

Lumistar Luminaire Lumiflex USL 08 LF-Ex Conforms to UL 1598 & 844 Listed Class I, Div 1 & 2, Groups C & D

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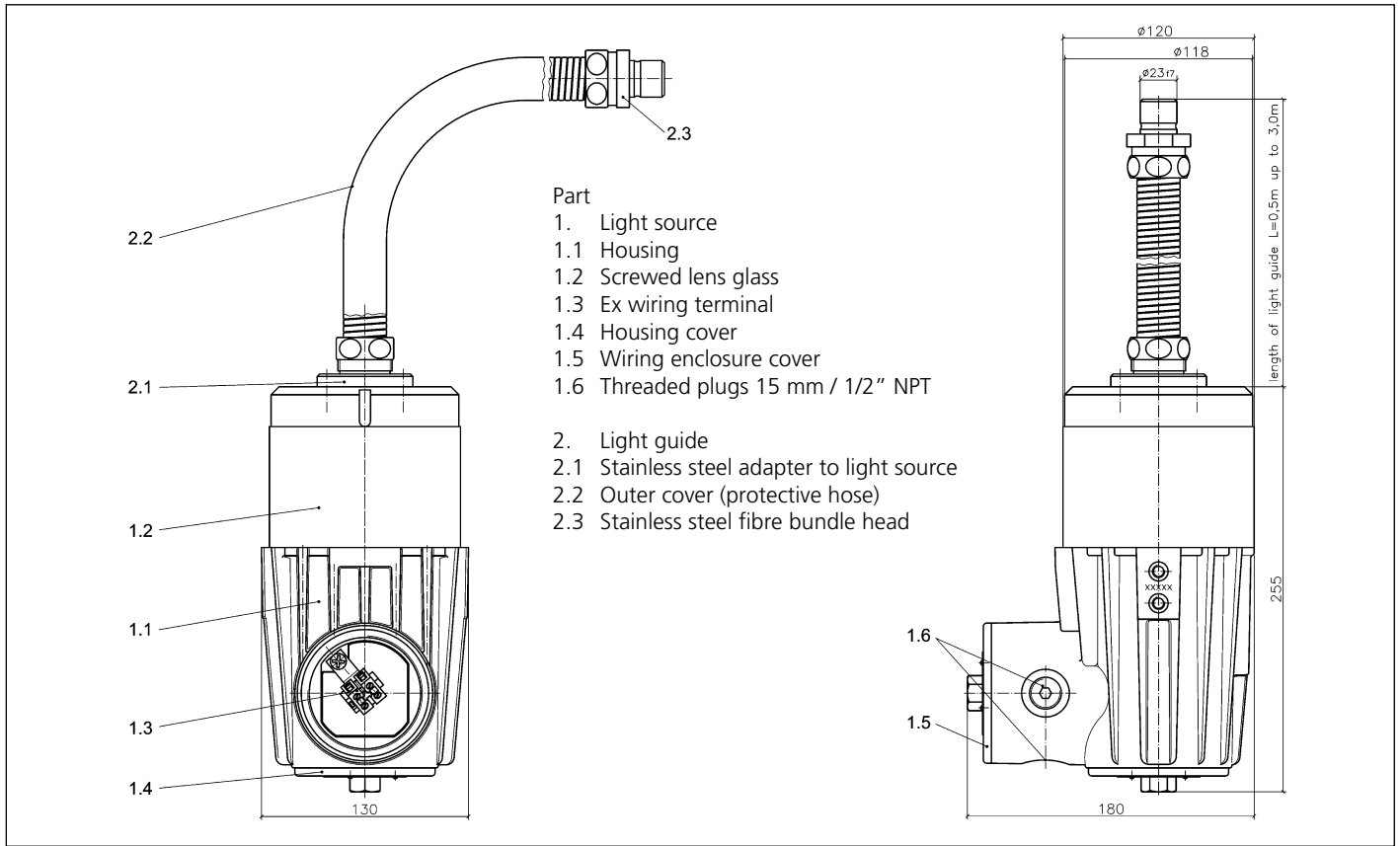
- **For mounting on sight glass fittings...**
or for localised illumination of process operations in reactors, vessels and pipelines and also where there is limited space, primarily in potentially hazardous Ex zones.
The unit is made up of a general-purpose sight glass luminaire that has been modified to provide a fibre optic system which is particularly suitable for use wherever processes in Class I, Divisions 1&2, Groups C&D need to be illuminated.
The unit can be installed for combined light and sight purposes as well as with VISULEX Ex camera technology.
- **This Lumistar luminaire has been specifically developed for light guide applications and is characterised by its:**
 - Extremely high light output at only 39 W
 - Low energy consumption
 - Servicing intervals: filament lamp life greater than 6,000 hours
- **Applications:**
For the illumination of process operations and/or the internals of vessels and plant in in potentially explosive environments, where the space available is limited.
The light source can also be mounted at a distance from a vibrating vessel to extend the bulb life.
- **Protection:**
Suitable for wet locations acc. to UL-1598 and CSA C22.2 No. 250.0-08, IP65/IP67 (similar to NEMA4+4x), Class I, Div 1 & 2, Groups C & D
- **Operating conditions:**
Independent of internal vessel pressure/vacuum.
Lumistar luminaire Lumiflex USL 08 LF-Ex is approved for use in ambient temperatures of up to 60°C.
- **Certified to:**
CSA C22.2 No. 250 & CSA C22.2 No. 137
- **Protection:**
 - Luminaires for use in potentially explosive environments (UL 844)
 - Electric luminaires for use in potentially explosive environments (CSA C22.2 No. 137-M1981)
- **Explosion Groups:** C & D
- **Temperature class:**
 - T5 complies with -20°C to +40°C
 - T4 complies with -20°C to +60°C
- **Electrical data and parts:**
In accordance with type examination certification
- **Power supply:** 120 V AC
- **Operating voltages:**
Includes integral transformer: primary voltage 120 V AC, secondary voltage lamp bulb (10 V/39 W)



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- **Simple electrical connection:**
 - Using integral terminal box; approx. 12.7 mm / 1/2" NPT connections (3 positions)
 - Connections meet requirements of the National Electric Code®

•Dimensions and components of Lumistar luminaire Lumiflex USL 08 LF-Ex:



•Description and materials:

- **Light generator:** non-corrosive cast aluminium alloy, GK-AlSi 12 Mg
- **Light aperture:** unit of aluminium ring, glass and O-ring
- **Fastening elements for light generator:** (2 pieces included in scope of supply) G-AlSi 10 Mg (part no. 0354.005.00)

- **Light guide** (please specify length!) including stainless steel fastening for light guide head (part no. 1947.005.00)
- **Weight:** 4.5 kg (excl. light guide)

•Connecting data for Lumistar luminaire Lumiflex USL 08 LF-Ex:

| USL 08 LF-Ex | part no. | power supply V | built-in transformer | halogen lamp | | temperature class at max. ambient temperature | |
|-------------------|-------------|----------------|----------------------|-----------------|-------------|-----------------------------------------------|--------|
| | | | | voltage wattage | part no. | G 40°C | G 60°C |
| 120 V (10 V) 39 W | 3540.336.00 | 120 ~ | with | 10 V/39 W | 3232.280.00 | T5 | T4 |

•Order data:

Example: Lumistar luminaire Lumiflex USL 08 LF-Ex, 120/10 V, 39 W, part no. 3540.336.00 with light guide length 1.5 m, part no. 3383.023.00 (see also accessories).

•Straightforward mechanical assembly with special fixture ensures practical applications:

- Caution: Avoid looking into the light source – risk of damage to the eyes!
- The light generator (1) is mounted at a suitable place on the reactor, apparatus, etc., using the fastening element provided. The light guide must be mounted free of tension or twisting with a bending radius of at least 170 mm and installed with the light guide head holder.
- The light guide head (2.3) is screwed to the place to be illuminated using the relevant stainless steel fastening unit.

•Accessories:

- Claw spanner for screw-in lens, for opening the light generator, part no. 6805.002.00
- Light guides are available in the following standard lengths (please specify when ordering):
 - 0.5 m part no. 3383.021.00
 - 1.0 m part no. 3383.022.00
 - 1.5 m part no. 3383.023.00
 - 2.0 m part no. 3383.024.00
 - 3.0 m part no. 3383.026.00
 Other lengths can be supplied as special versions.

•Warning:

Light should not be operated in hazardous location without fiber bundle securely attached.