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

**Base model OPG02**
Product overview shown below

**Technical Data**
- Operating pressure: max. 25 bar
- Ambient temperature: -25 to 70°C
- Liquid temperature: -30 to 100°C; temporary up to max. 150°C
- Measuring accuracy: ± 0.5 mm
- Material housing: stainless steel 1.4571
- Material prism: quartz glass
- min. distance sensor tip to reflecting wall: > 10 mm
- Mounting direction: any
- Process connections: BSPP 1/2", other types on request
- Sensor length L: min. 65 mm max. 3000 mm

**Electrical Data**
- Supply voltage: 12...32 VDC
- Supply current max.: 40 mA
- Switch point number: 1
- Output: PNP Transistor, reverse polarity protected
- Switch function: close or open
- Protection: IP65
- Indication of active output: 1 LED
- Electrical connection: cable PVC, PUR 3 x 0.25 mm² or coupler plug or, plug M12, 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 out into the liquid, leaving little or no light reach the receiver. Sensing this change, the receiver actuates electronic switching within the unit to operate an external alarm or control circuit.

**Connection diagram**

<table>
<thead>
<tr>
<th>Pin assignment</th>
<th>Supply voltage +12...32 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Supply voltage +12...32 VDC</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>Output +12...32 VDC</td>
</tr>
</tbody>
</table>

**With reservation of the technical modifications**
Product overview / order table

OPG02  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
W  Coupler plug, DIN 43650
M12 Plug M12
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)

Sensor length L
Dimensions in mm (length from sealing face of process connection,
L min=65 mm, L max=3000 mm)

Example: Process connection BSPP1/2", 2 m PVC cable, closer, sensitivity not adjustable, length 500 mm: OPG02-A2PSA500

Characteristics
• 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
• Output PNP
• Close or Open
• Adjustable sensitivity for any application
  (e.g. foam detection)
• Sensor length: selectable from min. 65 mm to max. 3000 mm

Areas of application
• Plant construction
• Machine tools
• Chemicals and Pharmaceutics
• Hydraulics
• Machine construction
• Water treatment etc.

Accessories: Circular plugs M12

<table>
<thead>
<tr>
<th>Type</th>
<th>Order number</th>
<th>Design</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female plug M12 with</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 m PVC cable</td>
<td>K12PVC 2</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>5 m PVC cable</td>
<td>K12PVC 5</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>2 m PUR cable</td>
<td>K12PUR 2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>5 m PUR cable</td>
<td>K12PUR 5</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Female plug M12, angle type with</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 m PVC cable</td>
<td>W12PVC 2</td>
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<td></td>
</tr>
<tr>
<td>5 m PVC cable</td>
<td>W12PVC 5</td>
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<tr>
<td>2 m PUR cable</td>
<td>W12PUR 2</td>
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</tr>
<tr>
<td>5 m PUR cable</td>
<td>W12PUR 5</td>
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