Optoelectronic OEM level switch
Compact design
Model OLS-C05, high-temperature version

Applications

- Machine tools
- Hydraulics
- Plant construction and machine building
- Water technology
- For liquids, such as oils, water, distilled water, aqueous media

Special features

- Use at temperatures of up to +150 °C
- Mounting position as required
- Accuracy ±0.5 mm
- Visual indication of the switching status
- Choice of electrical connections: PUR cable, circular connector M12 or angular connector EN 175301-803 A

Optoelectronic OEM level switch, model OLS-C05, with angular connector

Description

The model OLS-C05 optoelectronic OEM level switch is used for monitoring the level of liquids. The optoelectronic sensor consists of an infrared LED and a light receptor.

The light from the LED is directed into a prism which forms the tip of the sensor. So long as the tip is not immersed in liquid, the light is reflected within the prism to the receptor.

When the liquid rises within the vessel and surrounds the tip, the light beam is interrupted by the liquid, so that the reactor is no longer or only weakly reached by the light and reacts to this change by triggering a switching operation.

The switching status can be read directly on the sensor (red LED).

The model OLS-C05 level switch is designed for use with liquids at high temperatures of up to +150 °C.

Data sheets showing similar products:
Optoelectronic OEM level switch, standard version; model OLS-C01; see data sheet LM 31.31
Optoelectronic OEM level switch, with variable switch length; model OLS-C02; see data sheet LM 31.32
Optoelectronic OEM level switch, refrigerant version with transistor output; model OLS-C04; see data sheet LM 31.34

Specifications

General data	
Measuring accuracy	±0.5 mm
Minimum distance from the glass tip to an opposite surface	≥ 10 mm
Mounting position	as required
Visual indication of the switching status	1 LED
Process connection	G 1/2" (male)

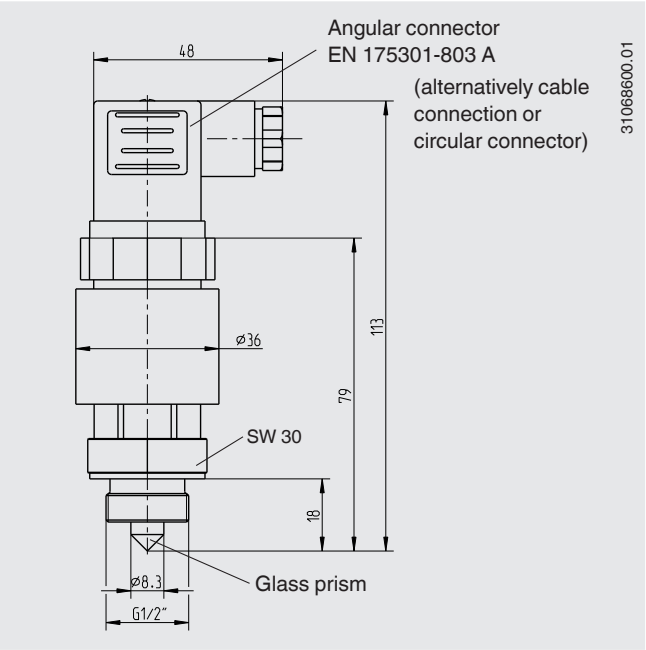
Design data	
Responsiveness	preset, please specify the medium
Medium temperature	-40 … +150 °C
Ambient temperature	-30 … +80 °C
Operating pressure	0 … 2.5 MPa (0 … 25 bar)
Materials	
■ Light guide	Borosilicate glass
■ Case	Stainless steel 1.4305 (non-wetted parts)
■ Process connection	Stainless steel 1.4571

Electrical data	
Power supply	DC 12 … 32 V
Max. current supply	40 mA
Output	PNP transistor, protected against reverse polarity
Electrical connection	
■ PUR cable	Standard lengths: 2 and 5 m Diameter: 3 x 0.25 mm² Cable end: cut to length
■ Circular connector	M12
■ Angular connector	per EN 175301-803 A
Switching function	Normally open (closed in medium) or normally closed (open in medium)
Ingress protection	IP 65
Number of switch points	1

Options

- Other versions on request
- Accessories: Circular connector M8 with cable

Dimensions in mm



Ordering information

Model / Process connection / Electrical connection / Switching function / Medium / Options

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