FK98C882

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 ... 55 °C
Degree of protection (IP)	IP67
Housing design	Special construction
Housing material	Aluminium
Medium temperature	-25 °C ... 100 °C
Pressure resistance	6 bar
Probe diameter	16 mm
Probe length	200 mm
Sensing element material	GRP
Sensor length	335 mm
Thread length	20 mm
Thread size, inches	1 inch
Type of process connection	G1 inch

ELECTRICAL DATA

Max. output current	0.25 A
No-load current	50 mA
Number of contacts as normally closed contact	1
Number of contacts as normally open contact	1
Number of pins	4
Number of probes	1
Physical measurement principle	Capacitive
Rated control supply voltage Us at DC	18 V ... 36 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Switching frequency	4 Hz
Type of electrical connection	Clamp
Type of switching function	Anticoincidence
Type of switching output	PNP

ELECTRICAL DATA

Voltage drop	2.5 V
Voltage type for actuation	DC

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!

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