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 Liquid temperature -30 to 100°C;

max. +150°C 15 during

max. minutes ± 0.5 mm

Measuring accuracy ± 0.5 mm

Material housing stainless steel 1.4305

Material prism quartz glass

quartz glass > 10 mm

Mountig direction any

min. distance sensor tip to

Process connections BSP3/8", M12x1 mm in 304

BSP 1/2" in Ti316 other types on request

#### **Electrical Data**

reflecting wall

Supply voltage 12...32 VDC Supply current max. 40 mA Switch point number 1

Output PNP Transistor,

reverse polarity protected

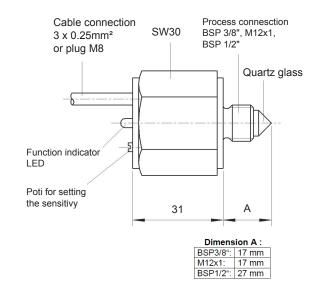
Switch function close or open

Enclosure IP65
Indication of active output 1 LED

Electrical connection cable PVC, PUR

3 x 0.25 mm<sup>2</sup> 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.

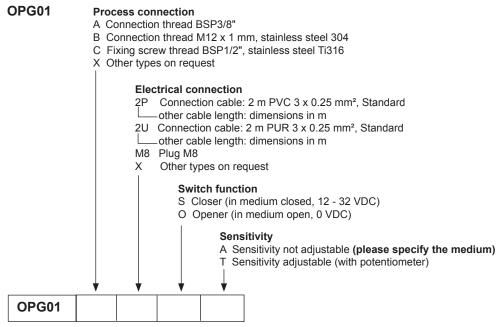
When rising liquid immerses the prism, the light is refracted out into the liquid, leaving little or no light reach the receiver. Sensing this change, the receiver actuates electronic switching within the unit to operate an external alarm or control circuit.

#### **Connection diagram**



Pin assignment						
1	Supply voltage +1232 VDC					
3	0					
4	Output +1232 VDC					

## Product overview / order table



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

Туре	Order number	Design	Col	Colour	
Female plug M8 with	2 m PVC cable	K8PVC 2		1	brown
	5 m PVC cable	K8PVC 5	111	3	blue
	2 m PUR cable	K8PUR 2	8 88	4	black
	5 m PUR cable	K8PUR 5			
Female plug M8, angle type with	2 m PVC cable	W8PVC 2			
	5 m PVC cable	W8PVC 5			
	2 m PUR cable	W8PUR 2	and the same of th		
	5 m PUR cable	W8PUR 5			

With reservation of the technical modifications

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