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 activated from the sight glass location. Incorporated into an IP65 and 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.
**Dimensions for Lumiglas® Luminaire Stainless Steel Series USL13 & USL 33**

**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

**Connection Data**

<table>
<thead>
<tr>
<th>S.S. Lumiglas Luminaire USL 13 &amp; USL 33</th>
<th>Replacement Parts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ITEM</strong></td>
<td><strong>Voltage/Wattage Options</strong></td>
</tr>
<tr>
<td>1</td>
<td>(12 V) 20 W</td>
</tr>
<tr>
<td>5</td>
<td>(120 V) 20 W</td>
</tr>
<tr>
<td>6</td>
<td>(120 V) 20 W</td>
</tr>
<tr>
<td>7</td>
<td>(12 V) 50 W</td>
</tr>
<tr>
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<tr>
<td>9</td>
<td>(24 V) 50 W</td>
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<tr>
<td>11</td>
<td>(120 V) 50 W</td>
</tr>
<tr>
<td>12</td>
<td>(120 V) 50 W</td>
</tr>
</tbody>
</table>

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

**Luminaire Mounting**
- **Hinged Bracket**
- **Adapter Flange Series MV**
- **1”, 1-1/2” Sanitary Connection**
- **2” Sanitary Connection**
- **3” Sanitary Connection**
- **4” Sanitary Connection**

**Application Examples:**
- Installed on a Hinged Bracket Sanitary Clamp Connection size 2”.
- Installed on a Series MV using Adapter Flange.

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