

Lumiglas Luminaire Stainless Steel USL 16 and USL 36

- **Perfect combination of a 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).

- **Application:**

The flush-assembled body and the integrated momentary-contact switch are optimal for applications in sterile environments, in the pharmaceutical and food processing industries; and also for illuminating bioreactors, laboratory mixers, filters and the interior of tanks, hoppers, silos, agitators, separators, pipelines and other – usually closed – containers in **non-explosive operational areas**.

- **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.

Lumiglas luminaire types USL 16 and USL 36 fit the following nominal sizes:

- a) Circular sight glass fitting to DIN 28120: from DN 40
- b) Circular sight glass fitting to DIN 28121: from DN 40
- c) Visual flow indicators: from DN 40
- d) Screw-type sight glass fittings similar to DIN 11851: from DN 50

- **Protection:**

Dust- and splash-proof, IP 65 to DIN EN 60529 / DIN VDE 0470 Part 1.

- **Operating conditions:**

Independent of the internal pressure/vacuum in the vessel. Lumiglas luminaires of this type are approved for use in ambient temperatures of up to 90°C at the cable entry gland.

- **Under no circumstances should the Lumiglas luminaire be used on its own to close a vessel port – an appropriate sight glass fitting must be used at all times.**

- **Electrical data:**

This Lumiglas luminaire has been works-fitted with a connecting cable (3 m).

- **Operating voltage:**

- | | |
|--------------------|---|
| 24 V | Halogen lamp, 20 W, with or without integrated momentary-contact switch |
| 24 V, 120 V, 230 V | Halogen lamp, 50 W or 100 W, only available with integrated momentary-contact switch |
| 230 V | Halogen lamp, 12 V/ 20 W, only available with integrated momentary-contact switch, 2-pin holder |

- **Transformers:**

Transformers for 12 V or 24 V secondary voltage can be supplied on request.

- **Momentary-contact switch:**

Luminaires fitted with lamps with 50 W or more should always be operated using the push-button and not in continuous ON mode! **Caution!** If your luminaire has been ordered / supplied without

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Data Sheet 06.16



Lumiglas luminaire USL 16

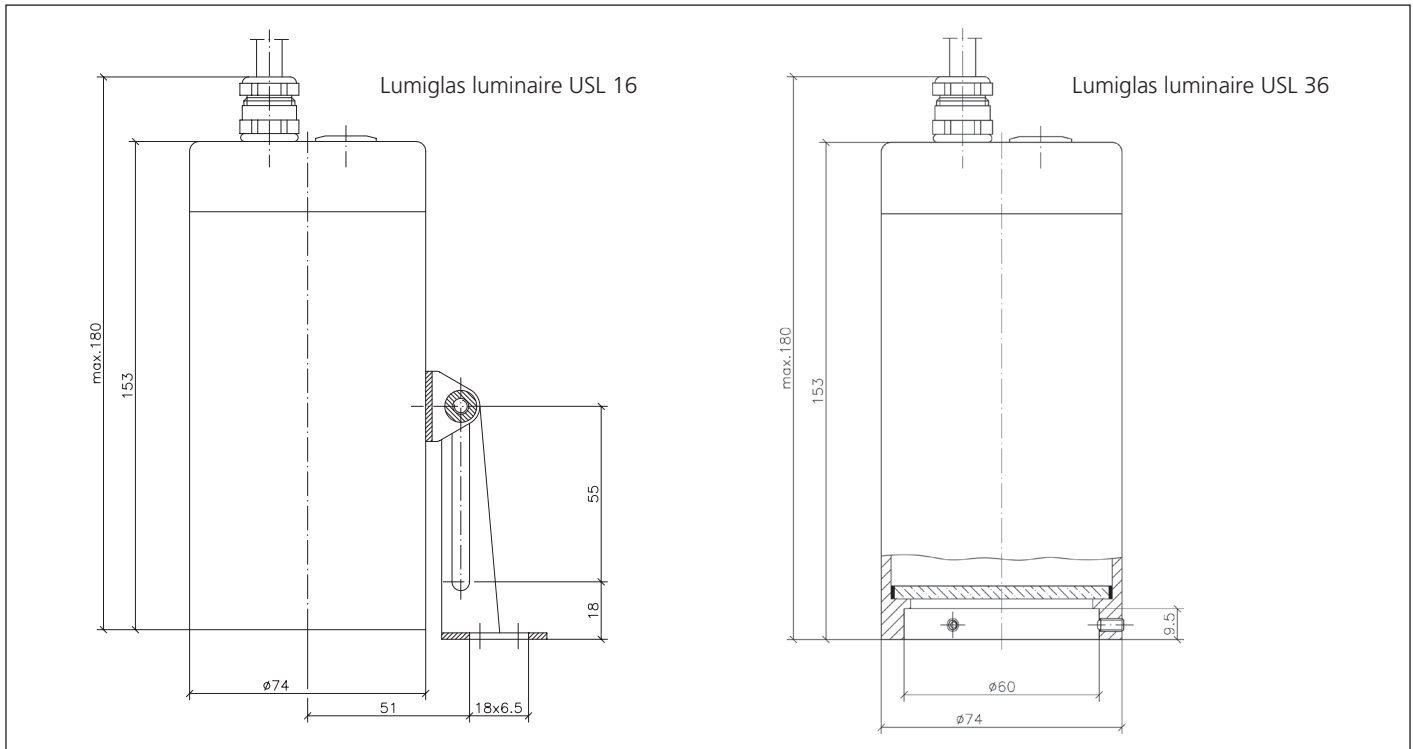


Lumiglas luminaire USL 16, actuation by momentary-contact switch

an integrated push-button, it is essential to have a momentary-contact switch or timer installed outside the luminaire in the power supply line!

The temperatures on the luminaire or on the glass lenses of the sight and light ports should under no circumstances exceed the values specified in the data sheet and in the installation and operating instructions.

• **Dimensions and electrical data for Lumiglas luminaires USL 16 and USL 36:**



• **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 DN 50/65)

- Connecting cable: 3 m (3 x 0.75 mm²)
- Weight: Without transformer 1.42 kg; with transformer 1.80 kg

• **Connecting data:**

Lumiglas luminaires USL 16 and USL 36							Halogen lamps		
No.	Variant	Voltage V	Push-button	Built-in transf.	Type USL 16 Part No.	Type USL 36 Part No.	Voltage/Wattage	Socket	Part No.
1	(24 V) 20 W	24 ≈	with	without	3541.703.00	3541.753.00	24 V/20 W	G4	3232.206.00
2	(24 V) 20 W	24 ≈	without	without	3541.704.00	3541.754.00	24 V/20 W	G4	3232.206.00
3	(230 V/12 V) 20 W	230 ~	with	with	3541.709.00	3541.759.00	12 V/20 W	G4	3232.237.00
4	(24 V) 50 W	24 ≈	with	without	3541.713.00	3541.763.00	24 V/50 W	GY6.35	3232.242.00
5	(120 V) 50 W	120 ≈	with	without	3541.715.00	3541.765.00	120 V/50 W	GY6.35	3232.265.00
6	(230 V) 50 W	230 ≈	with	without	3541.719.00	3541.769.00	230 V/50 W	GZ10	3232.261.00
7	(24 V) 100 W	24 ≈	with	without	3541.723.00	3541.773.00	24 V/100 W	GY6.35	3232.244.00
8	(120 V) 100 W	120 ≈	with	without	3541.725.00	3541.775.00	120 V/100 W	GY6.35	3232.266.00

• **Lumiglas luminaire USL 16/USL 36 are suitable for mounting...**

- on a bio-control sight glass fitting, size 40
- on a fused glass/metal sight glass for clamped attachment (Metaclamp), for clamp fittings acc. to DIN 32676/ISO 2852 with a fused glass/metal sight glass for aseptic screw-type sight glass fittings, DIN 11864
- with a fused glass/metal sight glass for NA-Connect® fittings
- with a fused glass/metal sight glass for VARIVENT® inline housings

• **Order data:** e. g.

Lumiglas Luminaire stainless steel USL 16, 24 V/20 W, with push-button, Part No. 3541.703.00

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