Lumiglas® Stainless Steel Luminaire, Series USL 13 & USL 33

ISO 9001

DATA SHEET 02-0140 01/06

For use with sight glass fittings

This super-compact sight port luminaire is applicable for combination view/sight port (single port version) or separate light and sight port (dual-port version) with sight glass styles as follows:

• Circular weld-on sight glass series DIN 28120 starting at DN 25
• Circular sight glass series ANSI Bolt-On starting at 2"
• Visual Flow Indicators starting at size 1/2"
• Circular weld-neck series MV starting at DN 50
• Sanitary clamp connection series MetaClamp® starting at 1"

Application:

Optimum for the illumination of bio-reactors, laboratory mixers, filters, boilers, tanks, agitators, separators, pipes and other sealed vessels in locations that are not potentially explosive.

Industries include pharmaceutical, biotech, food and chemical.

Protection:

Dust and waterjet tight to IP 65 per EN 60 529/ DIN VDE 0470, Part 1 and NEMA Types 4 & 4X.

Operating conditions:

Independent of the pressure/vacuum inside the vessel; Maximum allowable ambient temperature at the cable gland is 194°F (90°C).

Under no circumstances must the Lumiglas lamp be used for sealing purposes in a vessel port in lieu of a sight port.

Electrical information:

The Lumiglas lamp comes equipped with a 3 meter connecting cable.

Operating Voltage:

Without built-in push-button:

| 12 V, 24 V, 120 V | Halogen incandescent lamp, 20W 2-pin socket G4 |

With built-in push-button:

| 12 V, 24 V, 120 V | Halogen incandescent lamp 50W 2-pin socket GY4 6.35 |

Transformers:

Transformers for 12 or 24 V secondary voltage available upon request.

Built-in momentary push-button on/off switch:

Momentary switches or timers are required for 50-Watt luminaires.

Remote momentary push-button on/off switch:

Ideal when the light cannot be activate from the sight glass location. Incorporated into an IP65 abd NEMA 4, 4X enclosure. Please specify cable length.

Internal Timer:

Can be activated by a built-in or remote switch. Allows hands free operation without expensive wiring.

External Timer:

Mounted in a convenient location by the user, this IP65 & NEMA 4, 4X device allows hands free operation and longer bulb life.

Mounting bracket:

The mounting bracket for the lamp (pivoting hinge) is included. Adapter flange for mounting series MV weld-neck type sight port can be ordered separately.

Sanitary clamp connection:

This light is available with a 1" through 4" sanitary clamp connection utilizing MetaClamp® technology. Specify a USL-33 light.
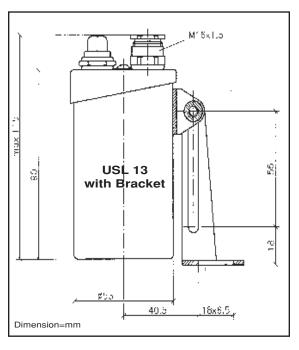

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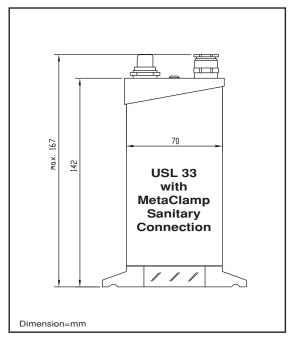
Stainless steel Lumiglas luminaire series USL 13

Stainless steel Lumiglas luminaire series USL 13 with hinged bracket mounted onto a circular sight glass fitting series DIN 28120

Dimensions for Lumiglas® Luminaire Stainless Steel Series USL13 & USL 33

USL 13
with Bracket

M18x1.5

max. 131

80

55

40.5   18x6.5

Dimension=mm

Parts, Construction and Materials

- Body and Cover: 316 S.S.
- Fastenings: 304 S.S. (Hinged bracket or Adapter Flange)
- Power Cable: 3 meters
- Weight: .58 kg

max. 167

142

70

USL 33
with
MetaClamp
Sanitary
Connection

Dimension=mm

Connection Data

	S.S. Lumiglas Luminaire USL 13 & USL 33					Replacement Parts		
ITEM	Voltage/ Wattage Options	Push Button	USL 13 Part No.	USL 33 Part No.	SUPPLY Voltage	Halogen Lamp		
						Socket	Type	Part No.
1	(12 V) 20 W	Yes	1300-A1CIANON	3300-A1CINNON	12	GY6.35	12 V/20 W	BLB-L20-GYN
2	(12 V) 20 W	–	1300-A1CNANON	3300-A1CNNNON	12	GY6.35	12 V/20 W	BLB-L20-GYN
3	(24 V) 20 W	Yes	1300-B2CIANON	3300-B2CINNON	24	G4	24 V/20 W	BLB-H20-G4N
4	(24 V) 20 W	–	1300-B2CNANON	3300-B2CNNNON	24	G4	24 V/ 20 W	BLB-H20-G4N
5	(120 V) 20 W	Yes	1300-B3CIANON	3300-B3CINNON		BA15D	120 V/20 W	BLB-N20-BA15D
6	(120 V) 20 W	–	1300-B3CNANON	3300-B3CNNNON	120	BA15D	120 V/20 W	BLB-N20-BA15D
7	(12 V) 50 W	Yes	1300-A1FIANON	3300-A1FINNON	12	GY6.35	12 V/50 W	BLB-L50-GYN
8	(12 V) 50 W	–	1300-A1FNANON	3300-A1FNNNON	12	GY6.35	12 V/50 W	BLB-L50-GYN
9	(24 V) 50 W	Yes	1300-B2FIANON	3300-B2FINNON	24	GY6.35	24 V/50 W	BLB-H50-GYN
10	(24 V) 50 W	–	1300-B2FNANON	3300-B2FNNNON	24	GY6.35	24 V/50 W	BLB-H50-GYN
11	(120 V) 50 W	Yes	1300-B3FIANON	3300-B3FINNON	120	BA15D	120 V/50 W	BLB-N50-BA15D
12	(120 V) 50 W	–	1300-B3FNANON	3300-B3FNNNON	120	BA15D	120 V/50 W	BLB-N50-BA15D

Note: USL 13 & 33 lights are not furnished with built-in transformers

Luminaire Mounting

- Hinged Bracket   Part No. 0527.008.00 (included)
- Adapter Flange Series MV   Part No. 1356.027.00 (separate order)
- 1", 1-1/2" Sanitary Connection   Part No. METACLAMP 1S33 (separate order)
- 2" Sanitary Connection   Part No. METACLAMP 2S33 (separate order)
- 3" Sanitary Connection   Part No. METACLAMP 3S33 (separate order)
- 4" Sanitary Connection   Part No. METACLAMP 4S33 (separate order)

Application Examples:

Installed on a MetaClamp® Sanitary Clamp Connection size 2".

Installed on a Series MV using Adapter Flange.