FK920400

Filling level sensors ● capacitive

sensor filling level, Capacitive, 1 inch 113long, G1 inch, 10-35V DC, PNP NC/NO, Cable 2m PVC, IP67, Polytetrafluorethylene (PTFE), probe Ø26mm 68long, Manual adjustment

including Screwdriver

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
Number of normally closed contacts	1
Display	LED display
Type of switching function	Normally closed contact/normally open contact
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	250 mA
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	15 mA
Switching frequency	50 Hz
Voltage drop	2 V
Reverse polarity protection	Yes
Measurement principle	Capacitive
Operating voltage (DC)	10 - 35 V
Output functions	Switching point

Mechanical features

Number of cores	4
Conductor cross-section	0.5 mm²
Type of process connection	G1 inch
Design	Round
Diameter	40 mm
Probe diameter	26 mm
Thread length	25 mm
Cable length	2 m
Length	113 mm
Probe length	68 mm
Medium temperature	-25 - 75 °C
Degree of protection (IP)	IP67
Housing material	Polytetrafluorethylene (PTFE)
Material of cable sheath	Plastic (PVC)
Sensing element material	Plastic (PTFE)
Thread dimension	1 inch
Ambient temperature	-25 - 70 °C
Line diameter	5 mm

Other features

Version	Smooth with round tip

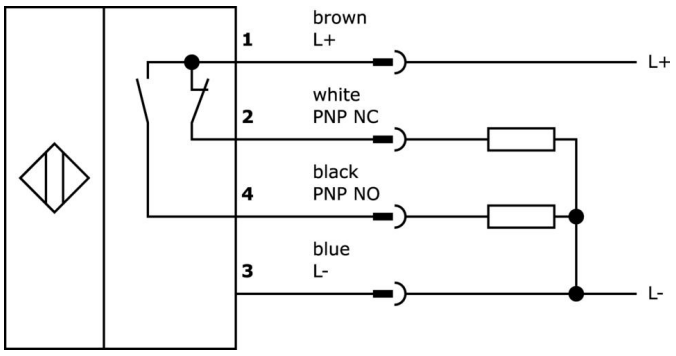
Classification

ETIM 8	EC001447 Level/level monitoring device

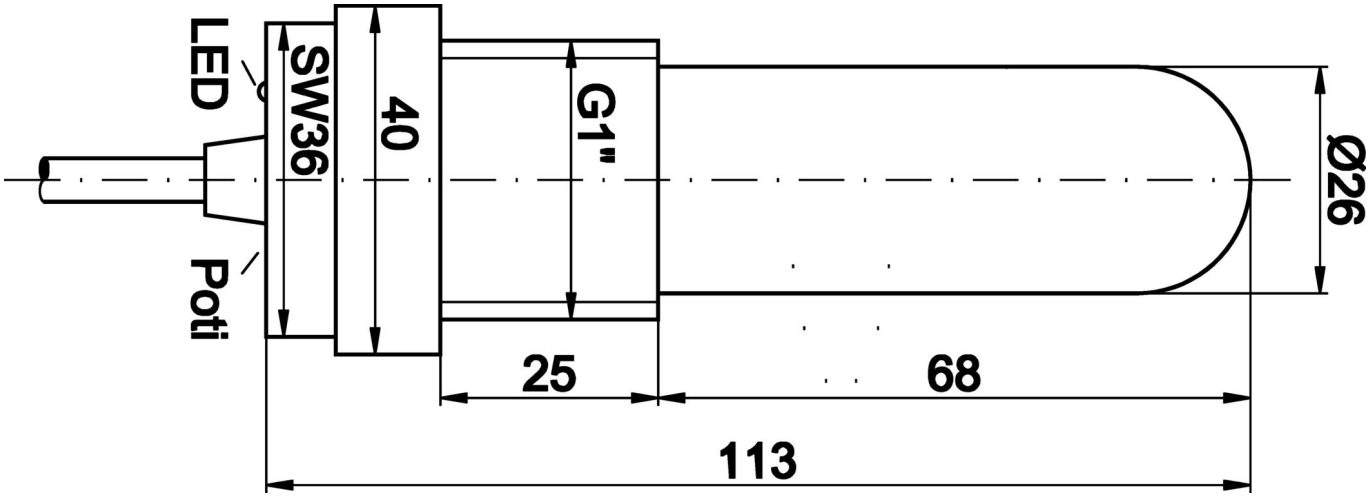
More

IPF Product Group	350 filling level sensors (capacitive/conductive)
packaging dimensions	240 x 15 x 50 mm
gross weight	285 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes
MTTF	1199 year(s)

Connection



Dimensional drawing



Extract accessories program

VK003026

Cable connector, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

VK003028

Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

AY98A753

accessories, Hexagon nut, 1 inch, Wrench size 46mm, Stainless steel

AY000141

Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

You can find further accessories on our homepage

Installation

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

Disposal

WEEE number according to § 6 para. 3 ElektroG: 40951076

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.