

Installation and Operating Instructions C€ 0158

Lumistar luminaire ESL25LED-Ex

II 2G Ex db IIC T6 Gb

· Important note:

Sight glass luminaires are intended for a specific purpose and are designed exclusively for mounting on or onto sight glass flange sockets. Under no circumstances may a sight glass lamp replace the mating flange or the complete sight glass flange socket or be used directly to cover a container opening. Luminaires for hazardous areas may only be installed. connected and maintained by specially trained and authorised personnel. It is essential to observe the data of the EU typeexamination certificate!

Caution: Do not look into light - danger of impaired eyesight!

· General operating conditions:

- Independent of vessel internal pressure/vacuum approved for use in Ex areas:

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

- Approved for use in ambient temperatures from

-20°C up to +60°C or up to +50°C, depending on capacity

· Electrical data, general:

- Voltage, power, temperature class and degree of protection can be found on the nameplate.
- Ex approval according to EU type examination certificate: **BVS 08 ATEX E 137**

II 2G Ex db IIC T6 Gb II 2D Ex th IIIC T80°C Db



The Lumistar luminaire ESL25LED-Ex is suitable for sight glasses in the following nominal sizes, using the appropriate mounting:

Type of fitting	from DN	Hinged bracket	Flanged ad. collar	
Circular sight glass fitting DIN 28120	25	yes	no	
Circular sight glass fitting DIN 28121	40	yes	no	
Tubular sight glass fitt.	50	yes	no	
	65	no	yes	
Screw-type sight glass fitting	80	yes	yes	
similar to DIN 11851	100	yes	no	
	125	yes	no	

0093.148.00



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· Mounting by way of hinged bracket:

The hinged bracket is used to secure the luminaire to the mating flange of a circular sight glass fitting (also suitable for visual flow indicators). Alternatively, it can be attached to the slotted cover nut of screw-type sight glass fittings to DIN 11851. The hinged bracket is fixed in place by turning the supplied M8 bolt into a blind hole which has previously been tapped in the pitch circle of the mating flange face. An additional option is to weld on the bracket.

· Mounting by way of flanged adapter collar:

The flanged adapter collar fits between the glass disk and the slotted cover nut (DIN 11851):

- Position appropriate seal between glass face and the flanged adapter collar
- Tighten the slotted cover nuts
- Insert the luminaire into the flanged collar
- Please note: The Lumistar luminaire variant for sterile technology is slipped over the collar of the sterile technology flange
- Tighten the lateral retaining screws

• Parameters/Temperature classification:

Item	ESL25LED-Ex	Variant with 2 m connection cable part no.	Variant with cable gland 7-12 mm part no.	Variant for sterile applic. with 2 m connection cable part no.	Ambient te rar -20°C ≤ T	nge
1	24 V AC/DC - 7.5 W	3540.924.00	3540.949.00	3542.015.00	2G T6	2D T80°C
2	110-230 V AC - 7.5 W	3540.925.00	3540.950.00	3542.016.00	2G T6	2D T80°C





· Electrical connection:

a) ESL25LED-Ex with cable tail

- The cable tail is already works-fitted in the luminaire and is ready for use.
- -The external protective conductor terminal (pos. 2) must be connected to separate operating earth.
- The connecting cable must be intercepted after a maximum of 1 m
- Attention! When replacing cables (e.g. other lengths), the inner connections must be loosened before unscrewing the cable entry.

Special operating conditions:

The Ex luminaires are manufactured with a permanently connected cable. The free ends of the connecting cable must be installed in a category 2G/2D enclosure if the connection is made in a potentially explosive atmosphere.

Before installing or repairing the luminaire, the luminaire and the area where it is to be installed must be cleaned of dust. The dismantled parts must be protected from contamination during installation or repair.

When closing the luminaire, make sure that the inside of the luminaire is free of dust. The connecting cable must be laid in such a way that static charging is ruled out.

b) ESL25LED-Ex with cable gland 7-12 mm

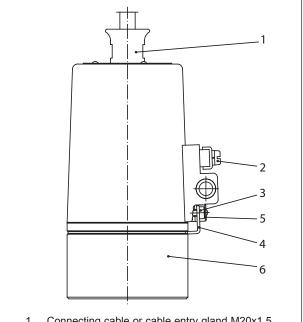
- Select connection cable suitable for cable entry M20x1.5
- The minimum temperature resistance of the connecting cable (if listed) can be found on the nameplate.

· Module change:

- Observe waiting time according to nameplate
- Loosen locking screw (pos. 3) for screwed glass (pos. 6); This releases the safety angle (pos. 4)
- Unscrew the screw glass (pos. 6) only with a mounting wrench
- Replace and connect the module
- Screw in the screw glass (pos. 6) again until it is tight. (pressure against the O-ring)
- Safety bracket (pos. 4) must engage in the groove provided so that the screw glass (pos. 6) is locked
- Tighten locking screw (pos. 3) again
- Apply voltage

Please note:

Please order mounting parts and claw spanner separately if needed.



- Connecting cable or cable entry gland M20x1.5
- External protective terminal
- 3 Locking screw
- Safety tab
- 5 Locking plate
- Screw-type glass lens

Replacement parts: Screwed glass Screwed glass, sterile O-ring seal (Viton) Cable gland 7-12 mm	Part no. 1774.129.00 1774.134.00 0862.113.00 9103.124.00
LED module 24 V AC/DC – 7.5 W LED module 110-230 V AC – 7.5 W	3858.038.00 3858.039.00
Cable entry gland complete with 2 m connection cable complete with 10 m connection cable	1084.021.00 1084.024.00

6816.001.00

· Maintenance:

- Keep luminaire clean

• Accessories: Claw spanner

- Before closing the luminaire again, re-grease the threads in the glass lens (6) using e.g. AEMA-SOL 6B from A. E. Matthes
- Use only original replacement parts

