Lumiglas

Lumistar Luminaire USL 05-Ex, USL 05-LED-Ex II 2G Ex d IIC T3/T4/T6/120°C Gb II 2D Ex tb IIIC T80/T120/T130/T195°C Db

• For mounting on sight glass fittings:

This Ex-type sight glass luminaire is designed for universal applications in potentially explosive environments. It is ideal for use in combined sight and light-glass arrangements, either as a single flange version or with two separate flanged ports.

• Compact yet powerful:

Dazzle-free illumination; for use with circular sight glass fittings to DIN 28120/DIN 28121 or similar, with screw-type sight glass fittings in compliance with DIN 11851, and in visual flow indicators.

- Optimal design of screw-type lens ensures max. light efficiency.
- Application: For illuminating the interior of tanks, hoppers, silos, agitators and other - normally closed - vessels and reactors as well as visual flow indicators in potentially explosive environments. Gas: Zones 1 and 2, Dust: Zones 21 and 22. Suitable for use in food processing industries.
- Protection: IP 65 and IP 67 to DIN EN 60529
- Operating conditions:

Independent of the internal pressure/vacuum in vessel. Under no circumstances should a sight glass luminaire be used on its own to close a vessel port or to replace the mating flange or the sight glass/luminaire assembly.

- Lumistar luminaires of this series are approved for use in ambient temperatures of up to 60°C, depending on the lamp bulb fitted.
- Technical data Ex protection:

This luminaire meets the essential safety and health requirements by complying with the regulations for

General Requirements
Flame-proof Enclosures 'd'
IIC (includes IIA und IIB)
T3/T4/T6/120°C (depending on wattage)
General Requirements
Protection by Enclosures 't'
IIIC (includes IIIA und IIIB)
T80/T120/T130/T195°C (depend. on wattage)

• Certification: EC Type-Examination Certificate BVS 08 ATEX E 133 II 2G Ex d IIC T3/T4/T6/120°C Gb

(Ex) II 2D Ex tb IIIC T80/T120/T130/T195°C Db

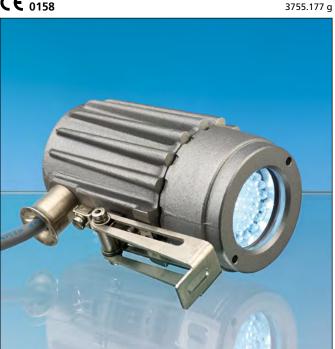
Voltage: Alternating/direct current, depending on lamp

• Operating voltage:

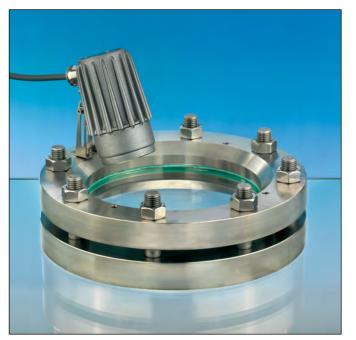
Without integrated transformer:						
12 V	Halogen lamp	5 W or 20 W				
24 V	Halogen lamp	20 W				
230 V	LED illuminant	4 W				
With integrated transformer; PTC-protected:						
120 V	Halogen lamp	12 V/5 W				
230 V	Halogen lamp	12 V/5 W				

- Convenient lamp replacement thanks to optimised screw-type opening
- Connecting cable: Works-fitted encapsulated pressure-tight power lead with screwed cable gland, optionally 2 m (standard), 5 m, 20 m, or externally tested and approved cable entry gland M 20 x 1.5

CE 0158



Lumistar luminaire USL 05-LED-Ex



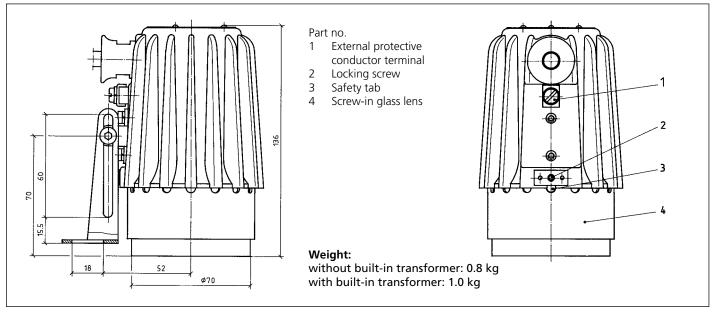
Combined light and sight glass assembly on a sight glass fitting acc. to DIN 28120; luminaire is mounted on a hinged bracket

- Simple installation by means of special bracket.
- Type USL 05-Ex fits the following nominal sizes:
- a) Circular sight glass fittings to DIN 28120, DIN 28121 and flow indicators; for attachment to cover flange: from DN 25 up.
- b) Screw-type sight glass fittings similar to DIN 11851; for attachment on or below the slotted nut:
 - DN 65, 80: by way of flanged adapter collar
 - DN 65, 80, 100, 125: by way of hinged bracket



Lumiglas

• 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, GK-ALSi10Mg

- Cable gland with pressure-tight resin-cast connecting cable, Sinotherm 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; Viton seal
- Fastening components: See accessories

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

No.	USL 05-Ex/ USL 05-LED-Ex	Part No.	Voltage	Built-in trans-	Halogen lamp or LED illuminant		Ambient temperature range			
	Variant			former	Voltage	Socket	-20°C ≤	۲ٍ ≤ +40°C	-20°C ≤	ਿ੍ਰ ≤ +60°C
1	(12 V) 5 W	3540.031.00	12 ≃	without	12 V/5 W	G4	2G T6	2D T80°C	2G T4	2D T130°C
2	(120 V/12 V) 5 W	3540.032.00	120 ~	with	12 V/5 W	G4	2G T6	2D T80°C	2G T4	2D T130°C
3	(230 V/12 V) 5 W	3540.033.00	230 ~	with	12 V/5 W	G4	2G T6	2D T80°C	2G T4	2D T130°C
4										
5	(12 V) 20 W	3540.035.00	12 ~	without	12 V/20 W	G4	2G T4	2D T130°C	2G T3	2D T195°C
6*	(24 V) 20 W	3540.037.00	24 ~	without	refl. 24 V/20 W	G4	2G T4	2D T130℃	2G T3	2D T195℃
7	(24 V) 20 W	3541.945.00	24 ≃	without	24 V/20 W	G4	2G T4	2D T130°C	2G T3	2D T195°C
8										
9	(230 V) 4 W-LED	3540.059.00	230 ≃	without	230 V/4 W-LED	GZ10	-	-	2G T6	2D T80°C

* replaced by No. 7

• 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

• Accessories:

No.	Component	Part No.
1	Luminaire mounting, hinged bracket, stainless steel	0354.014.00
2	Luminaire mounting, flanged adapter collar, stainless steel	1356.010.00
3	Lumiglas timer module, Ex-timer switch, external, for timed light switching	on request
4	Claw spanner for screw-in lens, for opening the lamp	6816.001.00

All dimensions in mm unless stated otherwise. Subject to change without prior notice. 07.17

