

Optoelectronic OEM level switch

Compact design

Model OLS-C04, refrigerant version with transistor output

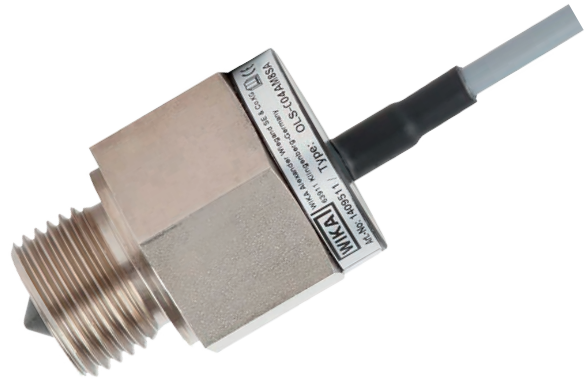
TC Fluid Control data sheet LM 31.34

Applications

- Level monitoring in refrigeration plants

Special features

- Application with refrigerants
- Mounting position as required
- Accuracy ± 0.5 mm
- Visual indication of the switching status
- Choice of electrical connections: PUR cable or connector M8



Optoelectronic OEM level switch, model OLS-C04, with cable outlet

Description

The model OLS-C04 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-C04 level switch can be used in refrigeration plants, since the glass prism is fused within the steel case.

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, high-temperature version; model OLS-C05; see data sheet LM 31.33

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" or 1/2" NPT (male) |

Design data

| | |
|-------------------------------|--|
| Responsiveness | preset, please specify the medium |
| Medium temperature | -40 ... +100 °C |
| Ambient temperature | -30 ... +70 °C |
| Operating pressure | 0 ... 4 MPa (0 ... 40 bar) |
| Materials | |
| ■ Light guide | Glass, fused within the steel case (without sealing) |
| ■ Case und process connection | Steel, nickel-plated |

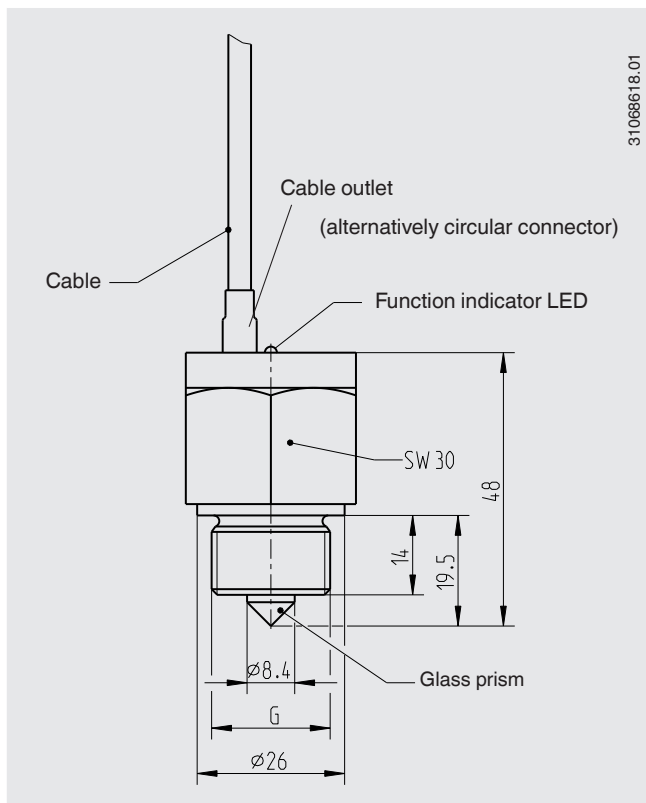
Electrical data

| | |
|--------------------------------|---|
| 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 mm ² Cable end: cut to length |
| ■ Circular connector | M8 |
| 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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