

## F1520150

### Filling level sensors • Inductive

sensor filling level, Inductive, 21x14x60mm, pendulum 200mm, 10-30V DC, 0-120°C, PNP NO, Cable 3pin, housing Polyamide, joint Plastic, pendulum Stainless steel



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 condenser, 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 contacts as normally open contact	1
Type of switching function	Normally open contact
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	50mA
Operating voltage (DC)	10 - 30V
Short-circuit protection	Yes
No-load current	15mA
Physical measurement principle	Inductive
Number of pins	3
Voltage drop	2V
Reverse polarity protection	Yes

#### Mechanical features

Wire cross section	0.14mm <sup>2</sup>
Number of cores	3
Design	Cuboid
Width	14mm
Height	21mm
Length	252mm
Pendulum length	200mm
Degree of protection (IP)	IP65
Housing material	Polyamide
Joint material	Plastic

**Other features**

Ambient temperature	0 - 120°C
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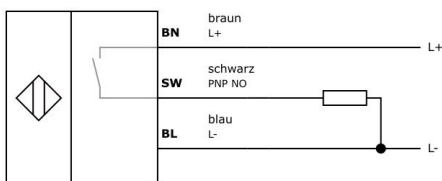
**Classification**

ETIM 8	EC001447 Level/level monitoring device
eClass 7.0	27371813
eClass 7.1	27371813
eClass 8.0	27371813
eClass 9.0	27371813
eClass 9.1	27371813

**More**

IPF Product Group	351 filling level sensors (mechanic/inductive)
packaging dimensions	290 x 230 x 61 mm
gross weight	243 g
Customs tariff number	85365019
WEEE number	40951076
OzDS-compliant	Yes
POP-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](http://www.ipf-electronic.com).

**Dimensional drawing**

