

FK98C137

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	-35 °C ... 200 °C
Cable length	2 m
Degree of protection (IP)	IP68
Housing material	Stainless steel 1.4571
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	PTFE
Sensor diameter	13 mm
Sensor length	255 mm

ELECTRICAL DATA

Reverse polarity protection	Yes
Short-circuit-proof	Yes
Type of electrical connection	Cable
Type of switching function	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!

