

LUMISTAR EX LAMPER, ATEX

Aluminium

P-L3541.171.00

USL 07-Ex skueglas lampe 24V/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.

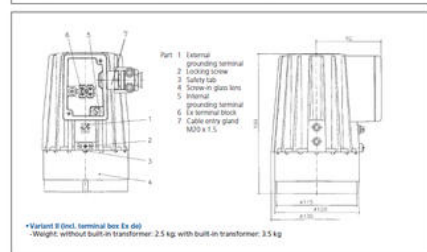
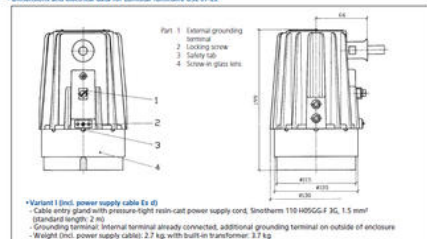
Generøs lysåbning og bekvem lampeudskiftning takket være optimalt designet skruet linselukning.

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.

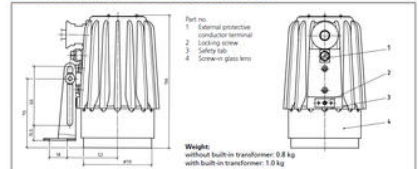
SPECIFIKATIONER

Effekt	50 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 Lumistar luminaires US1 07.6



* Dimensions and electrical data for Lumistar luminaires USL 05-Ex and USL 05-LED-Ex



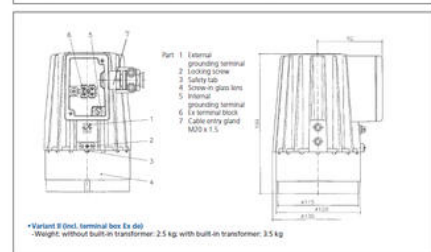
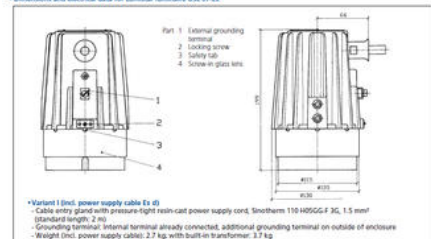
- **Components, design and materials:**
 - Body of luminaire: Corrosion resistant die-cast aluminium alloy, GX-ALSi10Mg
 - Cable gland with pressure-tight resin-cast connecting cable, Sinotherm 110 H95GG if 3G, 1.5 mm², standard cable length: 2 m
 - Protective conductor terminal: Internal terminal already connected, additional external protective conductor terminal on enclosure
 - Light exit: Bonded unit made of aluminium ring and glass; Viton seal
 - Fastening components: See accessories

Connecting data transmitters, voltage and electrical parameters (see also ETC Examination Certificate)						
	Typical type GTS 05, ETC type GTS 05	Part No.	Voltage	Built-in type transformer	Isolation test 400 V AC (Resistance)	Ambient temperature range
					Isolation test (Isotest)	-20°C < T < +40°C -20°C < T < +40°C
1	12 V 0.5 W	230 032 015	12 V	without	12 V 0.5 W	-20°C < T < +40°C
2	120 V 0.15 W	230 032 016	120 V	without	12 V 0.15 W	-20°C < T < +40°C
3	230 V 0.15 W	230 033 030	230 V	with	12 V 0.15 W	20 °C to 70 °C 20 °C to 70 °C
4						
5	12 V 0.2 W	230 035 015	12 V	without	12 V 0.2 W	20 °C to 70 °C 20 °C to 70 °C
6	120 V 0.3 W	230 037 016	120 V	without	12 V 0.3 W	20 °C to 70 °C 20 °C to 70 °C
7						
8						
9	230 V 1.4 W 0.02	230 055 030	230 V	without	230 V 1.4 W 0.02	-20 °C to 70 °C -20 °C to 70 °C

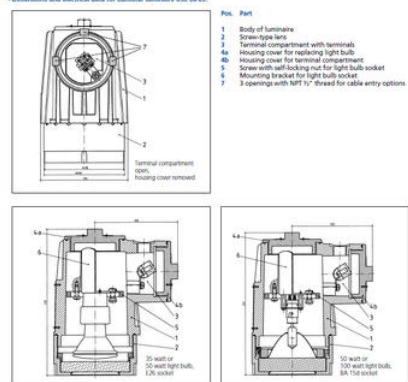
• **Order data:**
e. g. Lumistar luminaire USL 05-Ex, 12 V/20 W, Part no. 3540.035.00; with accessories: hinged bracket, Part no.: 0354.014.00 and claw spanner, Part no. 6816.001.00

No.	Component	Part No.
1	Luminaire mounting, hinged bracket, stainless steel	0154.014.00
2	Luminaire mounting, flanged adapter collar, stainless steel	1156.015.00
3	Lumiglas timer module, 6x timer switch, external, for timed light switching	on request
4	Claw spanner for screw-in lens, for opening the lamp	6816.001.00

* Dimensions and electrical data for Lumistar luminaires US1 02-Ex



* Dimensions and electrical data for Lumistar luminaire USL 08-E



- Terminal compartment open, housing cover removed
- Body of luminaire made of non-corrosive cast aluminium alloy, GX-AIS10Mg
- Light aperture as unit made of aluminium ring and glass with O-ring seal
- Fastening parts (see Accessories) GX-AIS10Mg
- Weight: 3.2 kg

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- **Parts, design and materials:**
 - Luminaire shell (40 and end cover (3):
 - ASL SS-LSD: corrosion-resistant aluminium alloy
 - ESL SS-LSD: stainless steel 1.4404
 - Screwed cable gland M20 x 1.5 (1)
 - Light port as a unit consisting of a ring (aluminium or stainless steel) and glass (8)
 - Mounting with hinged bracket (7): stainless steel 1.4301 (to be ordered extra)

- **Accessories** – to be ordered separately!
 - Mounting hinged bracket, part no. 0354.025.00
 - Mounting attachment flanged adapter collar for use with screw-type sight glass fittings (on request)
 - Time slot modules, external, for time-dependent lighting
 - Pushbutton or switch
 - Optional 10° or 25° light aperture reflector

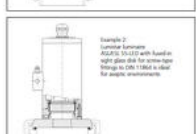
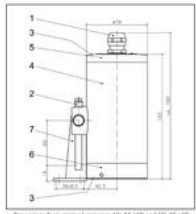
• **Mechanical installation:**
When installing the round sight glass fitting or the sight flow indicator, the luminaires is mounted on the cover flange with the hinged bracket. With the screw-type sight glass fitting, the lamp is mounted on the grooved nut or by means of a flange attachment - see D below.

The Lumistar luminaires ASL-ESL 55-LED is compatible with the following nominal diameters:

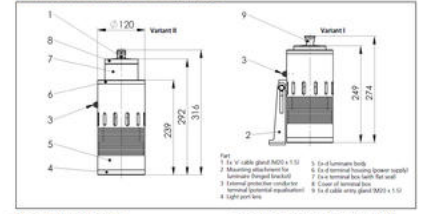
- a) Circular sight glass fitting acc. to DIN 28120: DN 40
- b) Circular sight glass fitting acc. to DIN 28121: DN 40
- c) Sight glasses in flow indicators: DN 50
- d) Screw-type sight glass fittings similar to DIN 11851:
 - DN 50 is mounted by way of a separate flange attachment
 - From DN 80 up, the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

Lumistar luminaires ASL 55-LED 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 aseptic and sterile environments. Excellent results are assured by using sight glasses fused to a metal frame (METAGLASS) and with the Bio-Control (NEUMOC) range of products. METAGLASS combines optimally with clamp fittings (METACLAMP) as well as with NA-Connect™ technology.

- For Lumistar luminaires intended for sterile environments, the following installation and fastening method is preferred:
 - The luminaire is fitted over the field male 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 as, to ISO 15858-2002.
 - The mating flange to the clamped connection is a special annular construction with a fused-in sight glass (metal-glass fusion), see Example 1.
 - When used with screw-type sight glass fittings, this 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 clamping pressure, see Example 2.



* Dimensions and electrical data for Lumistar luminaires ASIS/LED-Ex.



- Components, designs and materials:
 - Luminaires body (S2) and cover of terminal box (S3): Aluminium alloy EN AW-2007, paint finish RAL 9007
 - Light port lens (S4): Unit consisting of ring flange (aluminium alloy EN AW-2007, paint finish RAL 9007), and borosilicate glass
 - Hinged mounting bracket (Z): Stainless steel 1.4301 (see accessories)
 - Cable gland (S5): M20 x 1.5
- Weight (with 2 m connecting cable): 4.6 kg

Converting data: Temperature characterization and electrical parameters (see also: ETC Examination Certificate)						
Item	ASL7LED-Ex	Part No.	Voltage V	Element	Ambient temperature range -20°C ≤ T _a ≤ +40°C	
Variant 1 (with connecting cable 2 m)						
1	QIAV 35 W	2541-484.00	24 =	1 high-power LED	26 %	20 TBPC
2	I20-2120-20 W	2541-482.00	120-120	1 high-power LED	26 %	20 TBPC
Variant 2 (with integrated optical sensor)						
3	QIAV 35 W	2541-483.00	24 =	1 high-power LED	26 %	20 TBPC
4	I20-2120-20 W	2541-481.00	120-120	1 high-power LED	26 %	20 TBPC

Cable gland types	Cable types
MS-CAN (Ex II), part no. 9103 123 00 M20x1.5, nickel-plated brass (by Hummel)	DVA flexible sheathed cable, Synotherm 110, p. no. 3403 017 00, 2x1.5 mm ² x 0.85 m Offflex Heat 180, part no. 3403 045 00, 2x1.5 mm ² x 0.9 m
EU18P200 Ex-d-Alpha II, part no. 9103 130 00 M20x1.5, nickel-plated brass (by RST)	Offflex Heat 180, Siflex UR-AWG18, part no. 3403 044 00, 2x1.0 mm ² x 1.0 m Offflex Classic 110 black, part no. 3403 051 00, 2x1.5 mm ² x 1.0 m

Item	Component	Part No.
1	Luminaire mounting - hinged bracket	0254 029 00
2	Luminaire mounting - flanged adapter collar for welding on MV65 / MV80 / MV100 and MV125	MV65 + 1256 063 00 / MV80 + 1256 062 00 MV100 and MV125 + 1256 023 00
3	Ex-time delay switch	see page 60/61

* Order data: e.g. Lumiglas lumineaire ASL57LED-6x (24 V) 35 W, Ex d 3C T5 with 2 m connecting cable, part no. 3541.484.00