The optoelectronic Senlux Besta level switches are used for the level control of liquids. They may be installed either vertically or horizontally.

Base model OPG04
Product overview shown below

Technical Data
- Operating pressure max. 40 bar optional also higher pressure
- Ambient temperature -30 to 70°C
- Liquid temperature -40 to 100°C
- Accuracy ± 0.5 mm
- Material housing steel, nickel-plated
- Prism material glass, fused in the steel body (without seal)
- min. distance sensor tip to any opposite wall > 10 mm
- Mounting direction any
- Process connections BSPP 1/2", other types on request

Electrical Data
- Supply voltage 12...32 VDC
- Supply current max. 40 mA
- Switch points 1
- Output PNP Transistor, reverse polarity protected close or open
- IP65
- Protection rating 1 LED
- Indication of active output cable PVC, PUR, 3 x 0.25 mm² or plug M8, other types on request
- Electrical connection PVC, PUR, 3 x 0.25 mm² or plug M8, other types on request

Operating Principle
The optoelectronic sensor contains an infrared LED and a light receiver.

Light from the LED is directed into a prism which forms the tip of the sensor. With no liquid present, light from the LED is reflected within the prism to the receiver.

When rising liquid immerses the prism, the light is refracted by the liquid, leaving little or no light reaching the receiver. Sensing this change, the receiver initiates a switching process.

Connection diagram

<table>
<thead>
<tr>
<th>Pin assignment M8</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>3</td>
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<tr>
<td>4</td>
</tr>
</tbody>
</table>

With reservation of technical modifications
Product overview / order table

**OPG04**

**Process connection**
- A  Connection thread BSPP1/2"
- X  Other types on request

**Electrical connection**
- 2P  Connection cable: 2 m PVC 3 x 0.25 mm², Standard
- 2U  Connection cable: 2 m PUR 3 x 0.25 mm², Standard
- M8  Plug M8
- X  Other types on request

**Switch function**
- S  Closer (in medium closed, 12 - 32 VDC)
- O  Opener (in medium open, 0 VDC)

**Sensitivity**
- A  Sensitivity not adjustable (please specify the medium)
- T  Sensitivity adjustable (with potentiometer)

Example: Process connection BSPP1/2", 2 m PVC cable, closer, sensitivity not adjustable, medium water: OPG04-A2PSA

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**Characteristics**
- Small and compact
- No moving parts
- Excellent price / performance ratio
- Easy to install
- Mounting direction: any
- High reliability
- Long service life
- Measuring accuracy ± 0.5 mm
- Electrical connection: cable connection or plug
- Optical switch condition check via the LED
- Output PNP
- Pressure 40 bar, optional also higher pressure
- Adjustable sensitivity for any application
- Glass fused in the steel body (without seal)

**Areas of application**
- The optoelectronic level switch OPG04 is used for monitoring the level of liquids in refrigeration applications.

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**Accessories: Circular plugs M8**

<table>
<thead>
<tr>
<th>Type</th>
<th>Order number</th>
<th>Design</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female plug M8 with 2 m PVC cable</td>
<td>K8PVC 2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Female plug M8 with 5 m PVC cable</td>
<td>K8PVC 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Female plug M8 with 2 m PUR cable</td>
<td>K8PUR 2</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Female plug M8 with 5 m PUR cable</td>
<td>K8PUR 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female plug M8, angle type with 2 m PVC cable</td>
<td>W8PVC 2</td>
<td></td>
<td></td>
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<tr>
<td>Female plug M8, angle type with 5 m PVC cable</td>
<td>W8PVC 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female plug M8, angle type with 2 m PUR cable</td>
<td>W8PUR 2</td>
<td></td>
<td></td>
</tr>
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<td>Female plug M8, angle type with 5 m PUR cable</td>
<td>W8PUR 5</td>
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With reservation of technical modifications

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