

## Installation and Operating Instructions

### Lumistar luminaire USL 13-UL in stainless steel, UL-listed

#### • Important note:

Sight glass luminaires are specifically and solely designed for mounting on top or side of sight glass units. Never use a luminaire in place of cover flange or complete sight glass unit to provide a closure for an opening in a process vessel. Luminaires for use in potentially explosive environments must be mounted, installed and serviced by staff who have the relevant qualifications and have been properly trained for this type of work.

#### • Electrical data – general:

- Voltage, power and protection are shown on identity plate.
- **Caution:** Excessive voltage will shorten lamp life.

#### • Installation – mechanical:

The Lumistar luminaire USL 13-UL, with requisite securing bracket, fits the following nominal sizes of sight glass:

| Type of fitting                                 | from DN | Hinged bracket | Flanged adapter |
|---|---------|----------------|-----------------|
| Circular sight glass fitting<br>DIN 28120/28121 | 50      | +              | –               |
| Flow indicator                                  | 50      | +              | –               |
| Screwed sight glass fitting<br>DIN 11851        | 50/65   | –              | +               |
|   | 80      | +              | –               |
|   | 100     | +              | –               |
|   | 125     | +              | –               |

#### • Fastening with hinged bracket:

The hinged bracket serves to secure the luminaire to the cover flanged of a circular sight glass unit (and flow indicator) or the slotted cover nut of screwed sight glass similar to DIN 11851. The bracket is fixed using the M6 screw supplied, and a blind hole drilled and tapped on the bolt pitch circle of the cover flange face. Alternatively the bracket can be welded on.

#### • Fastening with flange adapter:

The adapter fits under the slotted cover nut (DIN 11851). Place suitable gasket between adapter and glass disc, tighten slotted cover nut; slide luminaire into adapter sleeve and tighten radially located grub screws. The adapter may have to be ordered separately if not included in original supply.

#### • Electrical connection:

- Connecting cable (3 m) comes ready connected to the luminaire via the cable entry gland.
- The unit is internally wired ready for operation.

#### • Lamp exchange:

- Switch off power to luminaire.
- Loosen both screws in luminaire back plate.
- Lift off back plate complete with attached lampsocket and defective lamp.
- Pull out defective lamp.
- Gripping new lamp with its protective material, insert carefully into 2 pin or Ba 15d socket and push in firmly.
- Refit back plate complete with new lamp in socket, checking location of cabling and tighten securing crews.
- Switch on power.

#### • CAUTION:

- Do not look into light – Danger of impaired eyesight!
- Check the body temperature before opening.
- Only use lamps of identical type and power!
- To reduce the risk of fire do not use a lamp identified for use in enclosed luminaires.

#### • Operating conditions – general:

- Independent of vessel internal pressure/vacuum.
- Max. permissible ambient temperature at cable entry gland 90°C.
- 50 W powered versions of the luminaires may only be used with push button switches!
- **Warning!** When the luminaire – whether fitted with existing or higher wattage lamp – is used in continuous ON mode, check the temperature of the luminaire, its lens glass and the light/sight glass fitting; these temperature values must not be allowed to exceed those stated in the relevant data sheet and/or separate sheet entitled "Installation and operating instructions for Lumiglas luminaires". If these values become critical, insert a momentary push button or time delay switch in the power supply to the luminaire to prevent overheating.

#### • Replacement parts and ordering information:

| Halogen filament lamp |               |             |              |
|-----------------------|---------------|-------------|--------------|
| Lamp Socket           | Voltage/Power | Part No.    | Manufacturer |
| GY 6.35               | 24 V/50 W     | 3232.242.00 | Osram        |
| Ba 15d                | 120 V/50 W    | 3232.275.00 | Hikari       |

| Component   | Part No.    |
|---|-------------|
| Luminaire fixing hinged bracket                             | 0527.008.00 |
| Luminaire fixing adapter DN65                               | 1356.007.00 |
| Push button   | 6412.016.00 |
| Dust cap for push button                                    | 2330.014.00 |
| Reflector for 24 V/50 W                                     | 5904.025.00 |
| Reflector for 120 V/50 W                                    | 5904.054.00 |
| Gasket 53.5 x 1.5 mm<br>80 Shore, Viton (backplate to body) | 0853.009.00 |
| Lamp socket Ba 15d  | 1202.013.00 |
| Lamp socket (UL) 2-pin G 6.35                               | 1202.025.00 |

#### • Installation instructions:

- „Instructions pertaining to a risk of fire or injury to persons’ and „Important safety instructions’ or the equivalent shall precede the list, and the statement „Save these instructions’ or the equivalent.
- Power unit and series please see table.

#### • Servicing:

- Keep luminaire clean and free of dust.
- Keep note of average lamp life.
- Use only original replacement parts.