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

**Base model OPG01**
Product overview shown below

**Technical Data**
- Operating pressure: max. 10 bar
- Ambient temperature: -25 to 70°C, -30 to 100°C;
- Liquid temperature: max. +150°C 15 during max. minutes
- Measuring accuracy: ± 0.5 mm
- Material housing: stainless steel 1.4305
- Material prism: quartz glass
- min. distance sensor tip to reflecting wall: > 10 mm
- Mounting direction: any
- Process connections: BSP3/8", M12x1 mm in 304, BSP 1/2" in Ti316, other types on request

**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
- Enclosure: IP65
- Indication of active output: 1 LED
- Electrical connection: cable 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 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**

```plaintext
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<tr>
<th>Pin</th>
<th>Description</th>
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</thead>
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<tr>
<td>1</td>
<td>Supply voltage +12...32 VDC</td>
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<tr>
<td>2</td>
<td>white</td>
</tr>
<tr>
<td>3</td>
<td>green</td>
</tr>
<tr>
<td>0</td>
<td>Supply voltage +12...32 VDC</td>
</tr>
<tr>
<td>4</td>
<td>Output +12...32 VDC</td>
</tr>
</tbody>
</table>
```

With reservation of the technical modifications LSD01EN / 2015.10
Product overview / order table

OPG01  Process connection
A  Connection thread BSP3/8"
B  Connection thread M12 x 1 mm, stainless steel 304
C  Fixing screw thread BSP1/2", stainless steel Ti316
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 BSP3/8", 2 m PVC cable, closer, sensitivity not adjustable, medium water: OPG01-A2PSA

Characteristics
- Compact construction
- 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
- Close or Open
- Adjustable sensitivity for any application

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

Accessories: Circular plugs M8

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

With reservation of the technical modifications

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