**Opto Electronic Level Switch for detecting the level of liquid media**

Level limit switch in stainless steel 316L for hygiene applications with variable probe length

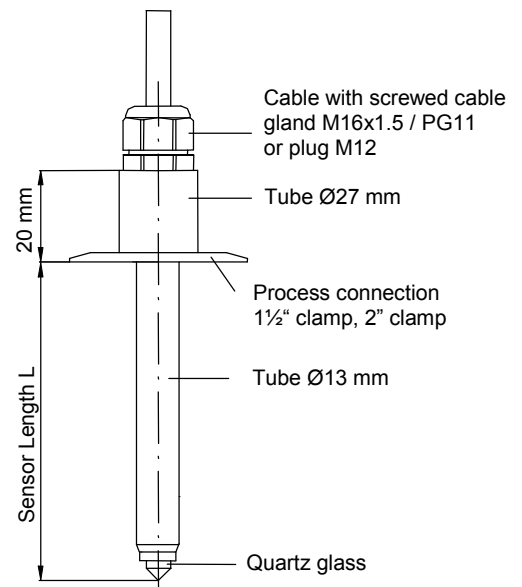
OPG 06

Characteristics

- ▶ No moving parts
- ▶ parts contacted with the medium are made of 316L
- ▶ Simple to install
- ▶ Mounting direction: any
- ▶ High reliability
- ▶ Long service life
- ▶ Measuring accuracy $\pm 0,5$ mm
- ▶ Electrical connection: cable connection or plug
- ▶ Output PNP
- ▶ Closer or Opener
- ▶ Adjustable sensitivity for any application (e.g. foam detection)
- ▶ Sensor length: min. 65 mm, max. 1000 mm

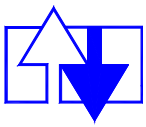


Dimensions



Areas of application

- Food industry
- Pharmaceuticals



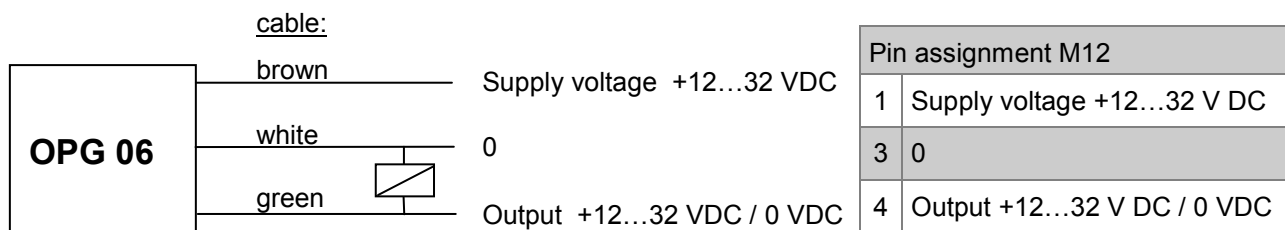
Operating Principle

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

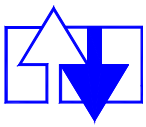


Technical Data

Max. pressure	2,5 MPa	Min. distance sensor tip to any opposite wall	> 10 mm
Ambient temperature	-25°C to +70°C	Process connections	1½" clamp, 2" clamp, other types on request
Operating temperature	-30°C to +100°C temporary up to max. +125°C	Sensor length L	min. 65 mm max. 1000 mm
Measuring accuracy	± 0,5 mm		
Material housing	stainless steel 316L		
Material prism	quartz glass		
Mounting direction	any		

Electrical Data

Supply voltage	12...32 V DC	Electrical connection	cable PVC and PUR 3 x 0,25 mm ² or coupler plug or plug M12, other types on request
Supply current max.	40 mA		
Switch point number	1		
Output	Protective DC PNP (200 mA)		
Switch function	closer or opener		
Protection class	IP65		



Product overview / order table

OPG 06

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
 L other cable length: dimensions in m
 2U Connection cable: 2 m PUR 3 x 0,25 mm², Standard
 U other cable length: dimensions in m
 W Coupler plug, DIN 43650
 M12 Plug M12
 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)

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

OPG 06 [] [] [] [] [] []

Accessories: Circular plugs M12

Type		Order number	Design
Female plug M12 with	2 m PVC cable	K12PVC 2	
	5 m PVC cable	K12PVC 5	
	2 m PUR cable	K12PUR 2	
	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	

Colour	
1	brown
3	blue
4	black

Distributore esclusivo per l'Italia:

TRAFAG ITALIA S.r.l.
 c/o Tecnocity Altomilanese
 Via Cremona 1
 20025 Legnano (MI)

Tel: 0331 592 397
 Fax: 0331 599 815
 www.trafagitalia.com
 info@trafagitalia.com