

LUMISTAR EX LAMPER, ATEX

Aluminium

P-LS3540.306.00
USL 08-Ex UL 120V/50W



- 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:

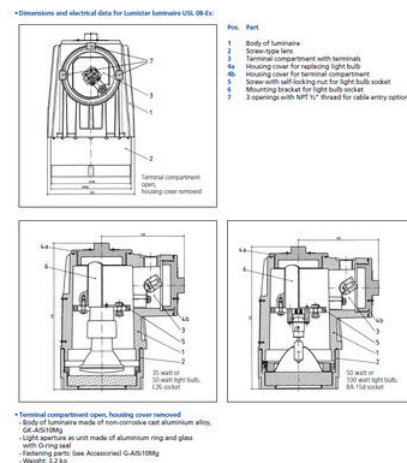
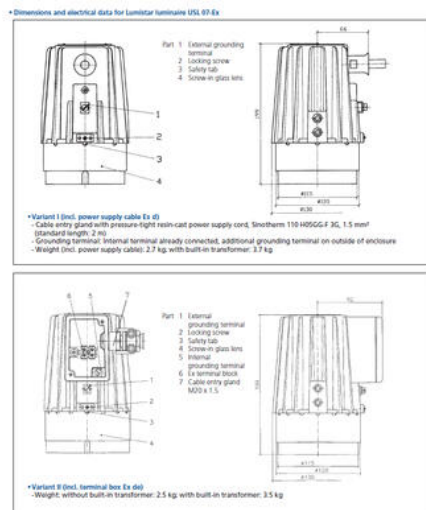
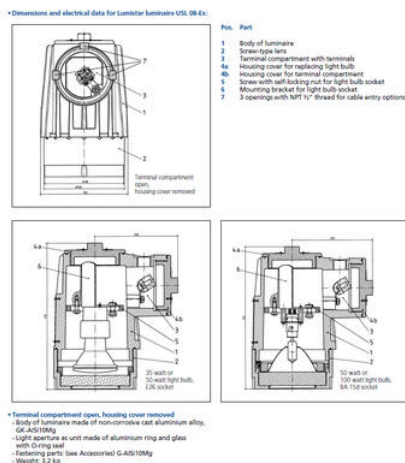
Denne type belysning til skueglas er designet til universelle anvendelser i eksplosionsfarlige omgivelser. Lumistar Ex lamper er ideelle til brug i kombineret syns- og lysanordning (enkeltflange version) eller med to separate porte (2-flange version).

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.



Part, design and materials:

- Luminaire shell (B) and end cover (B)
- ASL 55-LED: corrosion-resistant aluminum alloy
- ESL 55-LED: stainless steel 1.4304
- Screwed cable gland M20 x 1.5 (B)
- Light port as a unit consisting of a ring
- aluminum or stainless steel and glass (B)
- Mounting with hinged bracket (D), stainless steel 1.4301
- (to be ordered extra)

• Weight: ASL 55-LED: 1.4 kg, ESL 55-LED: 3.6 kg

Accessories:

- Mounting bracket (D), part no. 0354.025.00
- Mounting attachment flanged adapter collar for use with screw-type right glass fittings (on request)
- Right glass fittings (on request)
- Time dimmer 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 hinged 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.

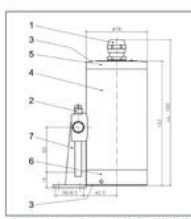
The luminaire luminaires ASL 55-LED and ESL 55-LED are compatible with the following nominal diameters:

- a) Circular right glass fitting acc. to DIN 28120: DN 40
- b) Circular right glass fitting acc. to DIN 28121: DN 40
- c) Light glasses in flow indicators: DN 50
- d) Screw-type right glass fittings similar to DIN 11851
- e) DN 50 is mounted by way of a separate flange attachment
- f) From DN 80 up, the unit is secured using the hinged bracket

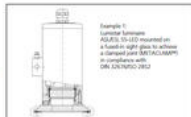
Luminaire luminaires ASL 55-LED and ESL 55-LED have a special aperture in the light port as a standard feature, making this type of lamp ideal for applications in aquatic and marine environments. Excellent results are assured by using right glasses fixed to a metal frame (METAGLAP) and with the BioControl (BIOUMCO) range of products. METAGLAP combines optimally with clamp fittings (METAGLAMP) as well as with NiteConnect™ technology.

For luminaire luminaires intended for sterile environments, the following installation and fastening method is practised:

- The luminaire is fitted over the flanged male tapered 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 12476/ISO 2852. The mating flange to the clamped connection is a special annular construction with a fused-in right glass (metaglass) feature, see Example 1.
- 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.

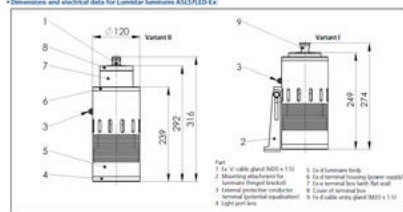


Dimensions for luminaire luminaires ASL 55-LED and ESL 55-LED



Examples

Dimensions and electrical data for luminaire luminaires ASL57LED-Ex:



- Components, design and materials:
 - Luminaire body (B) and cover of terminal box (B): Aluminum alloy EN AW-2007, paint finish RAL 9007
 - Light port lens (B): Unit consisting of ring flange (aluminum alloy EN AW-2007, paint finish RAL 9007), and borosilicate glass
 - Hinged mounting bracket (D): Stainless steel 1.4301 (see accessories)
 - Cable gland (B): M20 x 1.5
 - Weight (with 2 m connecting cable): 4.4 kg

Component data: Temperature classification and electrical parameters (see also: Ex Type Examination Certificate)

Item	ASL57LED-Ex	Part No.	Voltage V	Power W	Temperature range °C
Variant 1 (with connecting cable 2 m)					
1	Q24V 35 W	3541.484.00	24	1 high-power LED	20/70°C
2	120-230 V 35 W	3541.482.00	120-230	1 high-power LED	20/70°C
Variant 2 (with integrated terminal box)					
3	Q24V 35 W	3541.483.00	24	1 high-power LED	20/70°C
4	120-230 V 35 W	3541.481.00	120-230	1 high-power LED	20/70°C

For variant 1, only combinations of the following cable entry glands and cables should be used:

Cable gland types	Cable types
Ex d M (A-d), part no. 9103.123.00	Ex d Flexible sheathed cable, Sirotherm 110, p. no. 3403.017.00, 3x1.5 mm², ø 8.5 mm
Ex d M (A-d), metal-plated brass (by request)	Offshore heat 180, part no. 3403.045.00, 3x1.5 mm², ø 8.5 mm
Ex d M (A-d), metal-plated brass (by request)	Offshore heat 180, Sirotherm 110, part no. 3403.044.00, 3x1.5 mm², ø 8.5 mm
Ex d M (A-d), metal-plated brass (by request)	Offshore heat 180, Sirotherm 110, part no. 3403.043.00, 3x1.5 mm², ø 8.5 mm

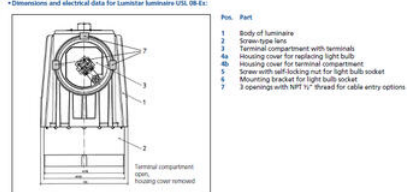
Accessories:

Item	Component	Part No.
1	Luminaire mounting – hinged bracket	0354.025.00
2	Luminaire mounting – flanged adapter collar for welding on M20 x 1.5 (M20 x 1.5) and M12 x 1.5	MV55 + 1256.963.00 / MV50 + 1256.962.00
3	Ex-time delay switch	on request

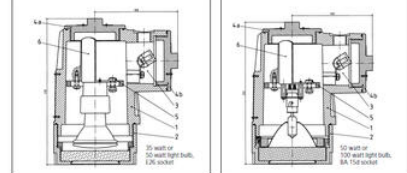
• Order data: e.g. Luminaire luminaire ASL57LED-Ex (Q24V) 35 W, Ex d IIC T4 with 2 m connecting cable, part no. 3541.484.00

See also: Ex Type Examination Certificate, Ex d IIC T4 with 2 m connecting cable, part no. 3541.484.00

Dimensions and electrical data for luminaire luminaires USL 08-Ex:



- Pos. Part
- Body of luminaire
 - Spring-type lamp
 - Terminal compartment with terminals
 - Housing cover for terminal compartment
 - Mounting bracket for light bulb socket
 - Mounting bracket for light bulb socket
 - 3 openings with NPT 1/4" thread for cable entry options



- Terminal compartment open, housing cover removed
- Body of luminaire made of noncorrosive cast aluminum alloy, G-AlSi10Mg
- Light aperture as unit made of aluminum ring and glass with O-ring seal
- Fastening part: see Accessories! G-AlSi10Mg
- Weight: 1.2 kg

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- Mounting with hinged bracket (D), stainless steel 1.4301
- (to be ordered extra)

• Weight: ASL 55-LED: 1.4 kg, ESL 55-LED: 3.6 kg

Accessories:

- Mounting bracket (D), part no. 0354.025.00
- Mounting attachment flanged adapter collar for use with screw-type right glass fittings (on request)
- Right glass fittings (on request)
- Time dimmer module, external, for time-dependent lighting
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Mechanical installation:

- When installing the round right glass fitting or the right flow indicator, the luminaire is mounted on the cover flange with the hinged 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.

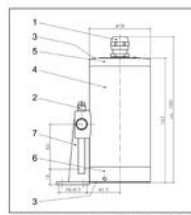
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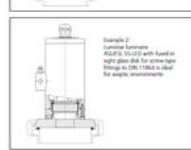
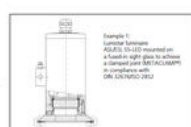
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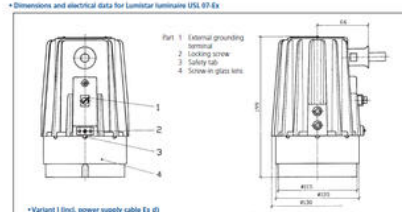


Dimensions for luminaire luminaires ASL 55-LED and ESL 55-LED

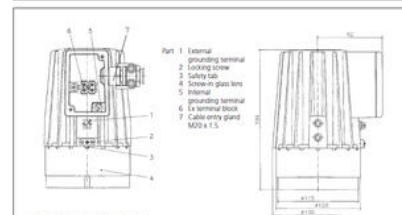


Examples

Dimensions and electrical data for luminaire luminaires USL 07-Ex:



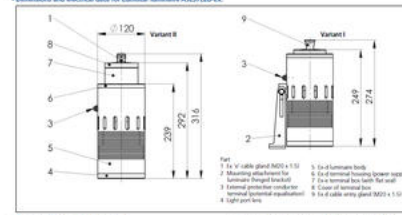
- Variant 1 (with power supply cable Ex d)
- Cable entry gland with pressure-tight train cast power supply cord, Sirotherm 110-HDSGG 3G, 1.5 mm² (standard length: 2 m)
- Grounding terminal: Internal terminal already connected, additional grounding terminal on outside of enclosure
- Weight (incl. power supply cable): 2.7 kg with built-in transformer: 3.7 kg



Variant 2 (incl. terminal box Ex d)

Weight: without built-in transformer: 2.5 kg with built-in transformer: 3.5 kg

Dimensions and electrical data for luminaire luminaires ASL57LED-Ex:



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Component data: Temperature classification and electrical parameters (see also: Ex Type Examination Certificate)

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Accessories:

Item	Component	Part No.
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2	Luminaire mounting – flanged adapter collar for welding on M20 x 1.5 (M20 x 1.5) and M12 x 1.5	MV55 + 1256.963.00 / MV50 + 1256.962.00
3	Ex-time delay switch	on request

• Order data: e.g. Luminaire luminaire ASL57LED-Ex (Q24V) 35 W, Ex d IIC T4 with 2 m connecting cable, part no. 3541.484.00

See also: Ex Type Examination Certificate, Ex d IIC T4 with 2 m connecting cable, part no. 3541.484.00