

Optoelectronic OEM level switch

Compact design

Model OLS-C01, standard version

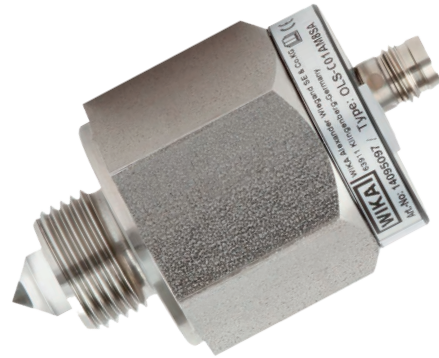
TC Fluid Control data sheet LM 31.31

Applications

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

Special features

- Compact design, no moving components
- Mounting position as required
- Accuracy ± 0.5 mm
- Visual indication of the switching status
- Choice of electrical connections: PUR cable or circular connector M8



Optoelectronic OEM level switch, model OLS-C01, with circular connector M8

Description

The model OLS-C01 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).

Data sheets showing similar products:

Optoelectronic OEM level switch, with variable switch length; model OLS-C02; see data sheet LM 31.32

Optoelectronic OEM level switch, high-temperature version; model OLS-C05; see data sheet LM 31.33

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	G 3/8", G 1/2" or M12 x 1 (male)

Design data

Responsiveness	preset, please specify the medium
Medium temperature	-30 ... +100 °C
Ambient temperature	-25 ... +70 °C
Operating pressure	0 ... 2.5 MPa (0 ... 25 bar)

Materials

- Light guide Borosilicate glass
- Case and process connection G 3/8" and M12 x 1 Stainless steel 1.4305
- Case and process connection G 1/2" 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 M8 x 1, 3-pin

Switching function	Normally open (closed in medium) or normally closed (open in medium)
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Ingress protection	IP 65
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Number of switch points	1
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Options

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

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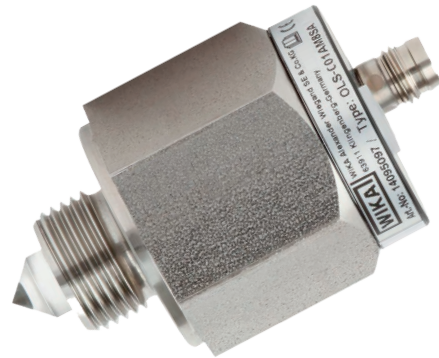
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