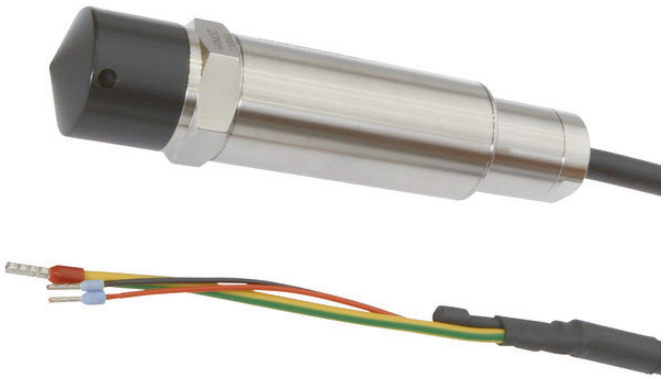
FY98E252

FILLING LEVEL SENSORS • HYDROSTATIC

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 FEATURES

Ambient temperature	-20 °C ... 70 °C
Degree of protection (IP)	IP68
Depth	57 mm
Height	124 mm
Housing design	Special construction
Housing material	Stainless steel 1.4404
Material of cable sheath	Other
Medium temperature	-20 °C ... 70 °C
Number of cores	3
Pressure resistance	1 bar
Probe diameter	27.5 mm
Probe length	10000 mm
Sensing element material	Stainless steel 1.4404
Sensor height	126.3 mm
Thread length	15 mm
Thread size, inches	1 inch
Type of process connection	G1 inch
Width	157 mm

ELECTRICAL FEATURES

Number of probes	1
Rated control supply voltage Us at DC	10 V ... 30 V
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Clamps
Voltage drop	2 V
Voltage type for actuation	DC

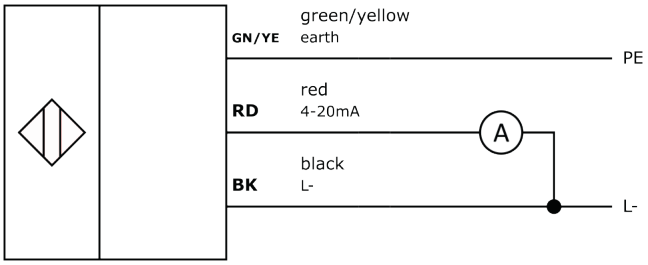
Other

Packaging dimensions	300mm x 50mm x 300mm
Shipping weight	1kg
Tariff code	85365019

Classification

ipf product group	700
eClass 8.0	27371813
eClass 9.0	27371813
eClass 9.1	27371813
ETIM-5.0	EC001447
ETIM-6.0	EC001447
ETIM-7.0	EC001447

Connection



Dimensional drawing

Installation

Mounting / installation may only be carried out by a qualified electrician!

Disposal

Software

Please download the software or driver required for operating your new device on our homepage: www.ipf.de

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.
LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.