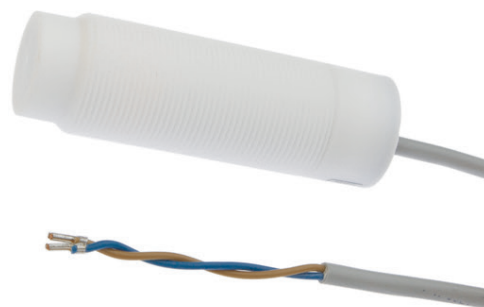


FK304200

FILLING LEVEL SENSORS • CAPACITIVE

Filling level and level sensors operate according to different measuring principles. The selection of the sensor depends on the medium to be detected and the ambient conditions. The material flow in a vibratory bowl can be excellently queried with inductive filling level sensors whose pendulum is moved by the material in the pot. The detection of liquid or solid media is, for instance, possible with capacitive filling level sensor technology. These work according to the principle of the condensator, the medium changes the dielectricity between two electrodes. The resulting change is converted into a digital output signal. A further alternative for the detection of filling levels of conductive media is provided by conductive filling level relays. The resistance between reference and measuring electrode is determined. If a set threshold is exceeded, a relay output switches.



MECHANICAL DATA

| | |
|---------------------------|------------------------|
| Ambient temperature | -25 °C ... 75 °C |
| Cable length | 2 m |
| Degree of protection (IP) | IP67 |
| Housing design | Cylinder, screw-thread |
| Housing material | PTFE |
| Material of cable sheath | PVC |
| Number of wires | 2 |
| Sensing element material | PTFE |
| Sensor diameter | 26 mm |
| Sensor length | 95 mm |
| Thread length | 65 mm |
| Thread pitch | 1.5 mm |
| Thread size, metric | 30 |
| Wire cross section | 0.5 mm ² |

ELECTRICAL DATA

| | |
|---|-------------------|
| Max. output current | 0.4 A |
| No-load current | 2.5 mA |
| Number of contacts as normally closed contact | 1 |
| Number of pins | 2 |
| Physical measurement principle | Capacitive |
| Rated control supply voltage Us at AC 50HZ | 20 V ... 250 V |
| Response sensitivity, adjustable | Yes |
| Setting procedure | Manual adjustment |
| Switching frequency | 10 Hz |
| Type of electrical connection | Cable |
| Type of switching function | Breaker contact |
| Type of switching output | Two-wire |
| Voltage drop | 8 V |

ELECTRICAL DATA

Voltage type for actuation

AC

With LED display

Yes

DIMENSIONAL DRAWING

INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

DISPOSAL



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!