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EQUIPEMENTS INDUSTRIELS

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USL 13/33 LED projector
Installation on observation windows

This luminaire is engineered for versatile applications. It is appropriate for integrated vision and lighting systems (single flange version) or for independent installations (double flange version).

Key Features

Compact design and robust illumination: Glare-free lighting, appropriate for circular portholes in accordance with DIN 28120/DIN 28121, screw-in SIGHT GLASS per DIN 11851, and METAGLAS® and BioControl mounting. Dustproof and water jet-resistant (IP 65 in accordance with EN 60 529 / DIN VDE 0470, Part 1).

Applications:

Chemical, pharmaceutical, biogas, and food industries. Appropriate for bioreactors, laboratory mixers, filters, tanks, agitators, separators, pipelines, and other enclosed vessels in non-explosive settings.
Caution: Avoid direct exposure to the light – Risk of ocular damage.

Operating Conditions:

Regardless of internal pressure or vacuum within the tank, it should never be utilized to seal a tank port in lieu of a complete mounting flange.

Maximum ambient temperature at the stuffing box inlet: 40°C.

Fixation and installation

- USL 13-LED: Installation on the flange of a circular sight glass or a visual flow indicator utilizing an articulated bracket or a grooved nut for screw-in sight glass.
- USL 33-LED: Installation using a collar adapter.

Size Compatibility

- Circular SIGHT GLASS DIN 28120: starting from DN 25
- Circular sight glass DIN 28121: starting from DN 40
- Visual flow indicators: starting from DN 25
- Screw-in Sight glass DIN 11851: starting from DN 50

Electrical and optical information

- Power supply voltage: 12 V / 24 V AC/DC
- Color temperature: 4000 K
- Luminous flux: 180 lumens
- Reflected beam angle: 36 degrees

USL13

USL33

Accessories and power supply unit
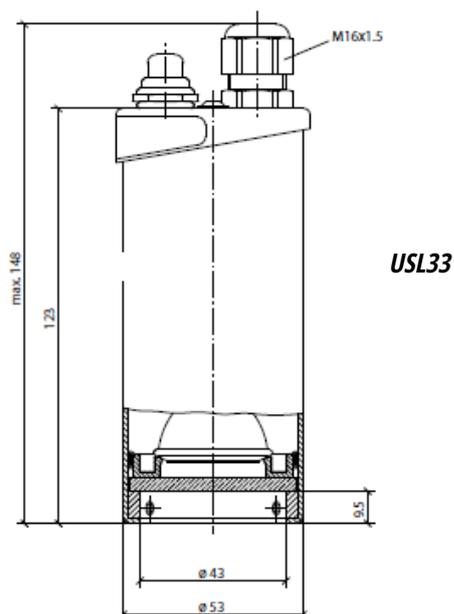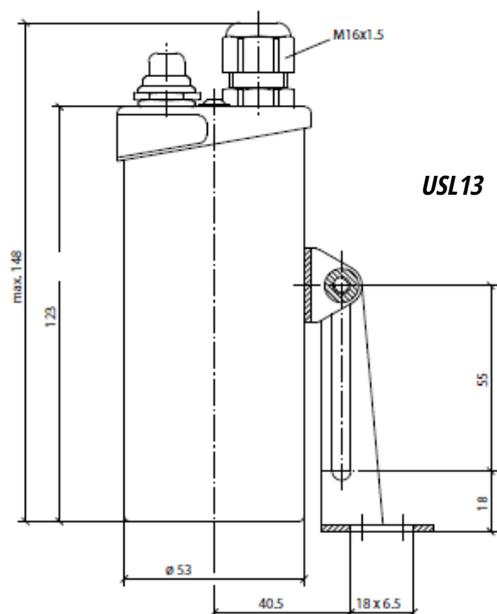- Transformers: 230 V / 24 V AC power supply can be provided upon request.

Accessories and mounting components for USL 13-LED
- Luminaire mounting bracket (articulated bracket): Supplied as part of the standard package.
- Mounting collar for screw-on sight glass (DIN 11851, DN 50/65 and larger): To be ordered separately.

Model Compatibility
The USL 13-LED and USL 33-LED luminaires are compatible with a range of sight glass configurations and visual flow indicators.

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USL13

USL33

Components and Materials:

- Luminaire housing and cover: Stainless steel 1.4404
- Articulated bracket and securing collar (for installation on screw-in porthole DN 50/65): Stainless steel 1.4301
- Connection cable: 3 m (3 x 0.75 mm²) pre-installed, additional lengths available upon request.
- Weight: 0.58 kg

Accessories (applicable solely for USL 13-LED):

1. DN 50 stainless steel collar, Ø 62 mm (articulated bracket unnecessary)
2. DN 65 stainless steel collar, Ø 65 mm (articulated bracket unnecessary)

Type USL 13-LED	Type USL 33-LED	Voltage	Watts	Press button	LED
Yes	Yes	(24V)	3.5 in	With	12 V 2.5 W
Yes	Yes	(24V)	3.5 in	Without	12 V 2.5 W
Yes	Yes	(24V)	3.5 in	With a switch	12 V 2.5 W
Yes	/	(12V)	2.5 W	Without	12 V 2.5 W
/	Yes	(12V)	2.5 W	With	12 V 2.5 W

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