FK991274

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 (MAX)	180 °C
Ambient temperature (MIN)	35 °C
Cable length	2 m
Degree of protection (IP)	IP68
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4571
Increased ambient temperatures > 80°C	Yes
Material of cable sheath	PTFE
Medium temperature (MAX)	180 °C
Medium temperature (MIN)	-35 °C
Pressure resistance	10 bar
Probe diameter	7 mm
Probe length	16 mm
Sensing element material	PTFE
Sensor length	45 mm
Thread length	17 mm
Thread size, inches	1/4 inch
Type of process connection	G1/4 inch

ELECTRICAL DATA

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

Never use these devices in applications where the safety of a person depends on their functionality.

ipf electronic gmbh • Kalver Straße 25 - 27 • 58515 Lüdenscheid - Germany | Tel +49 2351 9365-0 • Fax +49 2351 9365-19 | info@ipf-electronic.com • **www.ipf-electronic.com**