

Lumiglas Ex light guide luminaire 'Lumiflex', model USL07 LF-Ex

data sheet 07.21

⊕ II 2 G EEx de IIC T4/T6

- For mounting on sightglass fittings or for localised illumination of process operations in machines and reactors where there is limited space, primarily in **Ex hazardous zones**.
- The unit comprises a general purpose sightglass luminaire modified to provide a light guide system, particularly suitable for use on processes in Ex areas (zones 1 & 2) which require a light guide.
- Can be installed for combined light and sight duty as well as with Lumiglas Ex-camera technology.
- **The Lumiglas luminaire, specially developed for light guide duties, is characterised by its:**
 - extremely high light output for a mere 39 W power
 - frugal energy consumption
 - servicing intervals: filament lamp life > 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 does not permit the use even of the mini Ex Lumiglas luminaire model USL05-Ex.
- **Protection:**
Dust and water tight, IP 67 to EN 60529/DIN VDE 0470 Part 1
- **Operating conditions:**
Independent of vessel internal pressure/vacuum
- **Lumiglas luminaries of this model range are approved for use in ambient temperatures of up to 60 °C.**
- **Test certificate:**
EC type test certification PTB 04 ATEX 2078
⊕ 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 (all explosion classes)
- **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

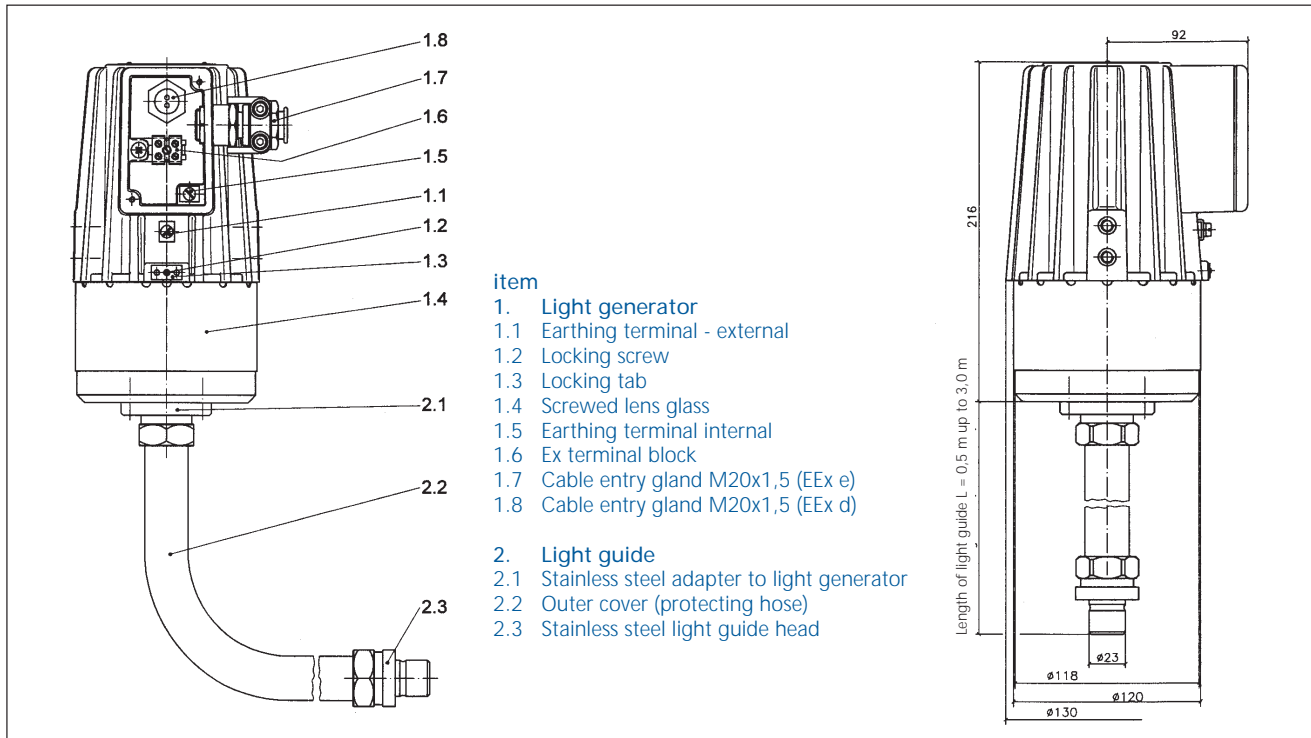


Lumiglas light guide luminaire USL07 LF-Ex



Lumiglas Ex light guide luminaire 'Lumiflex', model USL07 LF-Ex shown mounted on a DIN 28120 flanged sightglass fitting combined with pressure tight Lumiglas wiper unit (Typ SW II BW)

• **Dimensions and electrical data for Lumiglas Ex light guide luminaire Lumiflex model USL07LF-Ex**



• **Parts, constructions and materials:**

- **Luminaire body:** Corrosion resistant aluminium alloy casting GK-AISI12Mg
- **Light exit:** Aluminium/glass unit; O ring seal
- **Mounting:** Light generator 2 part mounting bracket (incl. in supply) G-AISI10Mg (Cat.No. 0354.005.00)

- **Light guide:** (please indicate required length) incl. stainless steel adapter to light exit head (Cat. No. 1947.005.00)
- **Weight:** appx. 4,3 kg (excl. light guide)

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

Model USL07 LF-Ex	Cat. No.	Supply V	Integral transformer	Halogen-Fil. Lamp		Temp. class at max. ambient temp.	
				Voltage/Power	Cat. No.	G 40° C	G 60° C
24 V (12 V) 20 W	3540.648.00	24 ~	with	12 V/20 W	3232.279.00	T6	T4
24 V (10 V) 39 W	3540.647.00	24 ~	with	10 V/39 W	3232.280.00	T6	T4
120 V (12 V) 20 W	3540.644.00	120 ~	with	12 V/20 W	3232.279.00	T6	T4
120 V (10 V) 39 W	3540.642.00	120 ~	with	10 V/39 W	3232.280.00	T6	T4
230 V (12 V) 20 W	3540.645.00	230 ~	with	12 V/20 W	3232.279.00	T6	T4
230 V (10 V) 39 W	3540.643.00	230 ~	with	10 V/39 W	3232.280.00	T6	T4

• **Ordering information:**

e.g. Lumiglas Ex light guide luminaire 'Lumiflex' USL07 LF-Ex, 230/10 V, 39 W, cat. No. 3540.643.00
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 generator is mounted at a suitable point on the reactor or plant in such a way that the light guide is suspended free of tensile or torsional stress with a curvature radius of not less than 30 cm, e.g. mounted on a sightglass fitting or another required location.

• **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 09.02).

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