

LUMISTAR EX LAMPER, ATEX

Aluminium

P-L3541.103.00

USL 07-Ex skueglas lampe 24V/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.

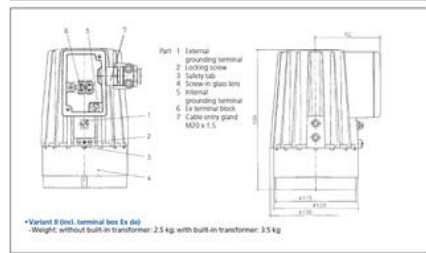
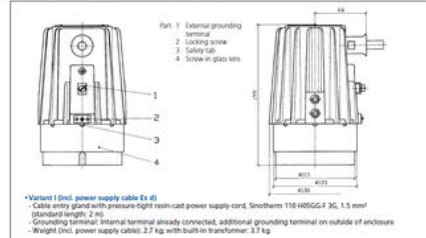
Generøs lysåbning og bekvem lampeudskiftning takket være optimalt designet skruet linselukning.

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.

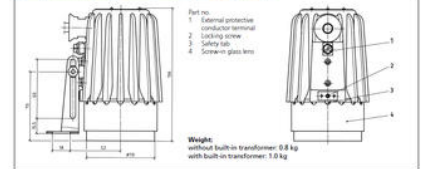
SPECIFIKATIONER

Effekt	20 W
Ex zone	Zone 1
IP-klasse	IP65, IP67
Materiale hus	Aluminium
Spænding	24 V
Temperaturområde fra	-20 °C
Temperaturområde til	60 °C

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



• Dimensions and electrical data for Luminaire luminaires USL 05-Ex and USL 05-LED-Ex



• Components, design and materials:
- Body of luminaire: corrosion-resistant die-cast aluminium alloy, GK-AL510Mg
- Cable gland with pressure-tight resin-cast connecting cable, Sirotherm 110 H05GG-F 3G, 1.5 mm², standard cable length: 2 m
- Protective conductor terminal: internal terminal already connected, additional external protective conductor terminal on enclosure
- Light exit: bonded unit made of aluminium ring and glass, Vision seal
- Fastening components: See accessories

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

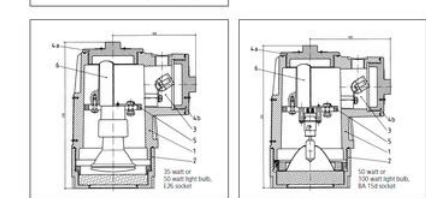
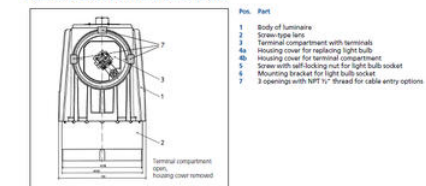
No.	Type USL 05-Ex	Part No.	Voltage	Built-in lamp on LED	Halogen lamp on LED	Ambient temperature range
1	12 V 15 W	3540.03.00	12 V	without	12 V 15 W G4	-20°C to +40°C, -20°C to +40°C
2	120 V 12 V 15 W	3540.03.00	120 V	with	12 V 15 W G4	-20°C to +40°C, -20°C to +40°C
3	230 V 12 V 15 W	3540.03.00	230 V	with	12 V 15 W G4	-20°C to +40°C, -20°C to +40°C
4	12 V 20 W	3540.03.00	12 V	without	12 V 20 W G4	-20°C to +40°C, -20°C to +40°C
5	120 V 12 V 20 W	3540.03.00	120 V	with	12 V 20 W G4	-20°C to +40°C, -20°C to +40°C
6	230 V 12 V 20 W	3540.03.00	230 V	with	12 V 20 W G4	-20°C to +40°C, -20°C to +40°C
7	12 V 25 W	3540.03.00	12 V	without	12 V 25 W G4	-20°C to +40°C, -20°C to +40°C
8	120 V 12 V 25 W	3540.03.00	120 V	with	12 V 25 W G4	-20°C to +40°C, -20°C to +40°C
9	230 V 12 V 25 W	3540.03.00	230 V	with	12 V 25 W G4	-20°C to +40°C, -20°C to +40°C

• Order data:
e.g. Luminaire USL 05-Ex, 12 V 20 W, Part no. 3540.03.00 with accessories: hinged bracket, Part no. 0354.03.00 and class spacer, Part no. 6816.00.00

• Accessories

No.	Component	Part No.
1	Luminaire mounting, hinged bracket, stainless steel	0354.03.00
2	Luminaire mounting, flanged adapter collar, stainless steel	1354.01.00
3	Luminaire timer module, Ex timer switch, external, for timed light switching	on request
4	Class spacer for screw-in lens, for opening the lamp	6816.00.00

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



• Terminal compartment open, housing cover removed
- Body of luminaire made of non-corrosive cast aluminium alloy, GK-AL510Mg
- Light aperture unit made of aluminium ring and glass with O-ring seal
- Fastening parts: See Accessories/GK-AL510Mg
- Weight: 3.2 kg

• Parts, design and materials

- Luminaire shell (80 and 100) and cover (80)
- AL510Mg corrosion-resistant aluminium alloy
- ES: 55-LED: stainless steel 1.4048
- Screwed cable gland M20 x 1.5 (1)
- Light port as a unit consisting of a ring (aluminium or stainless steel) and glass (80)
- Mounting with hinged bracket (10) stainless steel 1.4301 (70) be ordered extra!

• Weight: AL510Mg: 1.6 kg; ES: 55-LED: 3.6 kg

• Accessories - to be ordered separately!
1. Luminaire mounting, hinged bracket, stainless steel, Part no. 0354.03.00
2. Luminaire mounting, flanged adapter collar, stainless steel, Part no. 1354.01.00
3. Luminaire timer module, Ex timer switch, external, for timed light switching, on request
4. Class spacer for screw-in lens, for opening the lamp, Part no. 6816.00.00

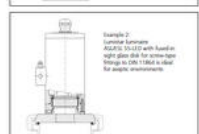
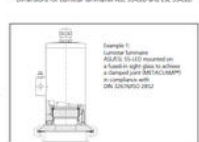
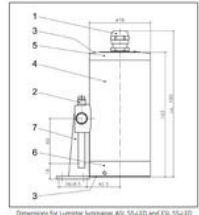
• Mechanical installation

When installing the round light glass fitting or the light flow indicator, the luminaire is mounted on the cover glass with the hinged bracket. With the screw-type light glass fitting, the lamp is mounted on the ground nut or by means of a flange attachment - see (1) below.

The Luminaire luminaires AL510Mg and ES: 55-LED is compatible with the following terminal 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 11881:
- DN 50 is mounted by use of a separate flange attachment from DN 80 up, the unit is secured using the hinged bracket

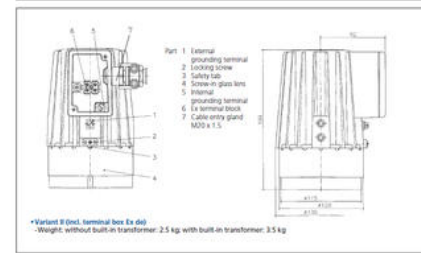
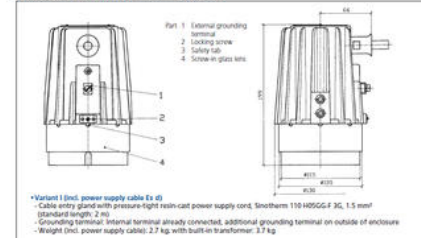
Luminaire luminaires AL510Mg and ES: 55-LED have a special adapter in the light port as a standard feature, making this type of lamp ideal for applications in electric and fluidic environments. Excellent results are achieved by using light glasses fitted to a metal frame (METAGLASS) and with the AL510Mg (ALUMINO) ring of products. METAGLASS combined optimally with clamp fittings (METACLAMP) as well as with NA Connect™ technology.

• For luminaire luminaires intended for sterile environments, the following installation and fastening method is prescribed:
- The luminaire is fitted over the flared male part of the cover glass, 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 insert the luminaire into the flared part of an adapted clamped joint acc. to DIN 32476/ISO 2852. The mating flange to the flared connection is a special annular construction with a fixed in light glass (metal glass fitting), see Example 1.
- When used with screw-type right glass fittings, this metal-glass ring is provided with a vented lip over which the luminaire luminaire is fitted. An O-ring is inserted to seal the joint, tightening the clamp then provides the necessary closing pressure, see Example 2.

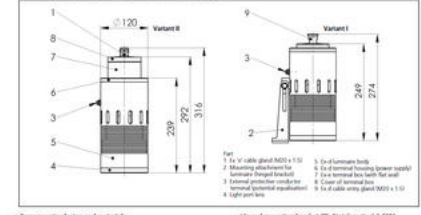


Examples

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



• Dimensions and electrical data for Luminaire luminaires AL510Mg-Ex



• Components, design and materials:
- Luminaire body (5) and cover of terminal box (6): Aluminium alloy EN-AB 2007, part finish RAL 9007
- Light port lens (4): Unit consisting of ring flange aluminium alloy EN-AB 2007, part finish RAL 9007, and borosilicate glass
- Hinged mounting bracket (2): Stainless steel 1.4301 (see accessories)
- Cable gland (9): M20 x 1.5

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

Item	AL510Mg-Ex	Part No.	Voltage	Fluorescent	Ambient temperature range
Variant I (with connecting cable 2 m)					-20°C to +40°C
1	230 V 25 W	3541.484.00	24 V	1 high-power LED	-20°C to +40°C
2	120 V 25 W	3541.482.00	120 V	1 high-power LED	-20°C to +40°C
Variant II (with integral terminal box)					-20°C to +40°C
3	230 V 25 W	3541.483.00	24 V	1 high-power LED	-20°C to +40°C
4	120 V 25 W	3541.481.00	120 V	1 high-power LED	-20°C to +40°C

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

Cable gland type	Cable types
H05KA-Ex, part no. 9103.123.00	EVA flexible sheathed cable, Sirotherm 110, p. no. 3403.017.00, 3x1.5 mm ² e 8.5 mm
M20x1.5, metal gland (See the manual)	Office head 180, part no. 3403.042.00, 3x1.5 mm ² e 8.5 mm
Ex-180/200-Ex-d-alpha Ex part no. 9103.136.00	Office head 180, Office Ex-180/200, part no. 3403.044.00, 5x1.5 mm ² e 10.3 mm
M20x1.5, metal gland (See the manual)	Office head 110 black, part no. 3403.051.00, 3x1.5 mm ² e 10.1 mm

• Accessories

No.	Component	Part No.
1	Luminaire mounting - hinged bracket	0354.03.00
2	Luminaire mounting - flanged adapter collar for welding on M20x1.5 and M20x1.5	MV15 = 1256.063.00 / MV150 = 1256.062.00
3	Ex-time delay switch	on request

• Order data: e.g. Luminaire luminaire AL510Mg-Ex (24 V) 25 W, Ex d Ex TC with 2 m connecting cable, part no. 3541.484.00

See also: EN 60529-1, EN 60529-2, EN 60529-3, EN 60529-4, EN 60529-5, EN 60529-6, EN 60529-7, EN 60529-8, EN 60529-9, EN 60529-10, EN 60529-11, EN 60529-12, EN 60529-13, EN 60529-14, EN 60529-15, EN 60529-16, EN 60529-17, EN 60529-18, EN 60529-19, EN 60529-20, EN 60529-21, EN 60529-22, EN 60529-23, EN 60529-24, EN 60529-25, EN 60529-26, EN 60529-27, EN 60529-28, EN 60529-29, EN 60529-30, EN 60529-31, EN 60529-32, EN 60529-33, EN 60529-34, EN 60529-35, EN 60529-36, EN 60529-37, EN 60529-38, EN 60529-39, EN 60529-40, EN 60529-41, EN 60529-42, EN 60529-43, EN 60529-44, EN 60529-45, EN 60529-46, EN 60529-47, EN 60529-48, EN 60529-49, EN 60529-50, EN 60529-51, EN 60529-52, EN 60529-53, EN 60529-54, EN 60529-55, EN 60529-56, EN 60529-57, EN 60529-58, EN 60529-59, EN 60529-60, EN 60529-61, EN 60529-62, EN 60529-63, EN 60529-64, EN 60529-65, EN 60529-66, EN 60529-67, EN 60529-68, EN 60529-69, EN 60529-70, EN 60529-71, EN 60529-72, EN 60529-73, EN 60529-74, EN 60529-75, EN 60529-76, EN 60529-77, EN 60529-78, EN 60529-79, EN 60529-80, EN 60529-81, EN 60529-82, EN 60529-83, EN 60529-84, EN 60529-85, EN 60529-86, EN 60529-87, EN 60529-88, EN 60529-89, EN 60529-90, EN 60529-91, EN 60529-92, EN 60529-93, EN 60529-94, EN 60529-95, EN 60529-96, EN 60529-97, EN 60529-98, EN 60529-99, EN 60529-100