For mounting on sight glass fittings
This Ex-type sight glass luminaire is designed for universal applications in potentially explosive environments. It is ideal for use in combined sight and light-glass arrangements, either as a single flange version or with two separate flanged ports.

Compact yet powerful:
Dazzle-free illumination; for use with circular sight glass fittings to DIN 28120/DIN 28121 or similar, with screw-type sight glass fittings in compliance with DIN 11851, and in visual flow indicators.

Optimum screw-in lens design ensures maximum light efficiency

Application:
For illuminating the interior of tanks, hoppers, silos, agitators and other – normally closed – vessels as well as visual flow indicators in potentially explosive environments.
Gas: Zones 1 and 2; Dust: Zones 21 and 22. Suitable for use in food processing industries.

Protection:
IP 65 and IP 67 to DIN EN 60529

Operating conditions: Independent of the internal pressure/vacuum in vessel. On no account should a sight glass luminaire be used on its own to close a vessel port or to replace the cover flange or the sight glass/luminaire assembly.

Lumistar luminaire of this series are approved for use in ambient temperatures of up to 60°C, depending on the lamp bulb fitted.

Technical data Ex protection:
This luminaire meets the essential safety and health requirements by complying with the regulations for
a) Gas
EN 60079-0: 2012 General Requirements
EN 60079-1: 2007 Flame-proof Enclosure ‘d’
EN 60079-7: 2007 Increased Safety (relates to terminal box) Explosion group: IIC (including IIA and IIB) Temperature class: T1 to T4 (depending on wattage)
b) Dust
EN 60079-0: 2012 General Requirements
EN 60079-31: 2009 Protection by Enclosures ‘t’ Explosion group: IIIC (includes III A and III B) Temperature class: T130°/T195°C (depending on wattage)

EC type-examination certificate: BVS 08 ATEX E 138 II 2G Ex de IIC T3/T4 Gb
II 2D Ex tb IIIC T130/T195°C Db

Voltage type: Alternating/direct current, depending on lamp

Operating voltage:
without integrated transformer:
12 V... Halogen lamp 20 W, 35 W or 50 W
24 V... Halogen lamp 20 W or 50 W
230 V... Halogen lamp 50 W

with integrated transformer; PTC-protected
120 V... Halogen lamp 12 V/20 W
230 V... Halogen lamp 12 V/20 W
240 V... Halogen lamp 12 V/20 W

Straightforward electrical connection via integrated terminal box. Simple lamp replacement thanks to optimal screw ring design.

Lumistar luminaire ESL 26-Ex fits the following nominal sizes:
a) circular sight glass fittings to DIN 28120, DIN 28121 and visual flow indicators; mounting on the cover flange: from DN 50 up
b) screw-type sight glass fittings similar to DIN 11851; mounting on or below the nut:
- DN 65, 80, 100: on flanged adapter collar
- DN 80, 100, 125: on hinged bracket
- DN 80 und 100: either on flanged adapter collar or hinged bracket

Lumistar luminaire ESL 26-Ex, stainless steel
• Dimensions and electrical data for Lumistar luminaire ESL 26-Ex with integrated terminal box:

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.801.00
- Voltage: 12 V
- Built-in transformer: without
- Halogen lamp*: Voltage: 12 V/20 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.803.00
- Voltage: 24 V
- Built-in transformer: without
- Halogen lamp*: Voltage: 24 V/20 W, Socket: G4
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.810.00
- Voltage: 120 V/12 V
- Built-in transformer: with
- Halogen lamp*: Voltage: 12 V/20 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +60°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.811.00
- Voltage: 240 V/12 V
- Built-in transformer: with
- Halogen lamp*: Voltage: 12 V/20 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +60°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.816.00
- Voltage: 12 V
- Built-in transformer: without
- Halogen lamp*: Voltage: 12 V/35 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.826.00
- Voltage: 12 V
- Built-in transformer: without
- Halogen lamp*: Voltage: 12 V/50 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.831.00
- Voltage: 24 V
- Built-in transformer: without
- Halogen lamp*: Voltage: 24 V/50 W, Socket: GY6.35
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

- Type ESL 26-Ex: Voltage and Built-in transformer
- Part No.: 3540.834.00
- Voltage: 230 V/50 W
- Built-in transformer: without
- Halogen lamp*: Voltage: 230 V/50 W Hi-Spot, Socket: GZ10
- Ambient temperature range: -20°C ≤ T_a ≤ +40°C

• Connecting data: Temperature classification and electrical parameters (see also EC Type-Examination Certificate)

<table>
<thead>
<tr>
<th>No.</th>
<th>Type ESL 26-Ex</th>
<th>Part No.</th>
<th>Voltage</th>
<th>Built-in transformer</th>
<th>Halogen lamp*</th>
<th>Ambient temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(12 V) 20 W</td>
<td>3540.801.00</td>
<td>12 ~</td>
<td>without</td>
<td>12 V/20 W</td>
<td>2G T4, 2D T130°C, 2G T4, 2D T130°C</td>
</tr>
<tr>
<td>2</td>
<td>(24 V) 20 W</td>
<td>3540.803.00</td>
<td>24 ~</td>
<td>without</td>
<td>24 V/20 W</td>
<td>2G T4, 2D T130°C, 2G T4, 2D T130°C</td>
</tr>
<tr>
<td>3</td>
<td>(120 V/12 V) 20 W</td>
<td>3540.808.00</td>
<td>120 ~</td>
<td>with</td>
<td>GY6.35</td>
<td>2G T4, 2D T130°C, 2G T4, 2D T130°C</td>
</tr>
<tr>
<td>4</td>
<td>(230 V/12 V) 20 W</td>
<td>3540.810.00</td>
<td>230 ~</td>
<td>with</td>
<td>GY6.35</td>
<td>2G T4, 2D T130°C, 2G T4, 2D T130°C</td>
</tr>
<tr>
<td>5</td>
<td>(240 V/12 V) 20 W</td>
<td>3540.811.00</td>
<td>240 ~</td>
<td>with</td>
<td>GY6.35</td>
<td>2G T4, 2D T130°C, 2G T4, 2D T130°C</td>
</tr>
<tr>
<td>6</td>
<td>(12 V) 35 W</td>
<td>3540.816.00</td>
<td>12 ~</td>
<td>without</td>
<td>12 V/35 W</td>
<td>2G T4, 2D T130°C</td>
</tr>
<tr>
<td>7</td>
<td>(12 V) 50 W</td>
<td>3540.826.00</td>
<td>12 ~</td>
<td>without</td>
<td>12 V/50 W</td>
<td>2G T3, 2D T195°C</td>
</tr>
<tr>
<td>8</td>
<td>(24 V) 50 W</td>
<td>3540.831.00</td>
<td>24 ~</td>
<td>without</td>
<td>24 V/50 W</td>
<td>2G T3, 2D T195°C</td>
</tr>
<tr>
<td>9</td>
<td>(230 V) 50 W</td>
<td>3540.834.00</td>
<td>230 ~</td>
<td>without</td>
<td>230 V/50 W Hi-Spot, GZ10</td>
<td>2G T4, 2D T130°C</td>
</tr>
</tbody>
</table>

• Order data (*please specify if flood reflector is preferred):
  - Lumistar luminaire ESL 26-Ex 230 V/12 V 20 W, part no. 3540.810.00; with accessory: hinged bracket, part no. 0354.016.00

• Components and materials:
  - Body of luminaire: Stainless steel 1.4404 (316LF), polished
  - Fastening components: Stainless steel

• Accessories:
  - Part no.
  1 External protective conductor terminal
  2 Locking screw
  3 Safety tab
  4 Screw-in glass lens
  5 Internal protective conductor terminal
  6 Ex terminal block
  7 Cable entry gland M20 x 1.5

All dimensions in mm unless stated otherwise. Subject to change without prior notice. 09.15