



Opto-Electronic Level Switch OG 05

Type for high temperature for detecting the level of liquid media



- Medium temperature up to 170°C
- Compression strength 25 bar
- Adjustable sensitivity
- High reliability
- Mounting direction: any
- No moving components



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Characteristics

- For liquids with temperature up to 175°C
- Foam detection
- Compact construction, no moving parts
- Reasonable prices
- Operating temperature: +170°C, >+170°C on request
- Pressure max.: 10 MPa
- Housing stainless steel, mounting direction :any
- Process connection : thread BSP 1/2"
- Measuring accuracy $\pm 0.5\text{mm}$
- Electrical connection: Cable or plug M12
- Output PNP DC (200mA)
- Functional LED display
- Make contact or break contact, closer or opener

Operation principle

The opto-electronic sensor contains an infrared LED and a light receiver.

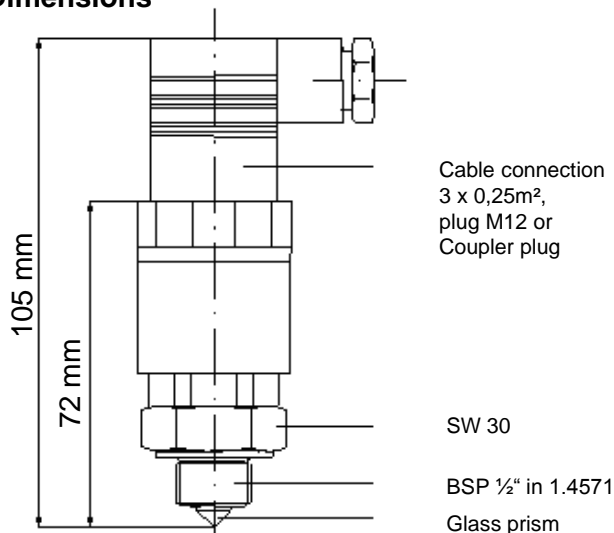
Light from the LED is directed into a prism which forms the tip of the sensor. With no liquid present, light from the LED is reflected within the prism to the receiver.

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.

Application

- Plant construction
- Machine tools
- Chemicals and pharmaceuticals
- Hydraulics
- Machine construction
- Water treatment etc.

Dimensions





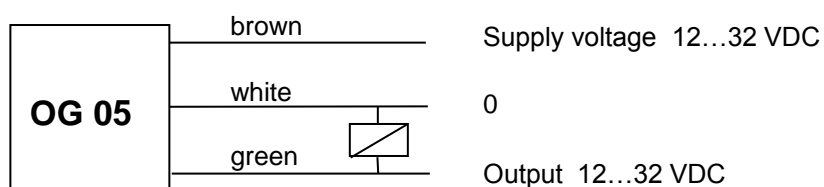
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Technical data	
Max. pressure	10 MPa
Ambient temperature	-30°C to +80°C
Operating temperature	-40°C to +170°C, >170°C on request
Measuring accuracy	± 0,5 mm
Material housing	Parts containing the medium: in stainless steel 1.4571
Material prism	Quartz glass
Min. distance sensor tip to any opposite wall	> 10 mm
Mounting direction	any
Process connections	BSP $\frac{1}{2}$ " Other types on request

Electrical data	
Supply voltage	12 – 32 V DC
Supply current max.	40 mA
Number of switch points	1
Switch function	closer or opener
Indication of active output	1 LED
Output	PNP Transistor
Protection	IP65
Electrical connection	cable PVC and PUR 3 x 0,25 mm ² , coupler plug or plug M12, Other types on request

Connection diagram



Pin assignment M12	
1	Supply voltage 12...32 V DC
3	0
4	Output 12...32 V DC

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



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Types / ordering process

OG 05

Process connection

A Fixing screw thread BSP $\frac{1}{2}$ "

X Other types on request

Electrical connection

2P Connection cable: 2 m PVC 3 x 0,25 mm², Standard
Other cable length: dimensions in mm

2U Connection cable: 2 m PUR 3 x 0,25 mm², Standard
Other cable length: dimensions in mm

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 open, 0 V DC)


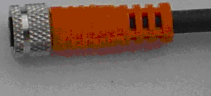
Sensitivity

A Sensitivity not adjustable (**Please specify the medium**)

T Sensitivity adjustable (with poti)

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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 PVC-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 PVC-cable	W12PUR 5	

Farbkennung

1	braun
3	blau
4	schwarz