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

**Base model OPG03**
Product overview shown below

**Technical Data**
- Operating pressure: max. 25 bar
- Ambient temperature: -30 to 70°C
- Liquid temperature: -30 to 100°C; temporarily up to max. +150°C
- Accuracy: ± 0.5 mm
- Mounting direction: any
- Min. distance sensor tip to any reflecting surface: > 10 mm
- Prism material: quartz glass
- Process connections: BSPP 1/2", 1.4571, other types on request
- Sensor tube: ø 13 mm, 1.4571
- Sensor length L: min. 65 mm, max. 3000 mm

**Electrical Data**
- Supply voltage: 230 VAC
- Switch points: 1
- Output: 250 VAC / 6A
- Life cycles: >10⁷
- Function: change-over switch
- Protection rating: IP65
- Connection box: Aluminium 75 x 80 x 57 mm, 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**

```
OPG03
```

```
Relay
  W 1
  W 2
  W 3
```

230 VAC Supply voltage
Relay output change-over switch
250 VAC / 6A

With reservation of technical modifications

LSD03E/2015.10
### Product overview / order table

**OPG03**

**Process connection**
- A  Connection thread BSPP 1/2”
- X  other types on request

**Connection box**
- B  Aluminium case 75 x 80 x 57 mm, IP 65
- X  other types on request

**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 BSPP 1/2”, aluminium case, sensitivity not adjustable, length 500 mm: OPG03-ABA0500

### 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 box
- Relay output 250 VAC / 6A
- Change-over switch
- 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
- Chemical and Pharmaceutical
- Hydraulics
- Machine construction
- Water treatment, etc.

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With reservation of technical modifications

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