FY98C186

FILLING LEVEL SENSORS • OPTICAL

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)	50 °C
Ambient temperature (MIN)	-25 °C
Cable length	2 m
Degree of protection (IP)	IP67
Depth	37.2 mm
Height	10.5 mm
Housing design	Cuboid
Material of cable sheath	PVC
Medium temperature (MAX)	50 °C
Medium temperature (MIN)	-25 °C
Number of wires	3
Sensing element material	PFA
Width	23 mm

ELECTRICAL DATA

Max. output current	0.05 A
No-load current	30 mA
Number of contacts as normally closed contact	1
Number of pins	3
Physical measurement principle	Optic
Rated control supply voltage Us at DC (MAX)	24 V
Rated control supply voltage Us at DC (MIN)	12 V
Reverse polarity protection	Yes
Short-circuit-proof	Yes
Type of electrical connection	Cable
Type of switching function	Breaker contact
Type of switching output	PNP
Voltage drop	1 V
Voltage type for actuation	DC

ELECTRICAL DATA

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!

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**