# Lumiglas Luminaire Series USL 07
- for use with sightglass fittings -

### Application:
This compact, powerful luminaire can be used for integral light/sight port (single flange version) or separate light and sight ports (dual flange version) to illuminate the internals of visual flow indicators, pipelines, laboratory mixers and other vessels and reactors which are normally closed. This model is intended for use in all Non Hazardous Areas. The unit is suitable for food processing. The luminaire must never be inserted into a vessel wall as a sealing element, i.e. without appropriate sightglass disc and fitting.

### Sightglass Styles:
This luminaire is designed to give glare free illumination in combination with sightglass styles as follows:
-    bolted circular flanges Model DIN 28120, DN50 and larger
-    circular screwed flanges Series MV, DN 100 and larger
-    visual flow indicators (tubular or flat glass), 3" and larger
-    sanitary clamp connection, 3" and larger

### Protection:
Dust and waterjet proof to IP 65, according to DIN EN 60529/DIN VDE 0470, Part 1 and NEMA 4.

### Ambient Condition Operating Range:
This unit is suitable for ambient temperatures of 80°C at the cable gland. It is independent of internal vessel pressure or vacuum.  When ambient temperature exceeds 40°C, consult factory when ordering. Temperature resistant cable is necessary.

### Power supply:
The unit can be fitted with various halogen lamps, and thus is suited for AC or DC voltage.
-    without built-in transformer
     supply 24 V; halogen lamp 50 W  or 100 W
     supply 230 V; halogen lamp 50 W or 100 W
     supply 120 V; halogen lamp 35 W, 50W or 100 W
-    with built-in transformer
     supply 230 V; halogen lamp 12V/20 W

### Lamp sockets:
see table on following page

### Transformers:
Transformers with 12V or 24 V secondary voltage are optionally available

### Additional Information:
-    DN 50 to DN 125 for light ports only
     DN 125 to DN 200 for single flange light/sight ports
-    special claw spanner: for opening/tightening the lens ring
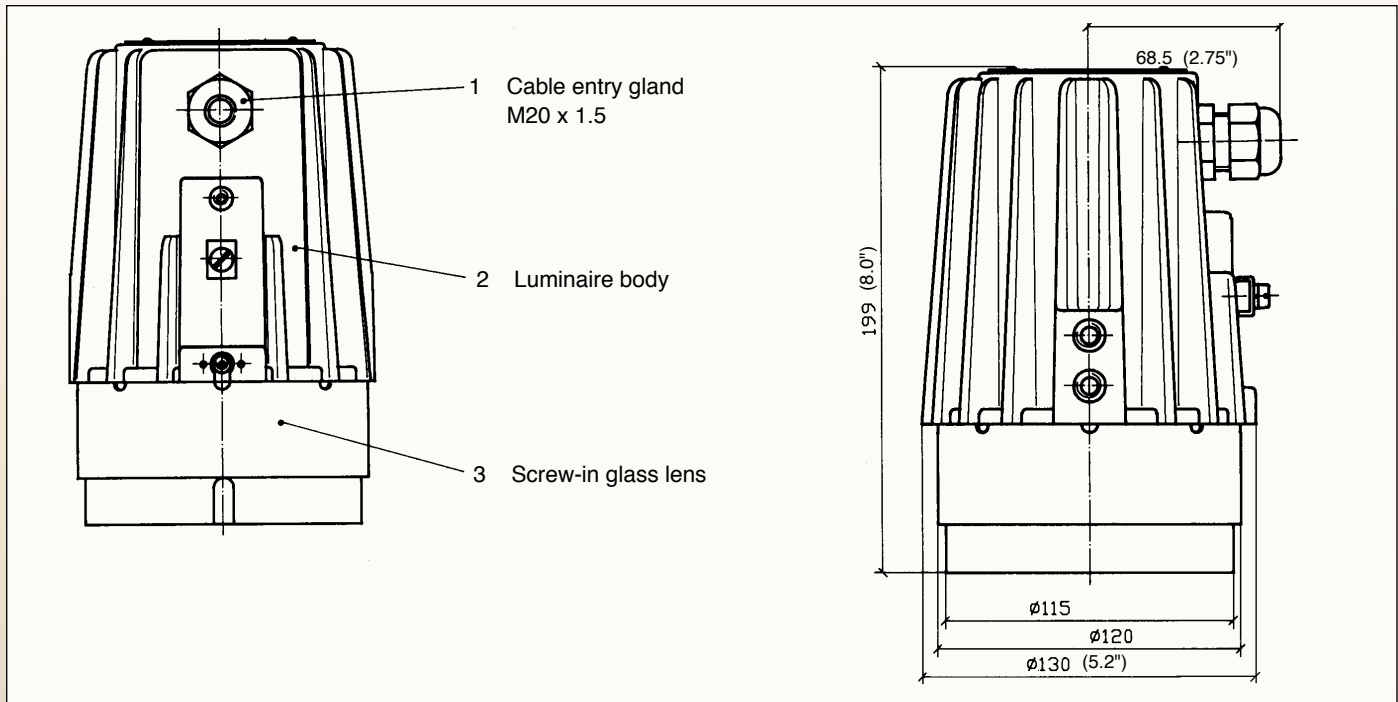-    installed automatic delay switch Lumiglas Timer, 5 minutes of operation time



Lumiglas USL 07 with fastenings



Lumiglas USL 07 installed on a circular sightglass DIN 28120

# Dimensions and Connection Data for Lumiglas Luminaire type USL 07



1 Cable entry gland M20 x 1.5

2 Luminaire body

3 Screw-in glass lens

Dimensions: 68.5 (2.75"), 199 (8.0"), ø115, ø120, ø130 (5.2")

## Parts, Construction and Materials:

- Luminaire body: Corrosion resistant die cast aluminium, G-Al Si 10 Mg
- Light window: Unit of aluminium ring, glass, rubber ring seal
- Fastenings: See under "Spares", G-Al Si 10 Mg

**Weight:** 4.5 lb. (ex power supply cable), 6.5 lb. with built-in transformer

## Connecting Data:

| Pos. | Type USL-07 | Model Number | Supply Voltage | Integrated Transformer | Halogen Lamp | | |
|------|-------------|--------------|----------------|------------------------|--------|--------------|-------------|
| | | | | | Socket | Power Intake | Part Number |
| 1 | (24V) 50W | USL07-H50 | 24 ≃ | without | GY6.35 | 24 V / 50 W | BLB H50 GYN |
| 2 | (230V) 50W | USL07-E50 | 230 ≃ | without | E27 | 230 V / 50 W | BLB E50 E27 |
| 3 | (230/12V) 50W | USL07-ET50 | 230 ~ | with | GY6.35 | 12 V / 50 W | BLB L50 GYN |
| 4* | (120V/12V) 50W | USL07-N35 | 120 ~ | with | GY6.35 | 120 V / 50 W | BLB N35 E26S |
| 6* | (230V) 75W | USL07-N100 | 230 ≃ | without | E27 | 230 V / 75 W | BLB N100 E26F |
| 8 | (24V) 100W | USL07-H100 | 24 ≃ | without | GY6.35 | 24 V / 100 W | BLB H100 GYN |
| 9 | (230V) 100W | USL07-E100 | 230 ≃ | without | E27 | 230 V / 100 W | BLB E100 E27 |

* Use in ambient temperature environment less than 100°F

## Accessories:

| Item | Component | Part No. |
|------|-----------|----------|
| 1 | fixture for luminaire, straight, DN 50 to 100 | 0354.005.00 |
| 2 | fixture for luminaire, angled, DIN 125 to 200 | 0354.006.00 |
| 3 | Lumiglas timer module, integrated, for individually timed illumination, 5 min. | On request |
| 4 | Lumiglas timer, module, external, for individually timed illumination, Lumiglas Ex timer switch | On request |
| 5 | claw spanner for screw-in lens for opening the luminaire | 6805.002.00 |

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