Schmidt Mess- und Regeltechnik

Opto-Electronic Level Switch OG 04

Limit switch for liquid media in the refrigeration engineering



- For refrigerant, ammonia
- · Small and compact
- High compressive strength
- High reliability
- Location-independent installation
- No moving parts

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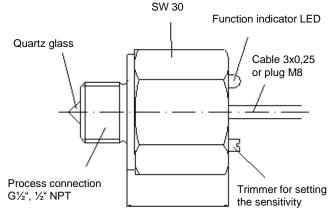
Features

- Small and compact
- No moving parts
- Excellent price / performance ratio
- Easy installation
- Location-independent installation
- High reliability
- Long lifetime
- Accuracy: <u>+</u> 0.5 mm
- Electrical connection: cable or plug
- Function indicator LED
- PNP transistor output
- Pressure 4 MPa, optionally higher
- Normally open or normally closed contact
- Response sensitivity may be adjusted to measurement task
- Glass sealed in steel case (no seal)

Application

- Plant construction
- Machine tools
- · Chemistry and pharmaceutical industry
- Hydraulic
- Mechanical engineering
- Water technology, etc.

Dimensions



The optoelectronic sensor includes an infrared LED and a light receiver.

Principle of operation

The LED light is directed into a prism that forms the tip of the sensor. As long as the tip is not immersed in liquid, the light within the prism is reflected to the receiver.

If the liquid rises in the container and surrounds the tip, the light is refracted by the liquid and no longer or only weakly reaches the receiver, which responds to this change and initiates a switching process.



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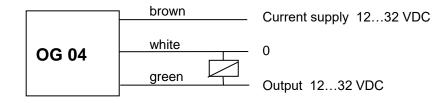
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Technical data		
Max. pressure	4 Mpa, optionally higher	
Ambient temperature	-30°C to +70°C	
Medium temperature	-40°C to +100°C	
Accuracy	<u>+</u> 0,5 mm	
Housing	Nickel-plated steel	
Material of glass prism	Glass, melted in steel case (without seal)	
Min. distance reflective surface to the prism	> 10 mm	
Mounting position	any	
Screw in thread	G ¹ / ₂ ", ¹ / ₂ " NPT, other versions on request	

Electrical data		
Operating voltage	12 – 32 V DC	
Current consumption max.	40 mA	
Number of switching points	1	
Function	Normally open or normally closed contact	
Output	DC PNP (200mA), reverse polarity protected	
Protection	IP65	
Electrical connection	PVC, PUR-cable 3 x 0,25 mm ² or angle plug or plug M8, other versions on request	

Electrical connection



Plug M8		
1	Supply 1232 V DC	
3	0	
4	Output 1232 V DC	

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

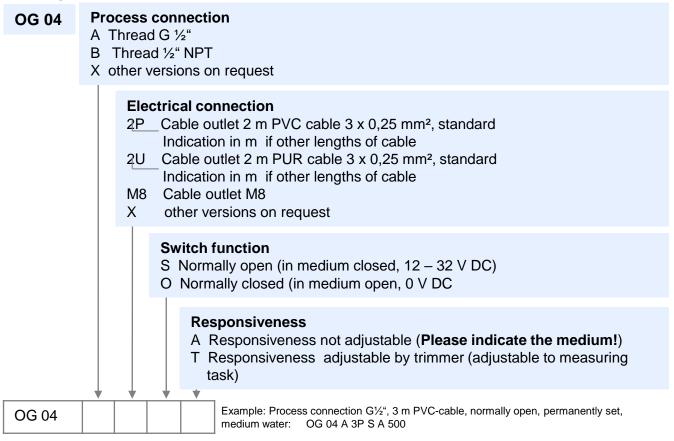
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.

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Ordering information



Accessories: Round plug connector M12

Туре		ID-No.	Design
Connection plug M8 with	2 m PVC-cable	K12PVC 2	
	5 m PVC-cable	K12PVC 5	
	2 m PUR-cable	K12PUR 2	
	5 m PVC-cable	K12PVC 5	
Angle plug M8 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	
	*	*	Coulour coding

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1

3 4 brown blue

black