Lumiglas

Lumistar luminaires stainless steel USL 13 and USL 33 and (1)-listed types

USL 13: for general applications, mounted with hinged bracket USL 33: special variant for sterile environments with adapter collar for fitting over flanges, etc.

• For mounting on sight glass fittings:

This sight glass luminaire is designed for universal applications. It is ideal for use in combined sight and light ports (single-flange version) or for two separate ports (2-flange version).

• Compact design, powerful light output:

Glare-free illumination; suitable for circular sight glass fittings to DIN 28120/DIN 28121 or similar, for screw-type sight glass fittings in compliance with DIN 11851, and for METAGLAS[®] and BioControl fittings.

• Application in chemical, pharmaceutical, biogas and food processing industries:

It is ideal for illuminating bioreactors, laboratory mixers and filters as well as the interiors of tanks, agitators, separators, pipelines and other, usually closed, vessels in **non-explosive operating environments**.

• Protection class: Dust- and waterjet proof, IP 65 according to EN 60 529 / DIN VDE 0470, Part 1

• Operating conditions:

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

- Max. admissible ambient temperature at the cable entry gland with halogen version: 90°C; with LED version: 40°C.
- Very easy to install using special mountings, ensuring convenience of use:

USL 13: The luminaire is attached to the cover flange of the circular sight glass fitting or the visual flow indicator with a hinged bracket, or fastened to the grooved nut on screw-type sight glass fittings.

USL 33: The luminaire is mounted over an adapter collar.

Caution: Do not look into light - Danger of impaired eyesight!

Lumistar luminaire USL 13 and USL 33 fit the following sizes:

- a) Circular sight glass fitting acc. to DIN 28120: from DN 25
- b) Circular sight glass fitting acc. to DIN 28121: from DN 40
- c) Visual flow indicators: from DN 25
- d) Screw-type sight glass fittings in compliance with DIN 11851: from DN 50

Voltage type: AC/DC

Operating voltage: 12 V, 24 V, 120 V, 230 V **Wattage:** up to 50 W, depending on operating voltage

• Transformers:

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

• Push-button:

50-watt luminaires should only be operated by push-button (not in continuous mode). Should an integrated push-button not



Lumistar luminaire USL 13 with hinged bracket mounting



Lumistar luminaire USL 33

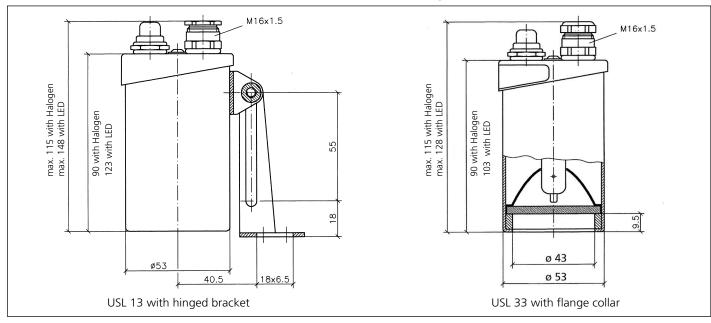
be included in the order/scope of supply, it is essential for an external momentary-contact push-button or a timer to be installed in the power supply line, outside the luminaire! Under no circumstances should the maximum temperatures specified for the luminaire be exceeded.

• Mounting parts for USL 13:

The luminaire mounting (hinged bracket) is included in the scope of supply. The flange collar for mounting on screw-type sight glass fittings of DN 50/65 and greater should be ordered separately.

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• Dimensions and electrical data for Lumistar luminaires USL 13 and USL 33 and 🕕-listed types:



• Components and materials:

 Luminaire body and cover: Stainless steel 1.4404
Hinged bracket and flange collar for attachment to screwtype sight glass fitting DN 50/65): Stainless steel 1.4301 - Connecting cable: 3 m (3 x 0.75 mm²) works fitted - Weight: 0.58 kg

type sight glass fitting DN 50/65): Stainless steel 1.4301 • Connection data: Type **USL 13-UL USL 33-UL** Nominal Push-Trans-**USL 13 USL 33** Socket USL 13/33 button former Part. No. Part. No. Part. No. Item Voltage V Part. No. (12 V) 20 W without 3540.206.00 3540.341.00 12 *~* with GY6.35 1 2 (12 V) 20 W 12 *≃* without without GY6.35 3540.207.00 3540.342.00 _ _ (24 V) 20 W without G4 3540.208.00 3540.223.00 3540.441.00 3540.443.00 3 $24 \simeq$ with 4 (24 V) 20 W 24 *~* without without G4 3540.209.00 3540.224.00 3540.442.00 3540.444.00 3540.212.00 5 (120 V) 20 W 120 *~* with without GY6.35 3540.210.00 6 (120 V) 20 W 120 *~* without without GY6.35 3540.211.00 3540.21300 _ _ 7 _ 3540.593.00 3540.595.00 (120 V) 20 W 120 *~* with without BA15d _ 3540.594.00 3540.596.00 8 (120 V) 20 W without without BA15d 120 *≃* _ 9 (230 V) 20 W without G9 3540.277.00 230 *~* with 10 (12 V) 50 W $12 \simeq$ with without GY6.35 3540.215.00 3540.216.00 11 (24 V) 50 W $24 \simeq$ with without GY6.35 3540.217.00 3540.218.00 3540.975.00 3540.977.00 12 (120 V) 50 W without BA15d 3540.685.00 3540.687.00 120 *~* with 3540.221.00 13 (120 V) 50 W with without GY6.35 3540.219.00 120 *~* _ _ 14 (120 V) 50 W 120 *~* without without GY6.35 3540.220.00 3540.222.00 _ _ LED Versions 15 (24 V) 2 W 24 *~* with Wandler GU4 3541.414.00 _ _ _ 16 (24 V) 2 W $24 \simeq$ without Wandler GU4 3541.415.00 3541.417.00 _ _ Further versions on request.

Accessories (for USL 13 only):

Item	Luminaire mounting	Part No.
1	Flange collar DN 50, stainless steel (no hinged mounting bracket required)	1356.000004
2	Flange collar DN 65, stainless steel (no hinged mounting bracket required)	1356.030.00

• Order data: e. g. Lumistar luminaire USL 13, 24 V/20 W, with push-button, part no. 3540.208.00

All dimensions in mm unless stated otherwise. Subject to change without prior notice. 10.15