

FK98C322

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 ... 100 °C
Degree of protection (IP)	IP67
Housing design	Special construction
Housing material	PTFE
Increased ambient temperatures > 80°C	Yes
Medium temperature	-25 °C ... 100 °C
Probe diameter	22 mm
Probe length	90 mm
Sensing element material	PTFE
Sensor diameter	26 mm
Sensor length	125 mm

ELECTRICAL DATA

Max. output current	0.25 A
No-load current	15 mA
Number of contacts as normally closed contact	1
Number of contacts as normally open contact	1
Number of pins	4
Physical measurement principle	Capacitive
Rated control supply voltage U_s at DC	10 V ... 35 V
Response sensitivity, adjustable	Yes
Setting procedure	Manual adjustment
Switching frequency	50 Hz
Type of electrical connection	Connector M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type for actuation	DC
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!