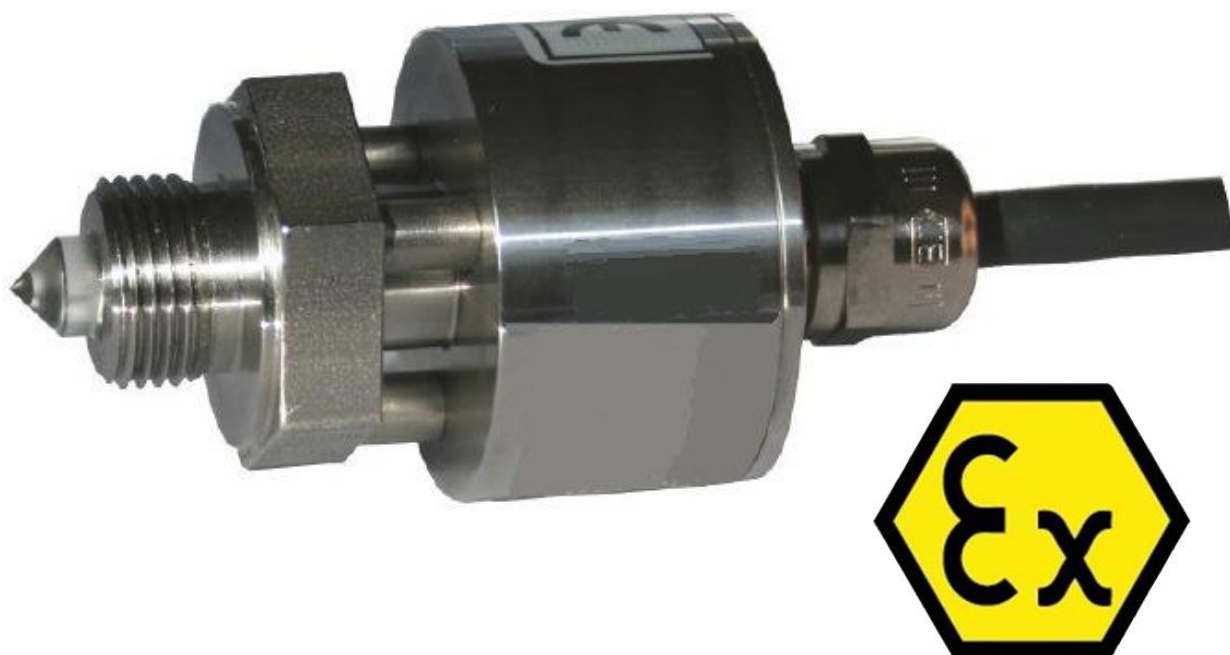




Opto-Electronic Level Switch OG 51

Vibration-resistant and temperature-shock-resistant limit switch made of stainless steel for limit value detection of liquid media with Atex approval according to II1 / 2G Ex ia IIC T4Ga / Gb



- Atex approval
- Vibration tested
- High reliability
- High precision
- Location-independent installation
- Robust design

D-EN-OG51-20190528



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Features

- Atex approval according to type of protection II1 / 2G Ex ia IIC T4Ga / Gb
- EC Type Examination
- Output: current signal
- Media temperature: + 135 ° C
- Ambient temperature max. 80 ° C
- Normally open or normally closed contact
- Installation position arbitrary
- High reliability
- Accuracy ± 0.5 mm
- Electrical connection: cable
- Economical

Principle of operation

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

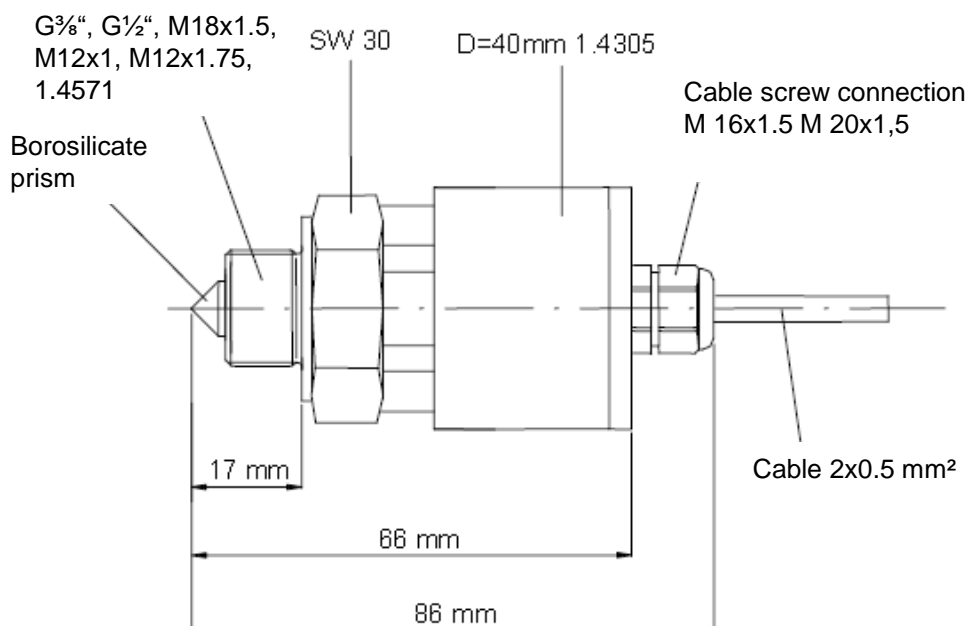
The LED light is directed into a prism that forms the tip of the sensor. As long as the tip is not immersed in liquid, the light within the prism is reflected to the receiver.

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.

Application

- Plant construction
- Machine tools
- Chemistry and pharmaceutical industry

Dimensions



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Technical data		Electrical data	
Max. pressure	2.5 MPa	Operating voltage	7.5...30 V DC I _o =100mA, U _o =30V P=1W
Ambient temperature	-30°C to +80°C	Number of switching points	1
Medium temperature	-30°C to +135°C	Function	Normally open or normally closed contact
Accuracy	± 0,5 mm	Output	Low: ≥4mA to <10mA, High: ≥12mA to 18mA reverse polarity protected, Fault: <4mA, >20mA
Housing	wetted parts made of stainless steel 1.4571	Protection	IP65
Material of glass prism	Borosilicate glass	Electrical connection	PUR-cable, non-halogen
Min. distance reflective surface to the prism	> 10 mm		
Mounting position	any		
Screw in thread	G 3/8", G 1/2" NPT 1/2", M18x1.5 M12x1, M12x1.75 M14x1.5, M14x1.75		

Electrical connection	
Assignment cable output	
BN	Supply +7.5...30 V DC
WH	Supply -7.5...30 V DC Low: ≥4mA to <10 mA; High: ≥12mA to 18mA Fault: <4mA, >20mA
The color assignment on the Type plate is applicable.	

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

OG 51

Process connection

- A Thread G ½"
- X other versions on request

Electrical connection

- 2P Cable outlet 2 m PUR cable, standard
- └ Indication in m if other lengths of cable

Switch function

- S Normally open (in medium closed, High: $\geq 12\text{mA}$ to $< 18\text{mA}$)
- O Normally closed (in medium open, Low: $> 4\text{mA}$ bis $< 10\text{mA}$ / fault $< 4\text{mA}$, $> 20\text{mA}$)

Responsiveness

- A Responsiveness not adjustable (**Please indicate the medium!**)

