

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

#### Base model OPG05

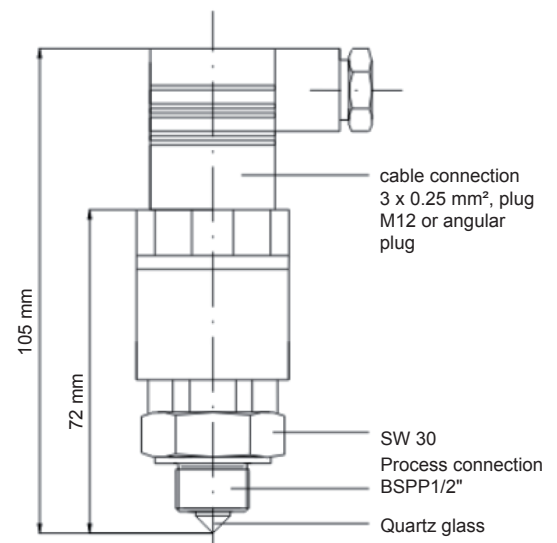
Product overview shown below

#### Technical Data

Operating pressure	max. 25 bar
Ambient temperature	-30 to +80°C
Liquid temperature	-40 to +170°C
Accuracy	± 0.5 mm
Material housing	stainless steel 1.4305
Prism material	quartz glass
min. distance sensor tip to reflecting wall	> 10 mm
Mounting direction	any
Process connections	BSPB 1/2", other types on request

#### Electrical Data

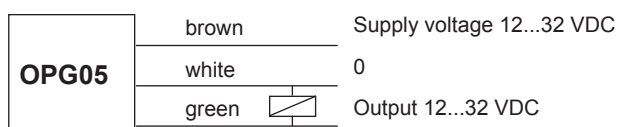
Supply voltage	12...32 VDC
Supply current max.	40 mA
Switch points	1
Output	PNP Transistor, reverse polarity protected
Function	close or open
Protection rating	IP65
Indication of active output	1 LED
Electrical connection	cable PVC, PUR, 3 x 0.25 mm <sup>2</sup> or plug M12, angular plug, other types 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



Pin assignment M12	
1	Supply voltage 12...32 VDC
3	0
4	Output 12...32 VDC

Angular Plug DIN 43650	
1	Supply voltage 12...32 VDC
2	0
3	Output 12...32 VDC

## Product overview / order table

### OPG05

#### Process connection

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

#### Electrical connection

- 2P Connection cable: 2 m PVC 3 x 0.25 mm<sup>2</sup>, Standard  
 other cable length: dimensions in m
- 2U Connection cable: 2 m PUR 3 x 0.25 mm<sup>2</sup>, Standard  
 other cable length: dimensions in m
- W Angular 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)

<b>OPG05</b>				
--------------	--	--	--	--

Example: Process connection BSPP1/2", 2 m PVC cable, closer, sensitivity not adjustable, medium water: OPG05-A2PSA

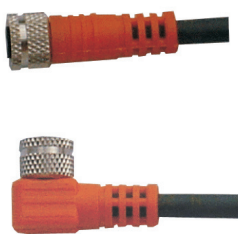
### Characteristics

- Small and compact
- Excellent price / performance ratio
- Liquid temperature up to +175°C
- Max. Pressure 25 bar
- Mounting direction: any
- High reliability
- Measuring accuracy ± 0.5 mm
- Electrical connection: cable connection, plug M12 or angular plug
- Output PNP
- Close or Open
- Adjustable sensitivity for any application

### Areas of application

- Plant construction
- Machine tools
- Chemicals and Pharmaceuticals
- Hydraulics
- Machine construction
- Water treatment etc.

### Accessories: Circular plugs M12

Type		Order number	Design	Colour	
Female plug M12 with	2 m PVC cable	K12PVC 2		1	brown
	5 m PVC cable	K12PVC 5		3	blue
	2 m PUR cable	K12PUR 2		4	black
	5 m PUR cable	K12PUR 5			
Female plug M12, angle type with	2 m PVC cable	W12PVC 2			
	5 m PVC cable	W12PVC 5			
	2 m PUR cable	W12PUR 2			
	5 m PUR cable	W12PUR 5			