

## Lumistar Luminaire USL08LED-Ex, UL-listed

**UL + cUL File Nr. E180031**

### • For mounting on sightglass fittings

Designed for Sightglass light fitting in Ex-version with integrated terminal compartment for the combination of sightglass and light glass (single port version) as well as for their separate arrangement (dual port version) with three connection possibilities

### • Compact design, high light output:

- Glare-free illumination; suitable for round sightglasses to DIN 28120/DIN 28121 or similar from DN 50 and larger
- Screwed sightglasses analogue DIN 11851 from DN 100 and larger
- Flow indicators from DN 50 and larger

### • High intensity light emission through optimally designed glass lens

### • Application:

For illumination of the interior of boilers, tanks, bunkers, silos, agitators and other usually closed containers and reactors as well as flow sight glasses in hazardous areas with UL requirements.

### • Suitable for food processing, chemical and pharmaceutical industry

### • Protection Level:

Dust and waterjet tight, IP65 acc. to EN60529/DIN VDE 0470, Part 1

### • Ignition protection level, Explosion Group:

- UL 844 listet for Class I Div. 1, Groups C and D, T6 50°C
- 'Wet conditions' Class I Div. 2, Groups A, B, C, D, T2A 50°C

### • Operating conditions:

- Independent of the vessel internal pressure/vacuum.
- Under no circumstances may the light fitting replace the cover flange or the complete sightglass assembly or be used directly to cover a container opening.
- Caution: Do not look into light – danger of impaired eyesight.

### • These Lumistar luminaires are approved for use in ambient temperatures up to 50°C.

### • Test certificate: **UL + cUL** listed Cat No. USL08LED-Ex: E180031

### • Electrical data and equipment:

According to UL regulations per table on last page

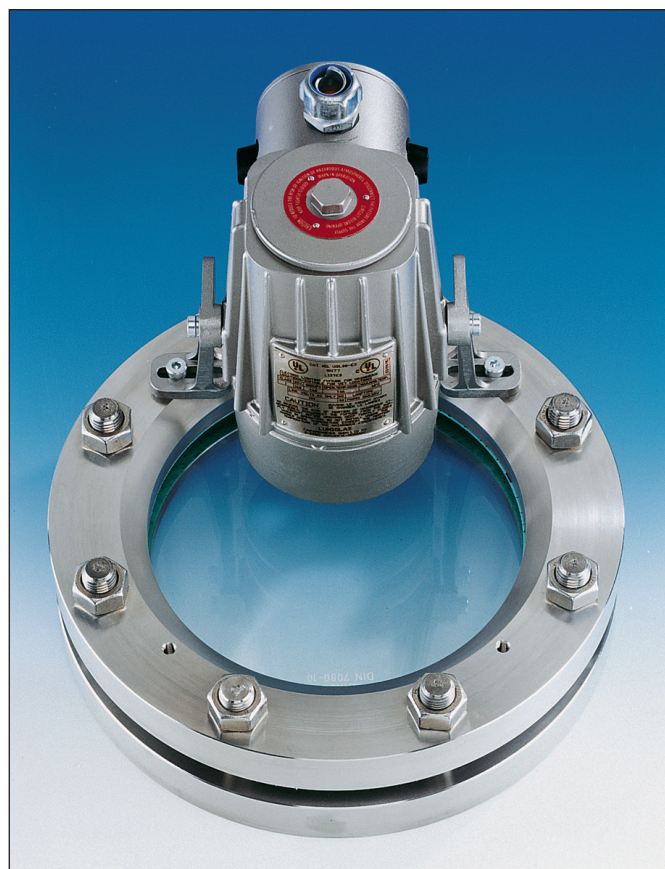
### • Type of voltage: AC Voltage ( AC )

### • Operating voltage:

120 - 240 V LED module COB LED, 20 W



Lumistar luminaire USL08LED-Ex with mounting parts



Application as combined sight and light glass on a sight-glass fitting according to DIN 28120

- **Beam angle:**

- Simple lens replacement
- 15°, 25° and 35° lenses available (COB LED version)

- **Easy installation with special mounting bracket:**

(to be specified separately)

The luminaire is mounted with the mounting parts on the cover flange of the circular sightglass or flow sightglass or on the slotted nut of screwed sightglass fittings

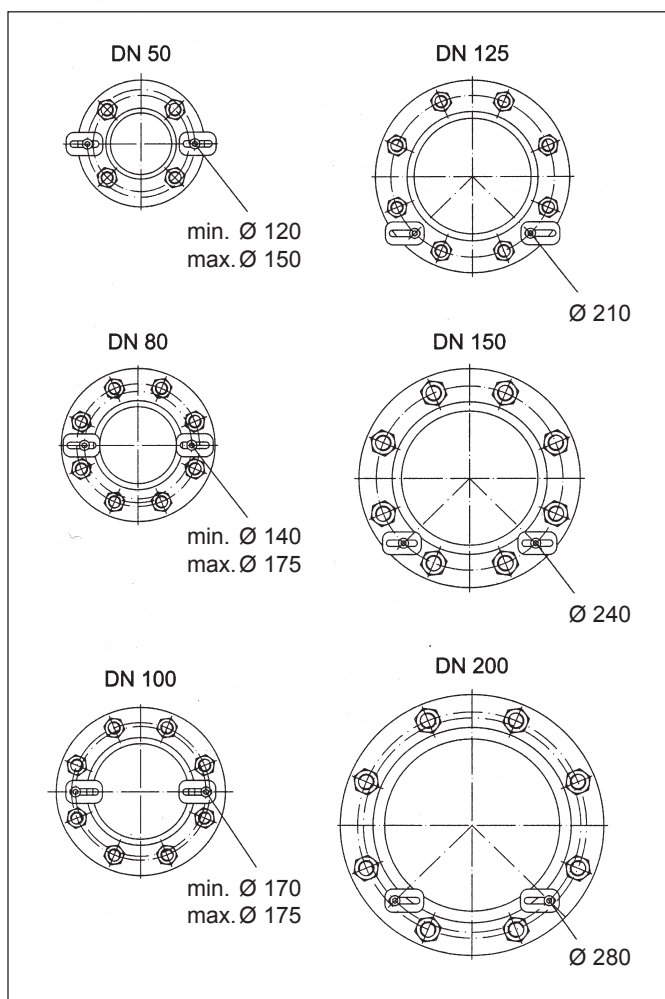
- Straight bracket for DN 50 to DN 100  
(as light port)
- Angle bracket for DN 125 to DN 200  
(for sight-light combination)

- **Simple electrical connection via junction box**

- The luminaire is wired internally and ready for operation. For cable entry from the outside, the terminal box has three openings with 1/2" NPT threads (right, left, top).
- The unused openings must be closed with two dummy plugs (included with luminaire).
- A cable gland is not part of the luminaire, as the connection is usually made with conduit.



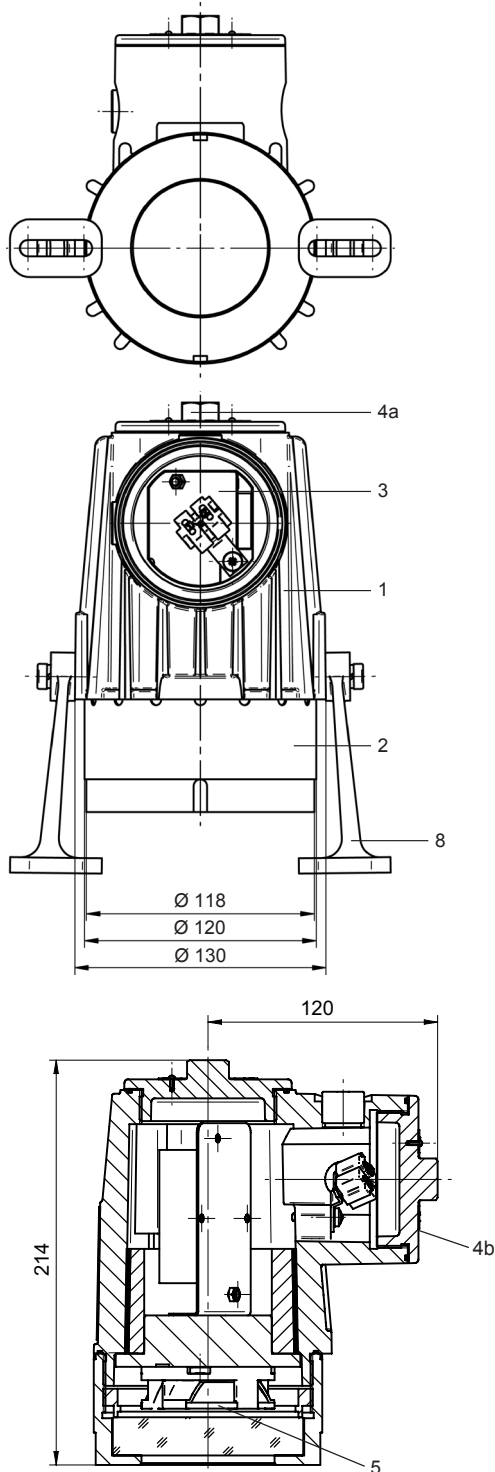
Lumistar luminaire USL08LED-Ex



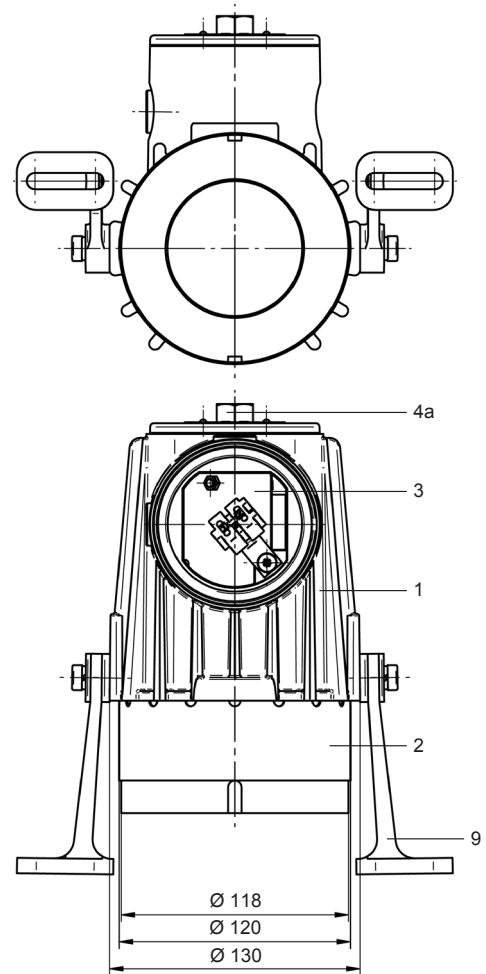
Hole pattern diameters for fastening screws

• Dimensions and components of Lumiglas luminaires USL08LED-Ex:

Luminaire mounting: straight version



Luminaire mounting: angle version



- 1 Luminaire body
- 2 Screwed lens ring
- 3 Terminal box with terminal block
- 4a Access cover for lamp exchange
- 4b Access cover for cable connection

- 5 Lens 15°, 25° or 35°
- 6 Luminaire mounting: straight version
- 7 Luminaire mounting: angle version

- **Parts, design, materials, weight:**

- Luminaire body made of corrosion-resistant cast aluminium alloy, GK-AlSi10Mg
- Light aperture consists of aluminium ring, glass and O-ring seal
- Mounting parts: (see accessories) G-AlSi10Mg
- Weight: 4 kg/8.9 lbs

- **Connection data and temperature data classification:**

| Pos. | Type USL08LED-Ex | Part no.    | Beam angle | Luminous flux | Colour temp. | Voltage   |
|------|------------------|-------------|------------|---------------|--------------|-----------|
| 1    | 120-240 V – 20 W | 3542.501.00 | 15°        | 2200 lm       | 6200         | 120-240 V |
| 2    | 120-240 V – 20 W | 3542.502.00 | 25°        | 2200 lm       | 6200         | 120-240 V |
| 3    | 120-240 V – 20 W | 3542.503.00 | 35°        | 2000 lm       | 6200         | 120-240 V |

- **Accessories:**

| Item                                                      | Part no.    |
|-----------------------------------------------------------|-------------|
| Luminaire mounting bracket, straight: for DN 50 to DN 100 | 0354.005.00 |
| Luminaire mounting bracket, angled: for DN 125 to DN 200  | 0354.006.00 |
| Special assembly spanner for screw-in lens                | 6805.002.00 |

- **Order data:** e.g.

- Lumistar Luminaire USL08LED-Ex, 120-240 V, 15°, part no. 3542.501.00
- Luminaire mounting bracket, straight, part no. 0354.005.00
- Special assembly spanner for screw-in lens, part no. 6805.002.00