

FI520170

Filling level sensors • Inductive

Sensor filling level, inductive, 21x14x52mm, pendulum 200mm, 10-30V diagnostic coverage, PNP NO, M8 plug connector 3-pin, housing polyamide, joint plastic, pendulum plastic



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.

Electrical features

Number of normally open contacts	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M8
Type of switching output	PNP
Rated switching current	200mA
Short-circuit protection	Yes
No-load current	15mA
Number of pins	3
Voltage drop	2V
Reverse polarity protection	Yes
Measurement principle	Inductive
Operating voltage (DC)	10 - 30V

Mechanical features

Design	Cuboid
Width	14mm
Height	21mm
Length	252mm
Pendulum length	200mm
Degree of protection (IP)	IP67
Housing material	Nylon 6 with 30% glass fibers
Joint material	Plastic
Sensing element material	Plastic (PA)
Pendulum material	Plastic (POM C)
Ambient temperature	50°C

Other features

Ambient temperature	50°C
---------------------	------

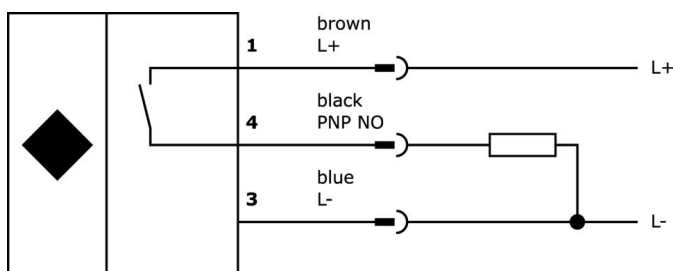
Classification

ETIM 8	EC001447 Level/level monitoring device
--------	--

More

IPF Product Group	351 filling level sensors (mechanic/inductive)
packaging dimensions	350 x 250 x 20 mm
gross weight	160 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.

Dimensional drawing

