - attachment. - From DN 80 up, the unit is secured using the hinged bracket.



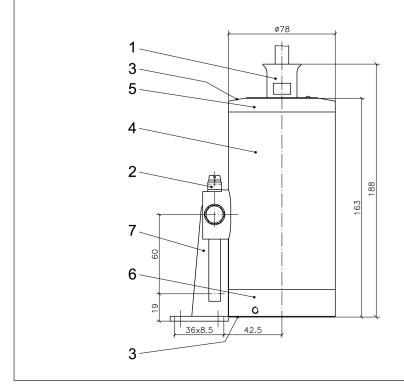




# lumiglas



# • Dimensions and electrical data for Lumiglas luminaires ASL 55-LED-Ex:



- Part No. 1 Ex d cable gland M20 x 1.5
  - 2 External protective conductor terminal
    - 3 Locking screws M4 A2-70
    - 4 Luminaire body
    - 5 End cover
    - 6 Light port lens
    - 7 Luminaire mounting bracket (hinged)

#### • Components, design and materials:

- Luminaire body (4) and end cover (5): Aluminium alloy AlMgSi 0.5, finish: RAL 9007
- Light port lens (6): Unit consisting of ring
- (aluminium alloy AlMgSi 0.5, finish: RAL 9007) and borosilicate glass
- Luminaire mounting bracket (7): Stainless steel 1.4301 (see accessories)
- Cable gland (1): M20 x 1.5

# • Weight (incl. 2 m connecting cable): 1.5 kg

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

No.	<b>ASL 55-LED-Ex</b> Variant	Part No.	Voltage	Illuminant		oerature range ₃ ≤ +40°C
1	(24 V) 11 W	3541.652.00	24 ~	3 LEDs	2G T6	2D T80°C
2	(120-230 V) 11 W	3541.653.00	120-230 <i>≃</i>	3 LEDs	2G T6	2D T80°C
3	(24 V) 15 W	3541.655.00	24 ~	6 LEDs	2G T6	2D T80°C
4	(120-230 V) 15 W	3541.656.00	120-230 <i>~</i>	6 LEDs	2G T6	2D T80°C

#### • 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	Please request data sheet 09.02
4	Connecting cable	On request
5	Luminaire with Ex 'd' screwed gland	On request

# • Order data: e. g.

Lumiglas luminaire ASL 55-LED-Ex, (24 V) 11 W, Ex d IIC T6, with 2 m connecting cable, Part No. 3541.652.00

All dimensions in mm unless stated otherwise. Subject to change without prior notice.



