



## LUMISTAR EX LAMPER, ATEX

Aluminium

P-L3541.186.00  
USL 07-Ex skueglas lampe 240-12V/50W

- Alle Ex skueglas lamper er godkendte til Zone 1
- Forsyningsspændig afhængig af type:  
12V/24V/120V/230V
- Effekt afhængig af størrelse: 20W, 50W, 100W
- Anvendelig til skueglas armatur DIN28120/DIN28121 og DIN11851
- De fleste i beskyttelsesklasse IP 65 og IP 67 iht. DIN EN 60529



### PRODUKTBESKRIVELSE

Lumistar Ex lamper til montering på glasfittings:

Denne type belysning til skueglas er designet til universelle anvendelser i eksplorationsfarlige omgivelser. Lumistar Ex lamper er ideelle til brug i kombineret syns- og lysanordning (enkeltflangue version) eller med to separate porte (2-flange version).

Kompakt design - kraftig lysudgang:

Egnet til cirkulære blikglasbeslag til DIN 28120 / DIN 28121 eller lignende, skruetype glasfittings i overensstemmelse med DIN 11851 og til visuelle flowindikatorer.

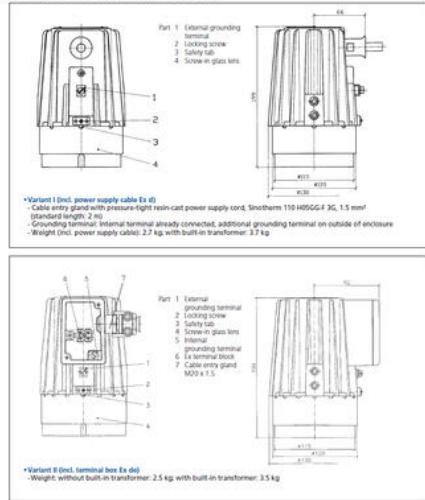
Generøs lysåbning og bekvem lampeudskiftning takket være optimalt designet skruet linselukning.

Anvendes til belysning af tanke, beholdere, siloer, omrørere og andre for det meste lukkede applikationer, beholdere og reaktorer samt visuelle flowindikatorer i eksplorationsfarlige omgivelser. Velegnet til brug i fødevareindustrien.

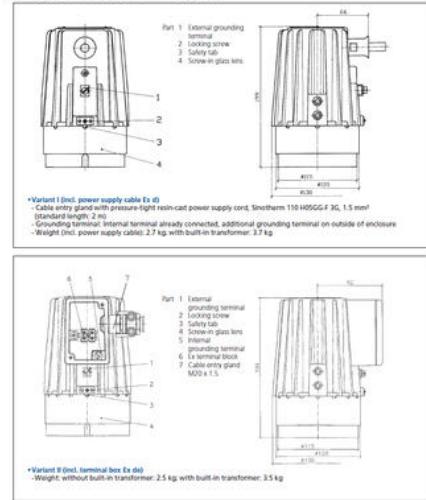
### SPECIFIKATIONER

<b>Effekt</b>	50 W
<b>Ex zone</b>	Zone 1
<b>IP-klasse</b>	IP65, IP67
<b>Materiale hus</b>	Aluminium
<b>Spænding</b>	240 V/12 V
<b>Temperaturområde fra</b>	-20 °C
<b>Temperaturområde til</b>	60 °C

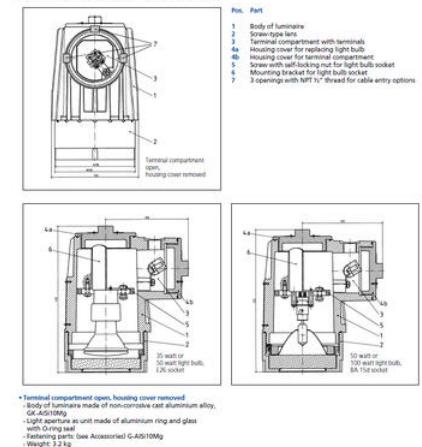
\* Dimensions and electrical data for Lumistar luminaire USL 07-Ex



\* Dimensions and electrical data for Lumistar luminaire USL 07-Ex



\* Dimensions and electrical data for Lumistar luminaire USL 08-Ex



\* Parts, design and materials:

- Luminaire shell (4) and end cover (3): AISI 316L stainless steel sheet 1.4041
- External grounding terminal: M20 x 1.5
- Screwed cable gland M20 x 1.5
- Light aperture as unit made of aluminum ring (aluminum or stainless steel) and glass (B)
- Mounting bracket (5): stainless steel AISI 316L (to be ordered extra)

• Weight: AISL 55-LED: 1.6 kg; ESL 55-LED: 3.6 kg

• Accessories – to be ordered separately!

- Mounting flange bracket, part no. 0354.025.00
- Mounting attachment - Flanged adapter collar for use with screw-type
- O-Ring (O-Ring for rear)
- Time-dict modules, external, for time-dependent lighting
- Push-fit contacts
- Optical 10° or 25° light aperture reflector

• Mechanical installation:

When installing the round sight glass fitting or the right flow indicator, the luminaire is mounted on the cover flange with the hinged bracket. With the screw-type sight glass fitting, the luminaire is fitted onto the flange and secured not by means of a flange attachment – see example 2.

The Lumistar luminaire AISL 55-LED and ESL 55-LED is compatible with the following mounted accessories:

- Circular sight glass fitting acc. to DIN 28125: DIN 40
- Circular sight glass fitting acc. to DIN 28121: DIN 40
- Screw-type sight glass fitting similar to DIN 11851: DIN 11851
- Flange mounting bracket (for rear) for rear-side adjustment – From DN 80 up, the unit is secured using the hinged bracket

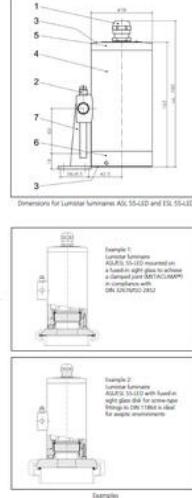
Lumistar luminaires AISL 55-LED and ESL 55-LED have a special adapter in the light port or a threaded feature, enabling this type of luminaire to be mounted on the luminaire body. External fasteners are required by using sight glasses fitted to a metal frame (M1TAGLAMP) or with the BioControl (INULAM) range of products. M1TAGLAMP combines optimally with stamp fittings from ACALAMP as well as with NA-Connect™ technology.

• For Lumistar luminaires intended for sterile environments, the following installation and fastening method is practice-proven:

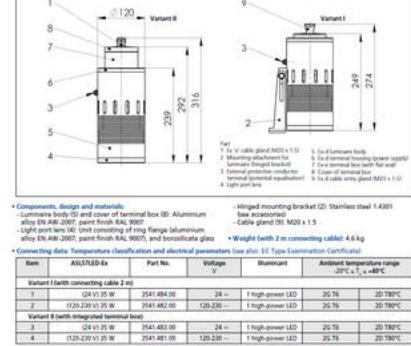
The luminaire is fitted over the flange and secured on the cover flange with a flat O-ring. An O-ring inserted between the two effectively seals the closure to the light port. An alternative is to mount the luminaire by means of an adapted clamped joint acc. to DIN 32616/50 2852.

This may be done using a standard clamped joint or a special annual construction with a fused-in sight glass (metal-glass fusion), see Example 1. When using screw-type sight glass fittings, the metal-glass ring is provided with a reinforced lip over which the luminaire body is fitted. The luminaire body is secured using the hinged bracket. Tightening the clamp then provides the necessary closing pressure, see Example 2.

Dimensions for Lumistar luminaires AISL 55-LED and ESL 55-LED



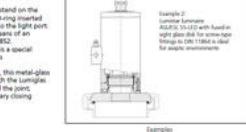
\* Dimensions and electrical data for Lumistar luminaire ASL537LE-Ex



\* Dimensions and electrical data for Lumistar luminaire USL 07-Ex



Dimensions for Lumistar luminaires ASL 55-LED and ESL 55-LED



\* Dimensions and electrical data for Lumistar luminaire USL 08-Ex



\* Parts, design and materials:

Luminaire shell (4) and end cover (3): AISI 316L stainless steel sheet 1.4041

Circular sight glass fitting acc. to DIN 28125: DIN 40

Sight glass LED in flow indicator: DIN 55

DN 50 mm by means of a separate flange attachment – From DN 80 up, the unit is secured using the hinged bracket

The Lumistar luminaire AISL 55-LED and ESL 55-LED is compatible with the following mounted accessories:

Circular sight glass fitting acc. to DIN 28125: DIN 40

Sight glass LED in flow indicator: DIN 55

DN 50 mm by means of a separate flange attachment – From DN 80 up, the unit is secured using the hinged bracket

Lumistar luminaires AISL 55-LED and ESL 55-LED have a special adapter in the light port or a threaded feature, enabling this type of luminaire to be mounted on the luminaire body. External fasteners are required by using sight glasses fitted to a metal frame (M1TAGLAMP) or with the BioControl (INULAM) range of products. M1TAGLAMP combines optimally with stamp fittings (M1TAGLAMP) as well as with NA-Connect™ technology.

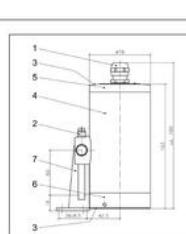
• For Lumistar luminaires intended for sterile environments, the following installation and fastening method is practice-proven:

The luminaire is fitted over the flange and secured on the cover flange, where it is secured in place. An O-ring inserted between the two effectively seals the closure to the light port.

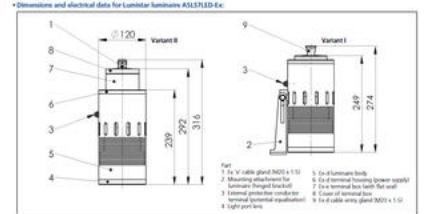
An alternative is to mount the luminaire by means of an adapted clamped joint acc. to DIN 32616/50 2852.

This may be done using a standard clamped joint or a special annual construction with a fused-in sight glass (metal-glass fusion).

When used with screw-type sight glass fittings, the metal-glass ring is provided with a reinforced lip over which the luminaire body is fitted. The luminaire body is secured using the hinged bracket. Tightening the clamp then provides the necessary closing pressure, see Example 2.



\* Dimensions and electrical data for Lumistar luminaire ASL537LE-Ex



\* Components, design and materials:

Luminaire body (5) and cover of terminal box (6): Aluminum alloy EN AW-2007, paint finish RAL 9007

Light aperture as unit consisting of ring flange (aluminum alloy EN AW-2007, paint finish RAL 9007) and borosilicate glass

Weight (with 2 m connecting cable): 4.6 kg

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

Cable gland types

EVA flexible sheathed cable, Smithnern 110, 0.8, 3x1.5 mm<sup>2</sup>, ø 8.5 mm

M20x1.5, part no. 3403.017.00, 3x1.5 mm<sup>2</sup>, ø 8.5 mm

KU1PM00-E/d Alpha x part no. 9100.130.00

Orflex heat 180, Siflex UR-AV/C18, part no. 3403.044.00, 5x1.5 mm<sup>2</sup>, ø 10.3 mm

Orflex classic 110 black, part no. 3403.051.00, 3x1.5 mm<sup>2</sup>, ø 10.1 mm

• Accessories:

Item Component Part No.

1 Mounting flange - hinged bracket

2 Luminaire mounting - Flanged adapter collar for welding on

MV15 / MV100 / MV100 and MV125

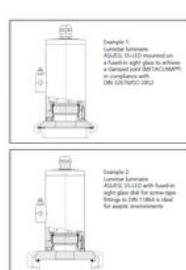
3 Ex-time delay switch

on request

• Order data: e.g. Lumistar luminaire ASL537LE-Ex (24 V) 35 W, Ex d IIC T6 with 2 m connecting cable, part no. 3541.484.00

Pos. Part

- 1 Body of luminaire
- 2 Locking screw
- 3 Terminal compartment with terminals
- 4 Grounding terminal
- 5 Housing cover for terminal compartment
- 6 Screw with self-locking nut for light bulb socket
- 7 Mounting bracket
- 8 3 openings with NPT ½" thread for cable entry options



\* Components, design and materials:

Luminaire body (5) and cover of terminal box (6): Aluminum alloy EN AW-2007, paint finish RAL 9007

Light port lens (4) Unit consisting of ring flange (aluminum alloy EN AW-2007, paint finish RAL 9007) and borosilicate glass

Weight (with 2 m connecting cable): 4.6 kg

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

Cable types

EVA flexible sheathed cable, Smithnern 110, 0.8, 3x1.5 mm<sup>2</sup>, ø 8.5 mm

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• Accessories:

Item Component Part No.

1 Luminaire mounting - hinged bracket

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MV15 / MV100 / MV100 and MV125

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