

Level limit switch in stainless steel 1.4404 for hygiene applications with variable probe length

Base model OPG06

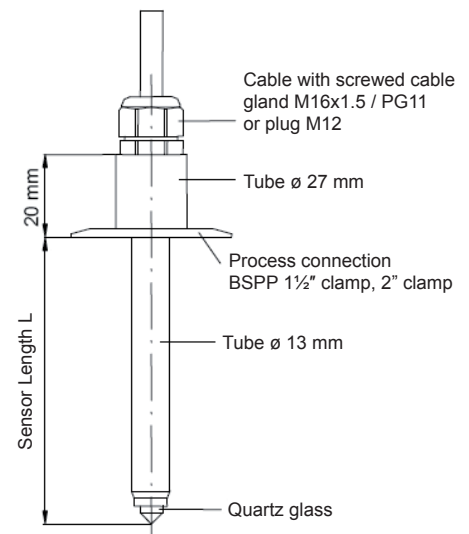
Product overview shown below

Technical Data

Operating pressure	max. 25 bar
Ambient temperature	-25 to 70°C
Operating temperature	-30 to 100°C temporary up to max. +125°C
Measuring accuracy	± 0.5 mm
Material housing	stainless steel 1.4404
Material prism	quartz glass
Mounting direction	any
Min. distance sensor tip to any opposite wall	> 10 mm
Process connections	BSPP 1½" clamp, 2" clamp, other types on request
Sensor tube	∅ 13 mm, 1.4404
Sensor length L	min. 65 mm max. 1000 mm

Electrical Data

Supply voltage	12...32 VDC
Supply current max.	40 mA
Switch point number	1
Output	Protective DC PNP (200 mA)
Switch function	closer or opener
Protection class	IP65
Electrical connection	cable PVC and PUR 3 x 0.25 mm ² or plug M12, other types on request



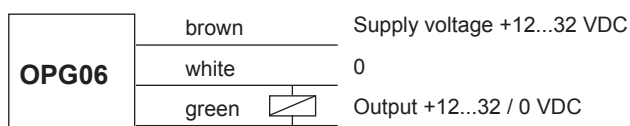
Operating Principle

The electro-optic 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 M12	
1	Supply voltage +12...32 VDC
3	0
4	Output +12...32 VDC

Product overview / order table

OPG06

Process connection

- A clamp 1½"
- B clamp 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
- 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)

Sensor length L

Dimensions in mm
(length from sealing face of process connection, L min.=65 mm, L max.=1000 mm)

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Example: Process connection clamp 2", 2 m PVC cable, closer, sensitivity not adjustable, Length 500 mm: OPG06-B2PSA0500

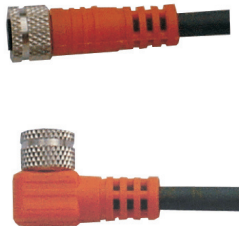
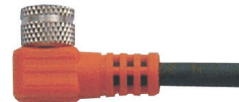
Characteristics

- No moving parts
- Wetted parts 1.4404
- Easy mounting
- Mounting direction: any
- High reliability
- High life expectancy
- Measuring accuracy ± 0.5 mm
- Electrical connection: cable connection, plug M12 or angular plug
- Output PNP
- Close or Open
- Adjustable sensitivity for any application
- Variable sensor length: min 65 mm, max. 1000 mm

Areas of application

- Food
- Pharmaceutical

Accessories: Circular plugs M12

Type		Order n°	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			
	5 m PUR cable	K12PUR 5			
Female plug M12, angle type with	2 m PVC cable	W12PVC 2		4	black
	5 m PVC cable	W12PVC 5			
	2 m PUR cable	W12PUR 2			
	5 m PUR cable	W12PUR 5			