

#### FK920401

#### FILLING LEVEL SENSORS • CAPACITIVE

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 DATA**

-25 °C 70 °C
5 m
IP67
Special construction
PTFE
PVC
-25 °C 75 °C
4
26 mm
68 mm
PTFE
40 mm
113 mm
25 mm
1 inch
G1 inch
0.5 mm <sup>2</sup>

## **ELECTRICAL DATA**

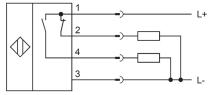
Max. output current	0.25 A
No-load current	15 mA
Number of contacts as normally closed contact	1
Number of contacts as normally open contact	1
Physical measurement principle	Capacitive
Rated control supply voltage Us at DC	10 V 35 V
Response sensitivity, adjustable	Yes
Reverse polarity protection	Yes
Setting procedure	Manual adjustment
Short-circuit-proof	Yes



#### **ELECTRICAL DATA**

Switching frequency	50 Hz
Type of electrical connection	Cable
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type for actuation	DC
With LED display	Yes

## **CONNECTION**



**Colors:** 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

**Functions:** 1 = L+, 2 = pnp/nc, 3 = L-, 4 = PNP NO

# **DIMENSIONAL DRAWING**

## INSTALLATION DISPOSAL



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



#### **SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!