Lumiglas Luminaire Stainless Steel ESL 55-LED-Ex

II 2G Ex d IIC T6 II 2D Ex tD A21 IP67 T80°C

• 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 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 sight 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.
- · Ideal for applications in sterile areas.
- 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

EN 60079-0: 2006 General Requirements EN 60079-1: 2007 Flame-proof Enclosures Explosion group: IIC (includes IIA and IIB)

Temperature class: T6

b) Dust

EN 61241-0: 2006 General Requirements EN 61241-1: 2004 Protection by Enclosures

Temperature class: T80°C

• EC-Type Examination Certificate: BVS 09 ATEX E 169

(E) | 2G Ex d | IIC T6 | II 2D Ex tD A21 | IP67 T80°C

Operating voltage:

24 V AC/DC LED 11 W 120-230 V AC/DC LED 11 W Protected by 1A miniature fuse.

Equipped with 3 high-power LEDs, approx. 3 W each.

C€ 0158

Data Sheet 07.55-01 LED



Lumiglas luminaire ESL 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, temperature-resistant up to 110°C.
Standard cable length: 2 m

Alternative length available: 10 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!

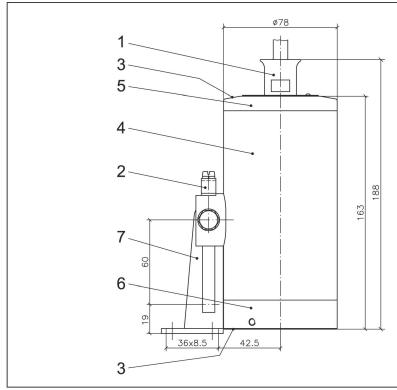
Fastening options:

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 type ESL 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.
- In sterile environments, this Lumiglas luminaire is fitted over the raised edge of the cover flange.

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



- Pos. 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):
- Stainless steel 1.4404, polished
- Light port lens (6): Unit consisting of ring
- (stainless steel 1.4404, polished) 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): 3.8 kg

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

No.	ESL 55-LED-Ex Variant	Part No.	Voltage	Illuminant	Ambient temperature range $-20^{\circ}\text{C} \leq \text{T}_{a} \leq +40^{\circ}\text{C}$	
1	(24 V) 11 W	3541.552.00	24 ≃	3 LEDs	2G T6	2D T80°C
2	(120-230 V) 11 W	3541.553.00	120-230 ≃	3 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	

• Order data: e. g.

Lumiglas luminaire ESL 55-LED-Ex, (24 V) 11 W, Ex d IIC T6, with 2 m connecting cable, Part No. 3541.552.00

All dimensions in mm unless stated otherwise. Subject to change without prior notice WW 03.10 $\,$ $\,$ 3755.453 b

COMPANY INFO: COMM - CO KREEKZOOM 9 4561 GX HULST THE NETHERLANDS TEL: +31114-370030 FAX: +31114-370029

E-MAIL: INFO@COMM-CO.COM WEBSITE: HTTP://WWW.COMM-CO.COM WEBSHOP: HTTP://WWW.ECOMMSHOP.COM

WWW.ATEXSHOP.COM WWW.RUGGEDSHOP.NL WWW.WEBPAINTER.NL WWW.WAVECOM.COM WWW.EYECCTV.NL