

Mini-Lumiglas luminaire stainless steel USL 01 and USL 31

USL 01: for general applications, can be mounted using a hinged bracket, a clamp fastening, or a flanged adapter collar.

USL 31: specifically designed for sterile environments with flanged adapter collar

- **Perfect combination of flush screwed assembly and smooth surface:**
This sight glass luminaire is designed for mounting on sight glass fittings in universal applications. It is ideal for use in combined sight and light ports (single-flange version) or arranged separately (two-flange version). The integrated fastening clamp enables convenient mounting on a Lumiglas sight glass wiper assembly SW 1.
- **Compact design; powerful light output:**
Glare-free illumination; suitable for use with circular sight glass fittings to DIN 28120 / DIN 28121 or similar, or with screw-type sight glass fittings in compliance with DIN 11851.
- **Application:**
Ideal for illuminating the interiors of vessels, tanks, silos, agitators and other, usually closed, containers and reactors as well as visual flow indicators in **non-explosive operational areas**. Suitable for use in food processing facilities. **Specifically designed for applications in sterile environments.**
- **Protection class:** Dust- and splash-water protected, IP 65 to DIN EN 60529 / DIN VDE 0470 Part 1
- **Operating conditions:**
Independent of the internal pressure/vacuum in the vessel. Under no circumstances should the Lumiglas luminaire be used on its own to close a vessel port or to replace the cover flange or the complete sight glass flange fitting. An appropriate sight glass fitting must be used at all times.
- **Maximum permitted ambient temperature at the cable entry gland:** 90°C
- **Very easy to install using special fastening system, ensuring convenience of use:**
The luminaire can either be attached to the cover flange of the circular sight glass fitting or the visual flow indicator using the hinged bracket, or fastened to the slotted nut on screw-type sight glass fittings.

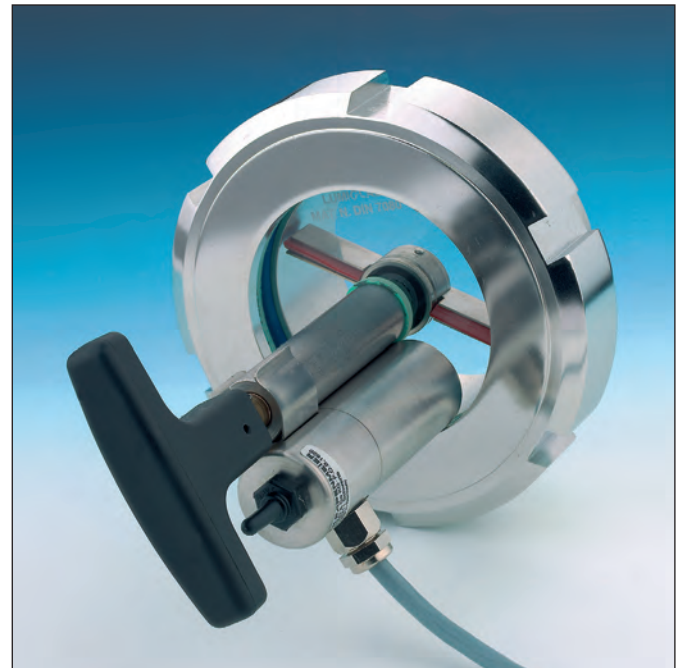
Lumiglas luminaire USL 01 and USL 31 fit the following nominal sizes:

- Circular sight glass fitting to DIN 28120: from DN 25
- Circular sight glass fitting to DIN 28121: from DN 40
- Visual flow indicators: from DN 25
- Screw-type sight glass fittings similar to DIN 11851: from DN 50

- **Voltage type:** AC / DC
- **Operating voltage:**
12 V... Halogen bulb, 5 W, without integrated pushbutton switch
24 V... Halogen bulb, 20 W, with integrated pushbutton switch
- **The Lumiglas luminaire is supplied with a factory-fitted connecting cable (3 m).**

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Data Sheet 06.11



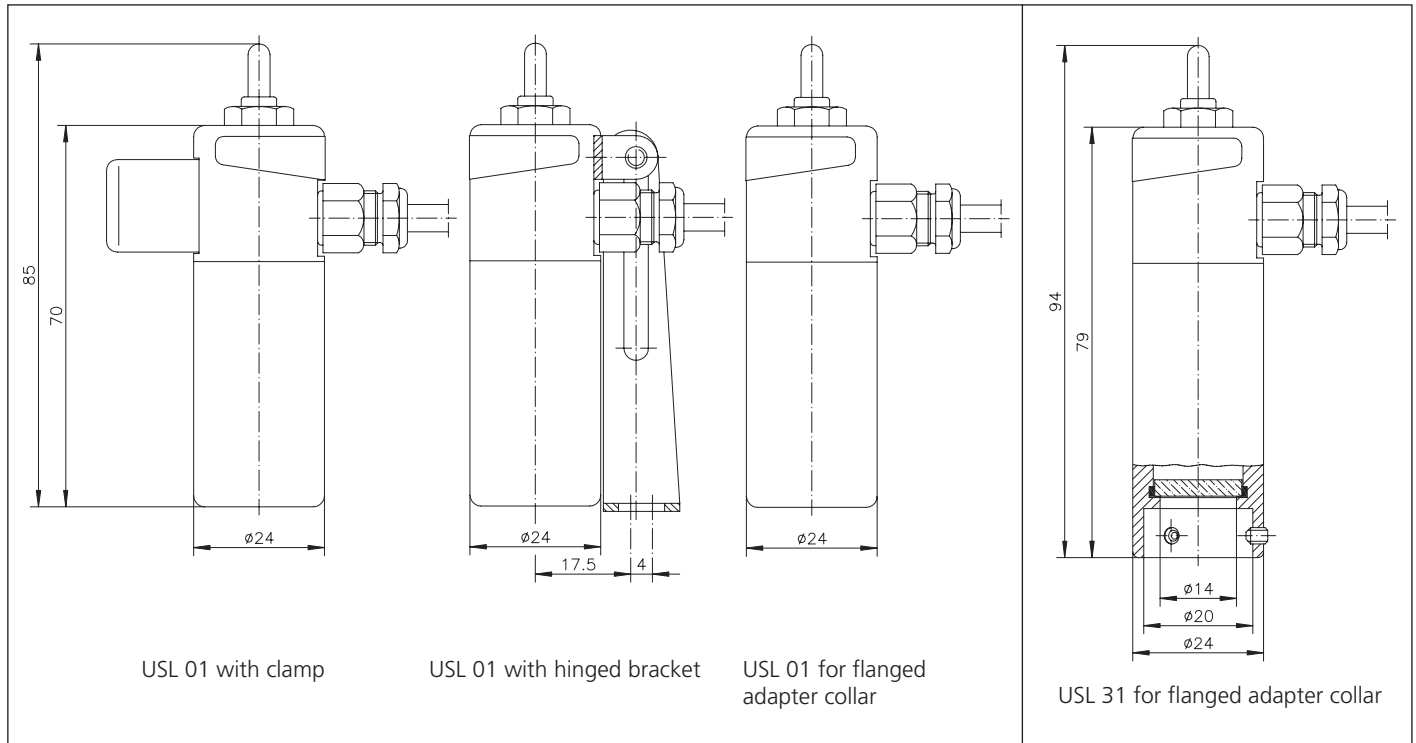
Mini-Lumiglas luminaire stainless steel USL 01, mounted on a screw-type sight glass fitting with Lumiglas sight glass wiper SW 1



Mini-Lumiglas luminaire USL 31, for BioControl applications

- **Transformers:**
Transformers for 12 V or 24 V secondary voltage are available on request.
- **Integrated pushbutton:**
20 W luminaires are always supplied with built-in pushbutton switch.

• Dimensions and electrical data for Lumiglas luminaires USL 01 and USL 31:



• Components and materials:

- Body and head of luminaire: Stainless steel 1.4404
- Fastening elements: Stainless steel 1.4301 (hinged bracket or flanged adapter collar for attachment to screw-type sight glass fitting)

- Connecting cable: 3 m (3 x 0.5 mm²)
- Weight: 0.150 kg

• Connecting data:

Lumiglas luminaires USL 01 and USL 31					replacement halogen lamps		
no.	variant	part no.	voltage V	push-button	voltage/wattage	socket	part no.
	USL 01 with clamp fastening						
1	(12 V) 5 W	3540.001.00	12 ≈	without	12 V/5 W	G4	3232.221.00
2	(24 V) 20 W	3540.002.00	24 ≈	with	24 V/20 W	G4	3232.206.00
	USL 01 with hinged mounting						
3	(12 V) 5 W	3540.003.00	12 ≈	without	12 V/5 W	G4	3232.221.00
4	(24 V) 20 W	3540.004.00	24 ≈	with	24 V/20 W	G4	3232.206.00
	USL 01 with flanged adapter collar						
5	(12 V) 5 W	3540.005.00	12 ≈	without	12 V/5 W	G4	3232.221.00
6	(24 V) 20 W	3540.006.00	24 ≈	with	24 V/20 W	G4	3232.206.00
	USL 31 with flanged adapter collar						
7	(12 V) 5 W	3540.007.00	12 ≈	without	12 V/5 W	G4	3232.221.00
8	(24 V) 20 W	3540.008.00	24 ≈	with	24 V/20 W	G4	3232.206.00

• Order data: e. g.

Mini-Lumiglas luminaire stainless steel USL 01, 24 V/20 W, with pushbutton, part No. 3540.002.00, clamp fastening

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