

## Lumiglas Luminaires Lumistar-LED

Sizes: 80, 100, 125, 150, 175, 225

- **For use on circular sight glass fittings**

For combination of sight glass and light glass.

Suitable for circular sight glass fittings to DIN 28120 or similar, DN 50 to DN 200

- **Application:**

For illumination of internals of pressure vessels, tanks, bunkers, silos, stirred vessels and other normally enclosed containers in non explosion hazardous areas.

Suitable for use in food processings.

- **Protection:**

When correctly fitted, dust and water jet tight to IP 65 and EN 60 529/DIN VDE 0470 part 1.

- **Max. permissible ambient temperature measured at cable entry gland: 45°C**

- **Caution:** Do not look into light – danger of impaired eyesight!

- **Electrical data:**

Power supply: 24 V AC/DC, 120-230 V AC

Power: depending on type 5 W to 15 W LED

Colour temperature: see table

Luminous flux: see table

- **Reflected beam angle:**

Lumistar 80-LED to Lumistar 175-LED: 18° or 25°

Lumistar 225-LED: 11° or 26°

- **Transformers or power supplies** for 230 V AC/24 V are available on request.

- **Mechanical installation:**

- Before commencing installation please read information sheet 'Important guidelines for mounting sight glass fittings...'.  
- Caution: Do not look into light – danger of impaired eyesight!

- The luminaire is attached to the mating flange of the circular sight glass unit by two or four bolts. A ring gasket with bridge provides the seal between luminaire and sight glass disc.  
- The fixing bolts (stainless steel A2) are part of the supply.

- **Electrical connection:**

- Sizes 80 to 225 are supplied with a factory-installed 3 m connection cable. Other cable lengths are available on request.

- The electrical connection is made via the connection cable, which is factory-connected in the luminaire.

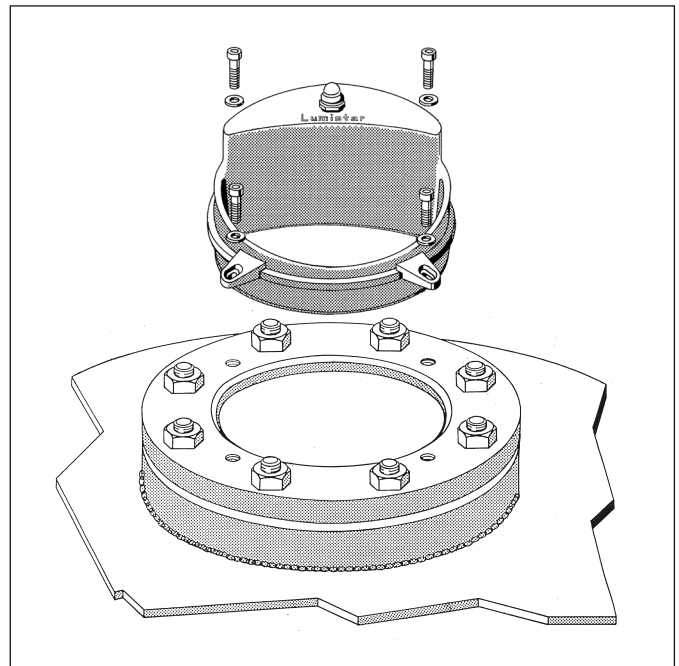
- The Lumiglas luminaire Lumistar-LED is designed for continuous operation. It can also be supplied with a push button.

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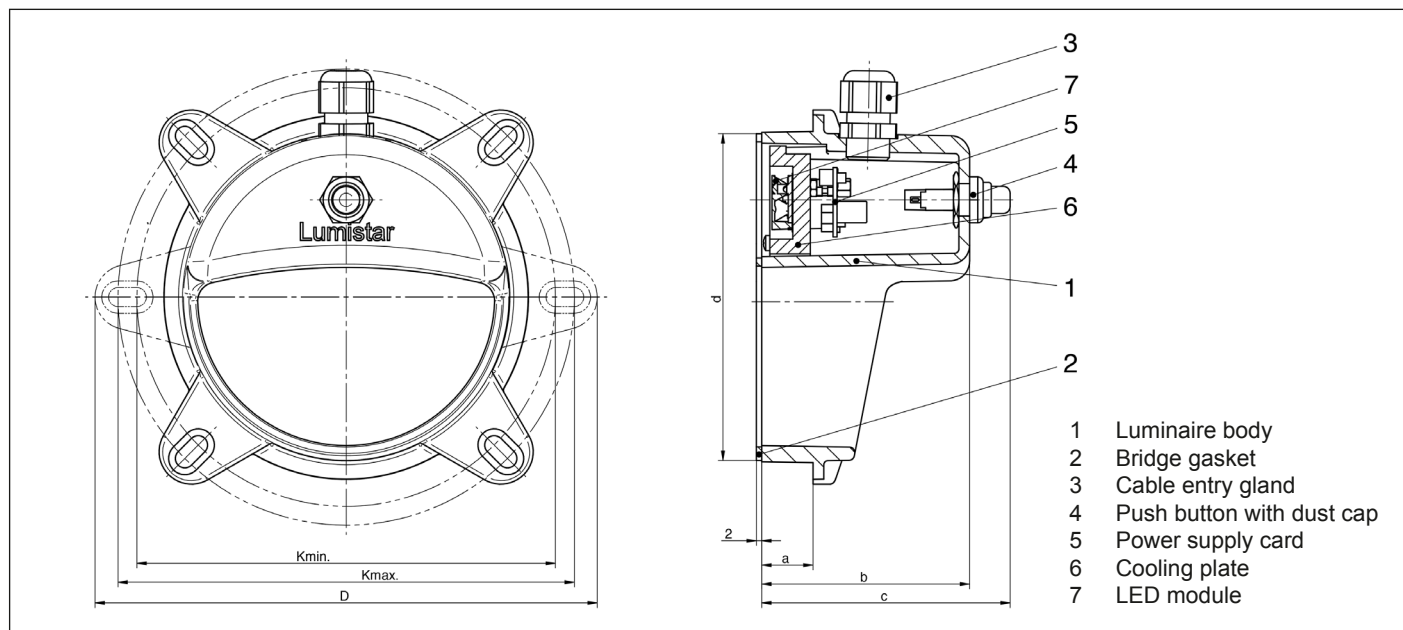


Lumiglas luminaires Lumistar-LED



Sight- and light glasses are combined:  
Lumiglas luminaire Lumistar-LED with fixing screws  
and sight glass fitting to DIN 28120 or similar,  
welded into a vessel wall

• **Dimensions and connecting data for Lumiglas luminaires Lumistar-LED:**



• **Parts, construction and materials:**

Luminaire body: Corrosion resistant die cast aluminium, paint finish: RAL 9007

| Lumistar-LED                                  |        | 1             | 2             | 3*            | 4*                           | 5*                           | 6*                           | 7*                           |
|-----------------------------------------------|--------|---------------|---------------|---------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Size (= viewing diameter)                     |        | 80            | 100           | 125           | 150                          | 175                          | 225                          | 225                          |
| Matches to fitting to<br>DIN 28120 or similar | DN     | 50            | 80            | 100           | 125                          | 150                          | 200                          | 200                          |
| Operating voltage                             | V      | 24            | 24            | 24            | 24                           | 24                           | 24                           | 230                          |
| Power                                         | W      | 5             | 6             | 6             | 6 / 10                       | 6 / 12                       | 15 / 15<br>1x7 / 2x4 LED     | 15 / 15<br>1x7 / 2x4 LED     |
| Bolt pitch circle Ø                           | K min. | 104           | 126           | 155           | 180                          | 208                          | 258                          | 258                          |
|                                               | K max. | 118           | 140           | 169           | 194                          | 222                          | 282                          | 282                          |
|                                               | D      | 135           | 157           | 186           | 211                          | 243                          | 303                          | 303                          |
|                                               | d      | 77            | 97            | 122           | 147                          | 172                          | 222                          | 222                          |
|                                               | a      | 13            | 17            | 19            | 22                           | 27                           | 32                           | 32                           |
|                                               | b      | 65            | 75            | 77            | 80                           | 85                           | 95                           | 95                           |
|                                               | c      | 80            | 90            | 92            | 95                           | 100                          | 110                          | 110                          |
| Fixing oval hole                              |        | 2 pcs. 14 x 7 | 2 pcs. 14 x 7 | 4 pcs. 14 x 7 | 4 pcs. 14 x 7                | 4 pcs. 16 x 9                | 4 pcs. 21 x 9                | 4 pcs. 21 x 9                |
| Bolts                                         |        | M 6 x 16      | M 6 x 16      | M 6 x 16      | M 6 x 16                     | M 8 x 16                     | M 8 x 16                     | M 8 x 16                     |
| Weight appx.                                  | kg     | 0.300         | 0.450         | 0.550         | 0.650                        | 0.800                        | 1.400                        | 1.400                        |
| Luminous flux                                 | lm     | 450           | 600           | 600           | 600/950                      | 600/1200                     | 800/1400                     | 800/1400                     |
| Colour temp.                                  | k      | 6500          | 6500          | 6500          | 6500                         | 6500                         | 5700                         | 5700                         |
| Part no. with push button                     |        | 3544.301.00   | 3544.321.00   | 3544.341.00   | 3544.367.00 /<br>3544.361.00 | 3544.387.00 /<br>3544.381.00 | 3544.407.00 /<br>3544.401.00 | 3544.410.00 /<br>3544.404.00 |
| Part no. without push button                  |        | 3544.302.00   | 3544.322.00   | 3544.342.00   | 3544.368.00 /<br>3544.362.00 | 3544.388.00 /<br>3544.382.00 | 3544.408.00 /<br>3544.402.00 | 3544.411.00 /<br>3544.405.00 |

\*Can be combined with Lumiglas sight glass wiper SW I.

• **Order data:** e. g. Lumiglas luminaire Lumistar 80-LED, part no. 3544.301.00, 24 V/5 W with push button

All dimensions in mm unless stated otherwise. Picture credits: ©F.H. Papenmeier GmbH & Co. KG. Subject to change without prior notice. 10.19