

Lumiglas Ex Fiber Optic Luminaire Type Lumiflex™ (model USL07 LF-Ex)

ISO 9001

Data sheet 02-0260 06/05

Ex II 2 G EEx de IIC T4/T6

- For mounting on sightglass fittings or for localized illumination of process operations in machines and reactors where there is limited space, primarily in Ex hazardous zones.
- The unit is comprised of a general purpose sightglass luminaire modified to provide a fiber optic system, particularly suitable for use on processes in Ex areas (zones 1 & 2) which require a light guide.
- The unit can be installed for combined light and sight duty as well as with Lumiglas Ex-camera technology.

The Lumiflex Luminaire, specially developed for light guide duties, is characterised by its:

- Extremely high light output for a mere 39 W power
- Low energy consumption
- Servicing intervals: filament lamp life greater than 6,000 hrs

Application:

For the illumination of process operations and/or the internals of vessels and plant in Ex hazardous areas designated zones 1 & 2 under IEC 79-10, where the available space is limited.

Protection:

Dust and water tight, IP 67 to EN 60529/DIN VDE 0470 Part 1

Operating conditions:

Independent of vessel internal pressure/vacuum

Lumiglas Lumiflex approved for use in ambient temperatures up to 60 °C.

Test certificate:

EC type test certification PTB 04 ATEX 2078
Ex II 2 G EEx de IIC T4/T6

Ignition protection:

EEx de (flame proof and increased safety) to EN 50014: 1997+A1+A2 and EN 50018: 2000 and EN 50019: 2000 and IEC 60079-28/CD

Explosion Group: IIC (includes groups IIA & IIB)

Temperature Class: up to T6

Electrical data and parts:

In accordance with type test certification

Power supply: Alternating current.

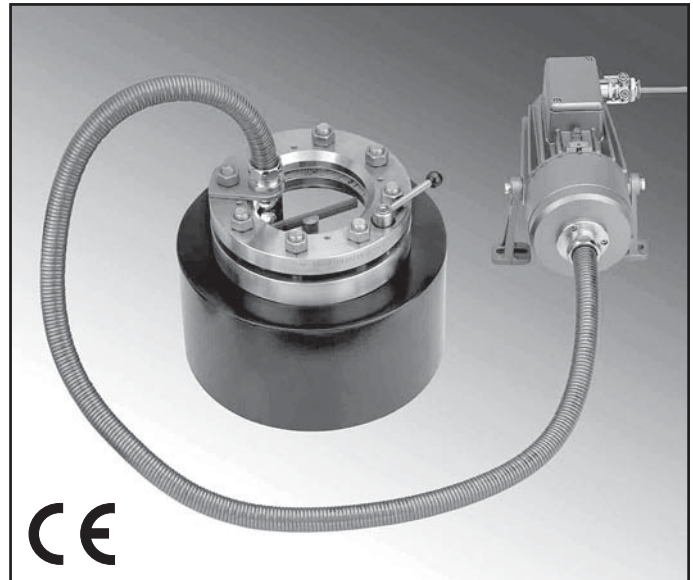
Operating voltages:

with integral transformer:

- 24 V... Halogen-filament lamp 12 V/20 W, 10 V/39 W
- 120 V... Halogen-filament lamp 12 V/20 W, 10 V/39 W
- 230 V... Halogen-filament lamp 12 V/20 W, 10 V/39 W

Easy electrical connections:

Using integral terminal box; cable entry gland M20 x 1.5

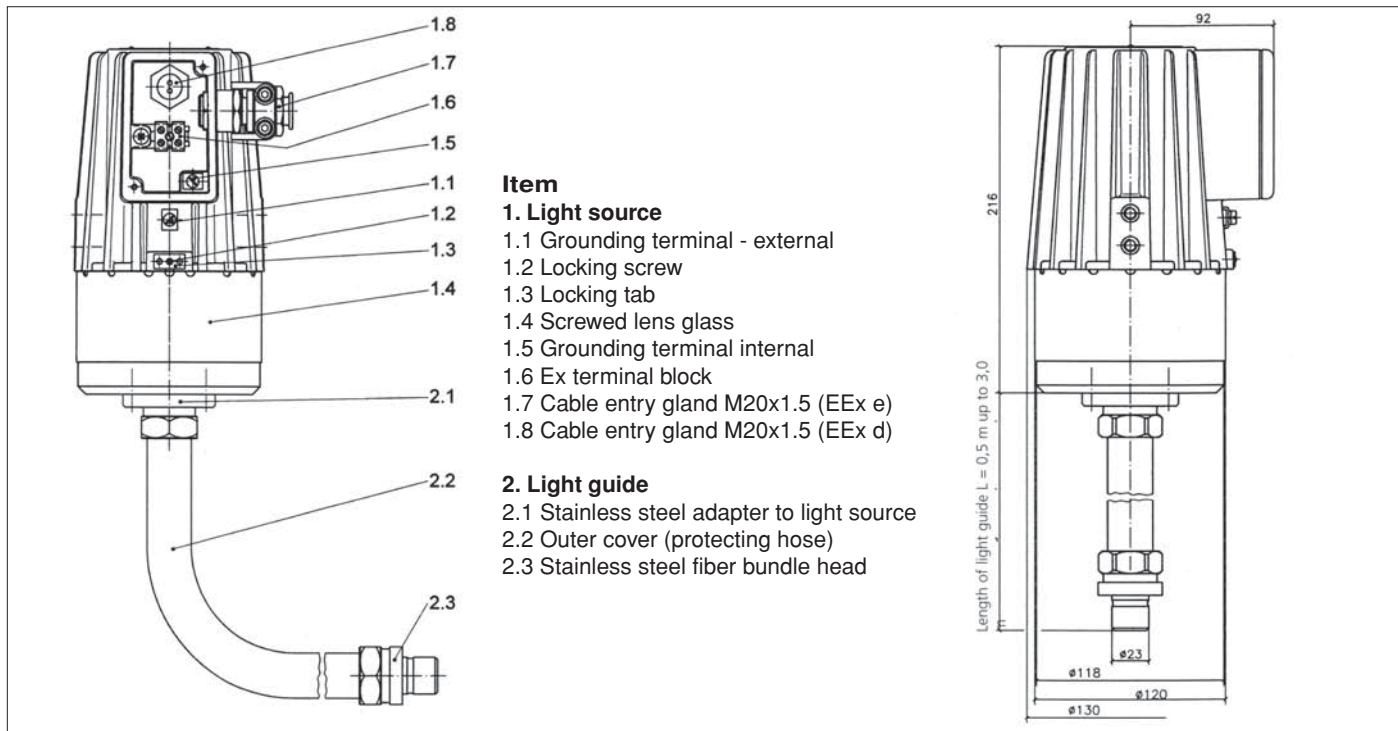


Lumiglas Ex fiber optic luminaire 'Lumiflex', model USL07 LF-Ex shown mounted on a DIN 28120 sightglass fitting combined with pressure tight Lumiglas wiper unit (Type II)



Lumiglas fiber optic luminaire 'Lumiflex' on 4" MetaClamp®

Electrical connecting data for Lumiglas Ex Fiber Optic Luminaire Type Lumiflex USL07 LF-Ex:



Parts, constructions and materials:

- Luminaire body: Corrosion resistant aluminium alloy casting GK-AISi12Mg
- Light exit: Aluminum/glass unit; O ring seal
- Mounting: Light source 2 part mounting bracket (incl. in supply) G-AISi10Mg (Cat.No. 0354.005.00)
- Fiber bundle: (please indicate required length) incl. stainless steel adapter to light exit head (Cat. No. 1947.005.00). Sheathing made of a chemical resistant high-grade polyurethane
- Weight: appx. 9.5 lbs.(excl. light guide)

Electrical connecting data for Lumiglas Ex light guide luminaire Lumiflex USL07 LF-Ex:

Model USL07 LF-Ex	Part No.	Supply V	Integral Transformer	Halogen-Fil. Lamp		Temp. class at max. ambient temp.	
				Voltage/ Power	Part No.	G 40° C	G 60° C
24 V (12 V) 20 W	EXFO-H20	24 ~	with	12 V/20 W	BLB-L20-AMP	T6	T4
24 V (10 V) 39 W	EXFO-H39	24 ~	with	10 V/39 W	BLB-F39-AMP	T6	T4
120 V (12 V) 20 W	EXFO-N20	120 ~	with	12 V/20 W	BLB-L20-AMP	T6	T4
120 V (10 V) 39 W	EXFO-N39	120 ~	with	10 V/39 W	BLB-F39-AMP	T6	T4
230 V (12 V) 20 W	EXFO-E20	230 ~	with	12 V/20 W	BLB-L20-AMP	T6	T4
230 V (10 V) 39 W	EXFO-E39	230 ~	with	10 V/39 W	BLB-F39-AMP	T6	T4

Ordering information:

e.g. Lumiglas Ex light guide luminaire 'Lumiflex' USL07 LF-Ex,230/10 V, 39 W, Part No. EXFO-E39 with light guide length 1.5 m, cat. no. 3383.012.00 (refer also to accessories)

Simplified mechanical mounting with specially designed fixing brackets:

Using the specially designed mounting bracket the light source is mounted at a suitable point on the reactor or plant in such a way that the fiber bundle is suspended free of tensile or torsional stress with a curvature radius of not less than 125 mm, e.g. mounted on a sightglass fitting or other required location.

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

Accessories:

- Claw spanner matching screwed lens ring for opening light generator, cat. no. 6805.002.00
- Light guides are available in the following standard lengths: (please indicate length required!)
 - 0.5 m cat. no. 3383.010.00
 - 1.5 m cat. no. 3383.012.00
 - 3.0 m cat. no. 3383.015.00
- Other light guide lengths can be supplied to special order. Prices according to length on request.
- EEx time delay push button switch unit, externally mounted for timed illuminating periods (see data sheet 02-0270).

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