

## FV98E049

### FILLING LEVEL SENSORS • SWITCHING AMPLIFIERS

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.



#### MECHANICAL DATA

Degree of protection (IP)	IP54
Depth	60 mm
Device design	Field device
Height	60 mm
Mounting method	Other
Width	120 mm

#### ELECTRICAL DATA

Galvanic isolation between inputs	No
Number of channels	4
Rated supply voltage at DC (MAX)	36 V
Rated supply voltage at DC (MIN)	18 V
Switching current	0.25 A
Switching frequency	4 Hz
Type of electrical connection	Other
Type of voltage supply	Active

#### OTHER DATA

Operating temperature (MAX)	55 °C
Operating temperature (MIN)	-25 °C

#### 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!

Never use these devices in applications where the safety of a person depends on their functionality.