

LUMISTAR EX LAMPER, ATEX

Aluminium

P-L3540.035.00

USL 05-Ex skueglas lampe 12V/20W



- Alle Ex skueglas lamper er godkendte til Zone 1
- Forsyningsspænding 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 eksplosionsfarlige omgivelser. Lumistar Ex lamper er ideelle til brug i kombineret syns- og lysanordning (enkeltflange version) eller med to separate porte (2-flange version).

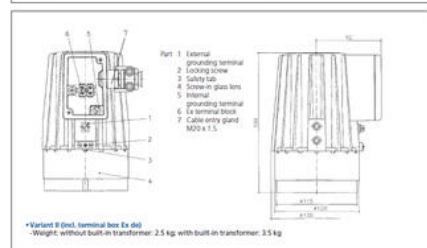
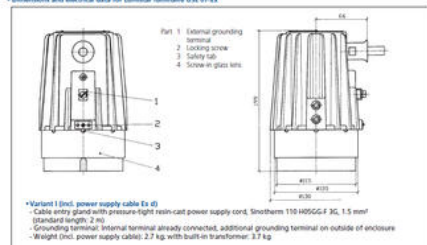
Kompakt design - kraftig lysudgang:

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

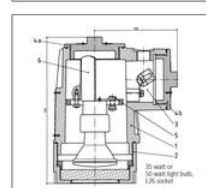
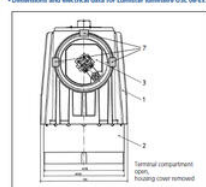
Generøs lysåbning og bekvem lampeudskiftning takket være optimalt designet skruet linselukning.

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

• Dimensions and electrical data for Lumistar luminaires USL 07-Ex



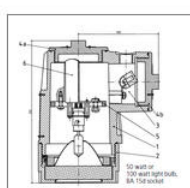
• Dimensions and electrical data for Lumistar luminaires USL 08-Ex



• Terminal compartment open, housing cover removed
• Body of luminaire made of non-corrosive cast aluminum alloy, G-AlSi10Mg
• Light aperture as unit made of aluminum ring and glass with O-ring seal
• Refracting parts: (see Accessories) G-AlSi10Mg
• Weight: 3.2 kg

Part 1 Body of luminaire
2 Screw-type lens
3 Terminal compartment with terminal
4 Housing cover for replacing light bulb
5 Housing cover for terminal compartment
6 Screw with self-locking nut for light bulb socket
7 Mounting bracket for light bulb socket

3 openings with MPT 1/2" thread for cable entry options



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• Body of luminaire made of non-corrosive cast aluminum alloy, G-AlSi10Mg
• Light aperture as unit made of aluminum ring and glass with O-ring seal
• Refracting parts: (see Accessories) G-AlSi10Mg
• Weight: 3.2 kg

• Parts, design and materials:
• Luminaire shell (AL) and end cover (ES)
• AL: SS-LED: corrosion-resistant aluminum alloy
• ES: SS-LED: stainless steel 1.4404
• Grounding cable gland (G) 1.5 mm²
• Light port as a unit consisting of a ring
• Aluminum or stainless steel and glass (B)
• Mounting with flanged bracket (D) stainless steel 1.4301 (to be ordered extra)

• Weight: AL: SS-LED: 1.6 kg; ES: SS-LED: 3.6 kg

• Accessories - to be ordered separately:
• Mounting bracket, part no. 0554-001
• Mounting attachment flanged adapter collar for use with screw-type light glass fittings (on request)
• Time delay module, external, for time-dependent lighting
• Pushbutton or switch
• Optional 10" or 20" light aperture reflector

• Mechanical installation:
When installing the round right glass fitting or the right flow indicator, the luminaire is mounted on the cover flange with the flanged bracket. With the screw-type right glass fitting, the lamp is mounted on the ground nut or by means of a flange attachment - see d) below.

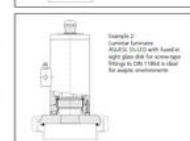
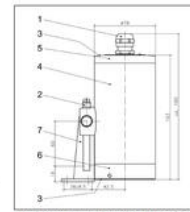
The Lumistar luminaires AL-ESL, SS-LED is compatible with the following standard diameters:
a) Circular right glass fitting acc. to DIN 28120: DN 40
b) Circular right glass fitting acc. to DIN 28121: DN 60
c) Right glass in flow indicator: DN 50
d) Screw-type right glass fittings similar to DIN 11851:
• DN 50: the unit is secured using the flanged bracket
• From DN 60: the unit is secured using the flange attachment

Lumistar luminaires AL, SS-LED and ES, SS-LED have a special adapter in the light port as a standard feature, making this type of lamp ideal for applications in aseptic and sterile environments. As an alternative it is possible to mount the luminaire by means of an adapted clamped joint acc. to DIN 1327/ISO 2852.

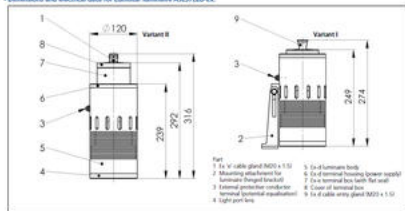
The mounting flange to the clamped connection is a special annular construction with a flange in right glass (metal/glass fusion), see Example 1.

• For Lumistar luminaires intended for sterile environments, the following installation and fastening method is practised:
• The luminaire is fitted over the flange made upstand 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 1327/ISO 2852.

When used with screw-type right glass fittings, the metal-glass ring is provided with a reinforced lip over which the luminaire is fitted. An O-ring is inserted to seal the joint, tightening the clamp then provides the necessary closing pressure, see Example 2.



• Dimensions and electrical data for Lumiglas luminaires ASL5LED-Ex:



- Components, design and materials:
- Luminaire body (1) and cover of terminal box (2): Aluminium alloy EN AW-2017, paint finish RAL 9005
- Light port lens (3): DMT consisting of ring flange (aluminium alloy EN AW-2017, paint finish RAL 9005), and borosilicate glass
- Hinged mounting bracket (2): Stainless steel 1.4301 (see Accessories)
- Cable gland (3): M20 x 1.5
• Weight (with 2 m connecting cable): 4.6 kg

• Connecting data: Temperature distribution and electrical parameters (see also I.C. Type Examination Certificate)

Item	ASL5LED-Ex	Part No.	Voltage V	Illuminant	Ambient temperature range °C
Variant I (with connecting cable 2 m)					
1	(24 V) 25 W	3541.484.00	24 ~	1 high-power LED	25 T6 20 T80°C
2	(120-230 V) 25 W	3541.482.00	120-230 ~	1 high-power LED	25 T6 20 T80°C
Variant II (with integrated terminal box)					
3	(24 V) 25 W	3541.483.00	24 ~	1 high-power LED	25 T6 20 T80°C
4	(120-230 V) 25 W	3541.481.00	120-230 ~	1 high-power LED	25 T6 20 T80°C

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

Cable gland types	Cable types
Exd-M-Ex d, part no. 9103.123.00	Exd flexible sheathed cable, Syntherm 110, p. no. 3403.017.00, 3x1.5 mm ² , ø 8.5 mm
M20x1.5, metal-plated brass (by Mumm)	Offflex heat 180, part no. 3403.045.00, 3x1.5 mm ² , ø 8.8 mm
Exd-M20x1.5, metal-plated brass (by Mumm)	Offflex heat 180, Synflex 120, part no. 3403.044.00, 3x1.5 mm ² , ø 10.3 mm
Exd-M20x1.5, metal-plated brass (by Mumm)	Offflex Classic 110 black, part no. 3403.051.00, 3x1.5 mm ² , ø 10.1 mm

• Accessories:

Item	Component	Part No.
1	Luminaire mounting - hinged bracket	3544.529.00
2	Luminaire mounting - flanged adapter collar for welding on M20x1.5-M20x1.5 and M12x12	MAV5 = 1256.903.00 / MAV6 = 1256.902.00 MAV 120 and MAV120 = 1256.923.00
3	Ex-time delay switch	on request

• Order data: e.g. Lumiglas luminaire ASL5LED-Ex (24 V) 25 W, Ex d IIC T6 with 2 m connecting cable, part no. 3541.484.00

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