

Limit Switch in stainless steel 1.4404/1.4571 for hygiene applications, high temperature version.

Base model OPG061

Product overview shown below

Technical Data

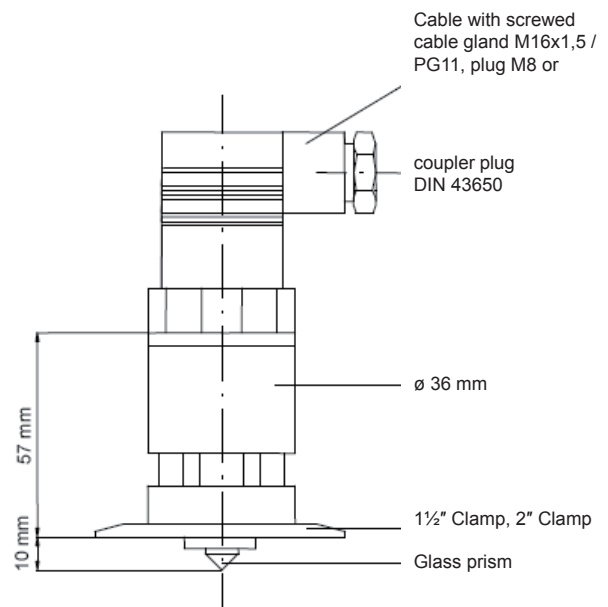
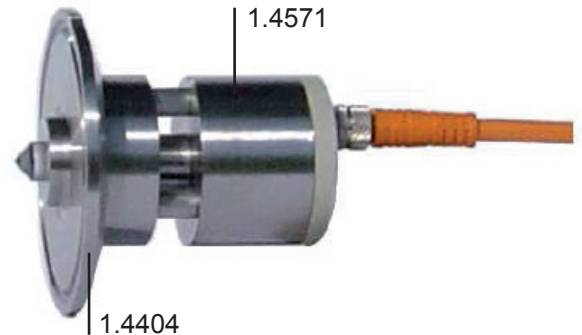
Operating pressure max. 25 bar
 Ambient temperature -30 to 80°C
 Operating temperature -30 to 175°C
 Material prism quartz glass
 Measuring accuracy ± 0.5 mm
 Min. distance sensor tip to any opposite wall > 10 mm

Mounting direction any
 Process connections 1½" Clamp, 1.4404
 2" Clamp, 1.4404
 other types on request

Material housing parts contacting the medium: in stainless steel 1.4404
 parts out of medium: 1.4571

Electrical Data

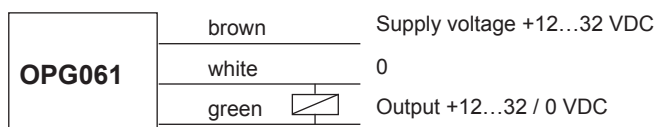
Supply voltage 12...32 V DC
 Supply current max. 40 mA
 Switch point number 1
 Switch function closer or opener
 Protective DC PNP (200 mA)
 Output
 Protection class IP65
 Electrical connection PVC or PUR cable
 3 x 0.25 mm², coupler plug or plug M8, other types on request



Operating Principle

The opto-electronic 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 M8	
1	Supply voltage +12...32 VDC
3	0
4	Output +12...32 / 0 VDC

Coupler plug DIN 43650	
1	Supply voltage +12...32 VDC
2	0
3	Output +12...32 / 0 VDC

Product overview / order table

OPG061

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
- M8 Plug M8
- W Coupler plug DIN 43650
- X Other types on request

Switch function

- S Closer (in medium closed, 12 – 32 V DC)
- O Opener (in medium opened, 0 V DC)

Sensitivity

- A Sensitivity not adjustable (**please specify the medium**)
- T Sensitivity adjustable (with poti)

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Example: Process connection clamp 2", 2 m PVC cable, closer, sensitivity not adjustable: OPG061-B2PSA

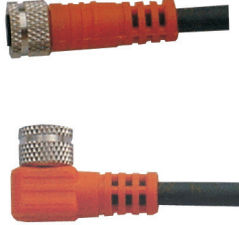
Characteristics

- No moving parts
- Operating temperature: +175°C
- Simple to install
- Mounting direction: any
- Parts contacted with the medium are made of 1.4404
- Long service life
- High reliability
- Measuring accuracy ± 0.5 mm
- Electrical connection: cable connection or plug
- Output PNP
- Closer or Opener
- Adjustable sensitivity for any application
(e.g. foam detection)

Areas of application

- Food industry
- Pharmaceuticals

Accessories: Circular plugs M8

Type		Order n°	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		
	5 m PUR cable	K8PUR 5		
Female plug M8, angle type with	2 m PVC cable	W8PVC 2		4 black
	5 m PVC cable	W8PVC 5		
	2 m PUR cable	W8PUR 2		
	5 m PUR cable	W8PUR 5		