

FK98E048

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	-70 °C ... 250 °C
Cable length	2 m
Degree of protection (IP)	IP67
Housing design	Cylinder plain
Housing material	PTFE
Increased ambient temperatures > 80°C	Yes
Medium temperature	-70 °C ... 250 °C
Probe diameter	16 mm
Probe length	350 mm
Sensing element material	PTFE
Sensor diameter	16 mm
Sensor length	350 mm

ELECTRICAL DATA

Physical measurement principle	Capacitive
Type of electrical connection	SMB
Type of switching function	Amplifier
Type of switching output	Amplifier

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!