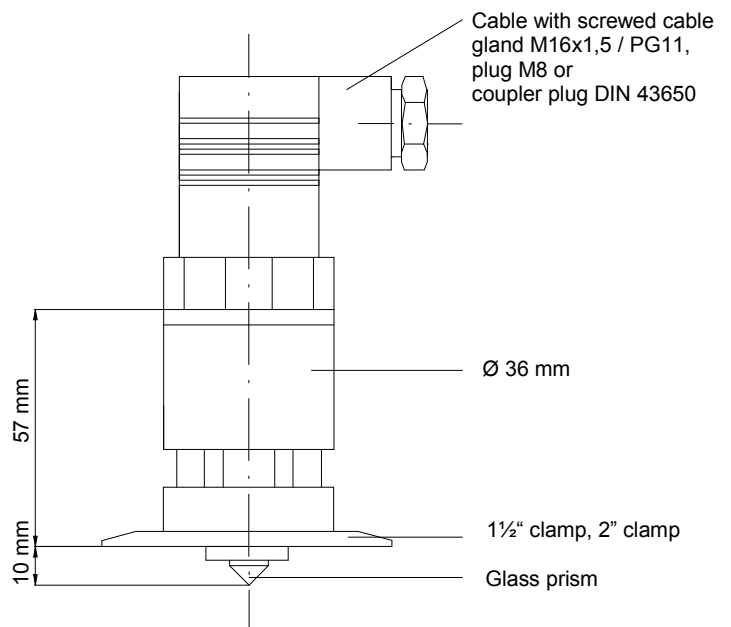
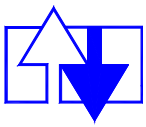
**Opto Electronic Level Switch** for detecting the level of liquid media**Limit Switch in stainless steel for hygiene applications****high temperature version****OPG 061****Characteristics**

- ▶ No moving parts
- ▶ Operating temperature: +175°C
- ▶ Simple to install
- ▶ Mounting direction: any
- ▶ parts contacted with the medium are made of 316L
- ▶ Long service life
- ▶ High reliability
- ▶ 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)

**Dimensions****Areas of application**

- Food industry
- Pharmaceuticals



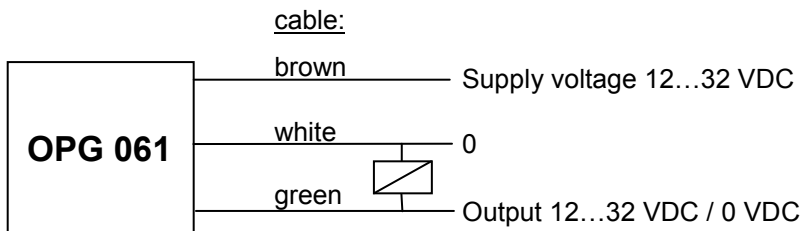
Operating Principle

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



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

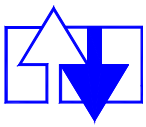
Coupler plug DIN 43650	
1	Supply voltage 12...32 V DC
2	0
3	Output 12...32 V DC / 0 VDC

Technical Data

Max. pressure	4,0 MPa	Min. distance sensor tip to	
Ambient temperature	-25°C to +70°C	any opposite wall	> 10 mm
Operating temperature	-30°C to +175°C	Mounting direction	any
Measuring accuracy	± 0,5 mm	Process connections	1½" clamp, 2" clamp, other types on request
Material housing	parts contacting the medium: in stainless steel 316L parts out of medium: in stainless steel 303		
Material prism	quartz glass		

Electrical Data

Supply voltage	12...32 V DC	Protection class	IP65
Supply current max.	40 mA	Electrical connection	cable PVC and PUR 3 x 0,25 mm ² , coupler plug or plug M8, other types on request
Switch point number	1		
Switch function	closer or opener		
Indication of active output	1 LED		
Output	Protective DC PNP (200 mA)		



Product overview / order table

OPG 061

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
W Coupler plug DIN 43650
M8 Plug M8
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)

OPG 061				
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Accessories: Circular plugs M8

Type		Order number	Design
Female plug M8 with	2 m PVC cable	K8PVC 2	
	5 m PVC cable	K8PVC 5	
	2 m PUR cable	K8PUR 2	
	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	

Colour	
1	brown
3	blue
4	black

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