

## FK910100

### Filling level sensors • capacitive

Filling level sensor, capacitive, 3/4" 95long, G3/4", 10-55V DC, PNP NO, cable 2m PVC, IP67, PTFE, probe Ø26mm 10long, manual setting

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
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Cable
Type of switching output	PNP
Rated switching current	400 mA
Setting procedure	Potentiometer
Short-circuit protection	Yes
No-load current	4 mA
Switching frequency	10 Hz
Voltage drop	1 V
Reverse polarity protection	Yes
Measurement principle	Capacitive
Operating voltage (DC)	10 - 55 V
Output functions	Switching point

**Mechanical features**

Number of cores	3
Conductor cross-section	0.5 mm <sup>2</sup>
Type of process connection	G3/4 inch
Design	Cylinder, screw-thread
Probe diameter	26 mm
Thread length	65 mm
Cable length	2 m
Length	95 mm
Probe length	10 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	3/4 inch
Ambient temperature	-25 - 75 °C
Line diameter	5 mm

**Classification**

ETIM 8	EC001447 Level/level monitoring device
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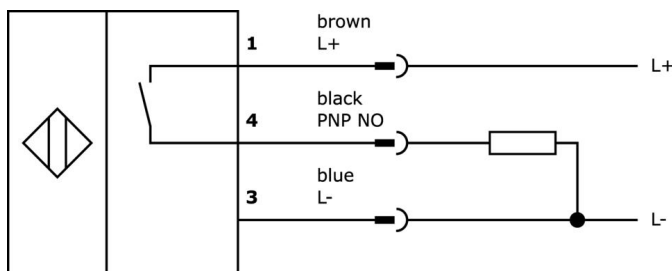
**More**

IPF Product Group	350 filling level sensors (capacitive/conductive)
packaging dimensions	121 x 76 x 50 mm
gross weight	200 g
Customs tariff number	85365019
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

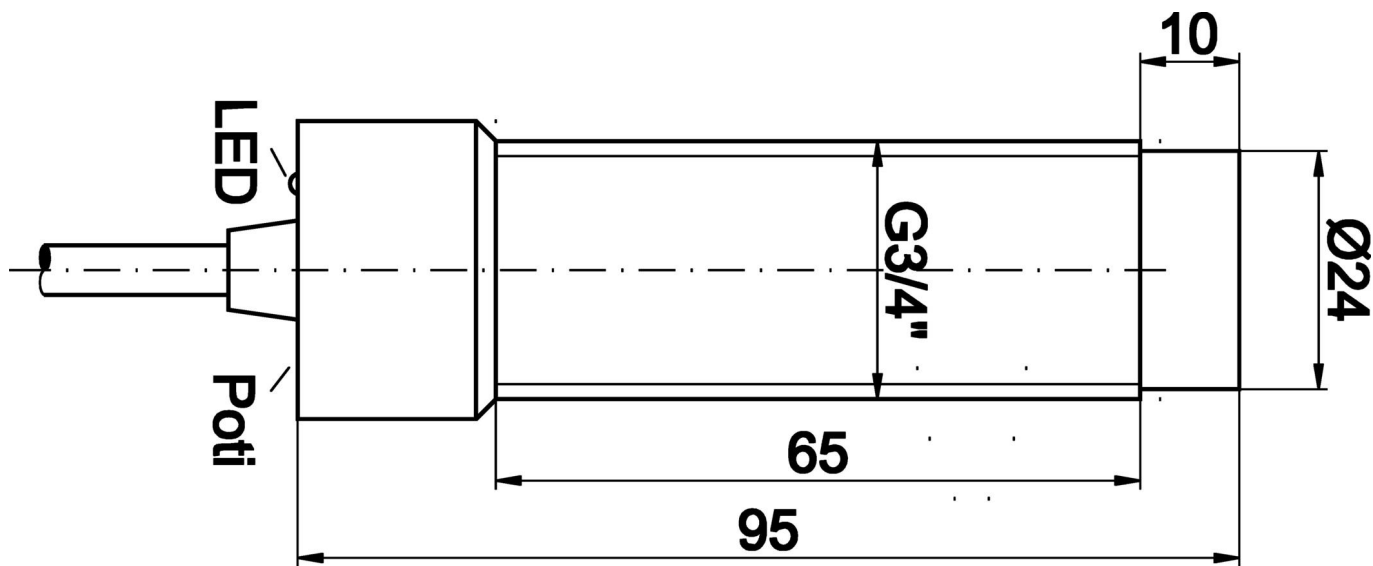
**Important notes**

**/** The potentiometer is located behind the screw.

**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

**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.