

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

Base model OPG04

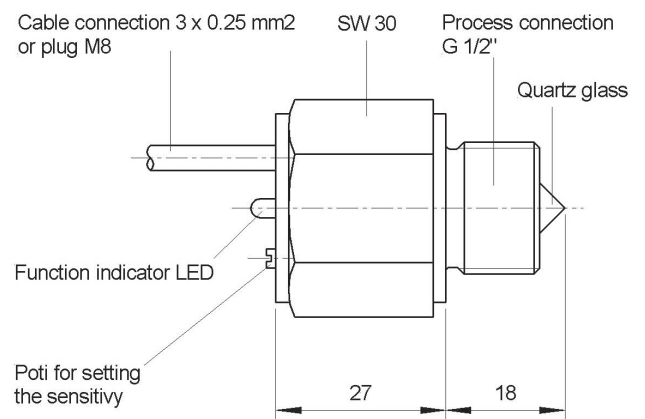
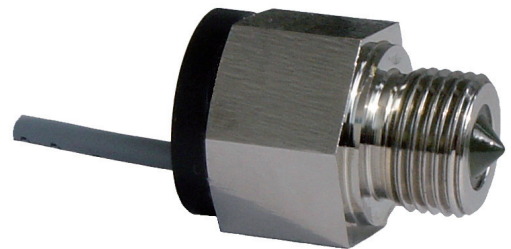
Product overview shown below

Technical Data

Operating pressure	max. 40 bar optional also higher pressure
Ambient temperature	-30 to 70°C
Liquid temperature	-40 to 100°C
Accuracy	± 0.5 mm
Material housing	steel, nickel-plated
Prism material	glass, fused in the steel body (without seal)
min. distance sensor tip to any opposite wall	> 10 mm
Mounting direction	any
Process connections	BSPP 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 ² or plug M8, other types on request



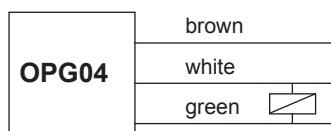
Operating Principle

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 by the liquid, leaving little or no light reaching the receiver. Sensing this change, the receiver initiates a switching process.

Connection diagram



Supply voltage 12...32 VDC
0
Output 12...32 VDC

Pin assignment M8	
1	Supply voltage 12...32 VDC
3	0
4	Output 12...32 VDC

Product overview / order table

OPG04

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
 _____ other cable length: dimensions in m
- 2U Connection cable: 2 m PUR 3 x 0.25 mm², Standard
 _____ other cable length: dimensions in m
- 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)

OPG04					
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Example: Process connection BSPP1/2", 2 m PVC cable, closer, sensitivity not adjustable, medium water: OPG04-A2PSA

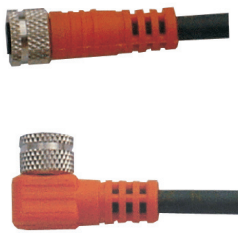
Characteristics

- Small and compact
- 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
- Pressure 40 bar, optional also higher pressure
- Adjustable sensitivity for any application
- Glass fused in the steel body (without seal)

Areas of application

- The optoelectronic level switch OPG04 is used for monitoring the level of liquids in refrigeration applications.

Accessories: Circular plugs M8

Type		Order number	Design	Colour	
Female plug M8 with	2 m PVC cable	K8PVC 2		1 brown	
	5 m PVC cable	K8PVC 5		3 blue	
	2 m PUR cable	K8PUR 2		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			
	5 m PUR cable	W8PUR 5			