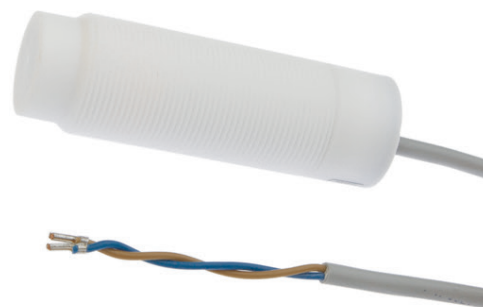


**FK304103**

**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	20 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 <sup>2</sup>

**ELECTRICAL DATA**

Max. output current	0.4 A
No-load current	2.5 mA
Number of contacts as normally open 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	Normally open 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!