OLC-D1 Optical Level Switch | Sensor | Bitzer Part-No. 34794901

**Application**
The OLC-D1 optical level switches | sensor is used for contactless monitoring of the liquid level. This is accomplished by a screw-in unit installed at the measuring point for optical level scanning as well as an electronic, removable evaluation unit. The evaluation unit can be replaced without opening the reservoir of the monitored media. The relay trips 3 seconds after connecting the supply voltage. If no level is detected the relay switches off after a delay, the red LED illuminates. If the level reaches the good range, the relay picks up again after a delay, the red LED goes out. The own monitoring system of the optics integrated into the OLC-D1 ensures increased operational reliability. An installation check monitors the proper assembly. If there is a fault, the relay switches off after a delay, the red LED illuminates.

**Installation instructions**

**Mounting:** The proper sealing at the change-over point depends on the application case and needs to be ensured by the user. The mounting for the electronics (especially the glass) needs to be checked for cleanliness. Insert the evaluation unit in the screw-in unit and screw tight by hand with the coupling ring (torque about 10Nm). Make sure that the cable outlet points down. The electrical connection needs to be carried out according to the wiring diagram. After refilling the container, check the seal.

⚠️ The unit must be connected by trained electrical personnel.

**Technical specifications**

**Screw-in unit**
- Max. Medium temperature: +120 °C (max. 16000h), +100 °C
- Max. Operating pressure: 46 bar (-10 °C ... +120 °C), 34.5 bar (-30 °C ... -10 °C)
- Housing material: Steel acc. DGRL, nickel-plated
- Weight: Approx. 150g
- Connection thread: M20x1.5mm short, 1/2” NPT short, 1 1/8-18UNFE short
- Order No.: 15G15 465 01, 15G15 460 01, 15G15 462 01

**Evaluation unit**
- Permitted ambient temperature: -30 °C ... +60 °C
- Delays:
  - Relay On after applying the supply voltage: 3s±1s
  - Relay off (level missing): 5s±2s, LED ON
  - Relay off (error): 5s±2s, LED flashes
  - Relay On (level good): 5s±2s, LED OFF
  - Relay On (no errors): 5s±2s, LED OFF
- Output relay: Max. AC 240V 2.5A, C300, Min. AC/DC > 24V > 20mA
- Mechanical service life: Approx. 1 million switching cycles
- Connection type: Cable 5xAWG-18 (0.75mm²), L=2m, colure coded
- Protection class acc. To EN60529: IP54, ub built-in status
- Housing material: PA glass-fibre-reinforced
- Mounting: Union nut
- Weight: Approx. 220g
- Supply: AC115-230V ±10%, AC/DC 24V ±10%
- Order No.: 16G15 OLC 03, 16G15 OLC 04