

FV98A052**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 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

| | |
|---------------------------|-----------------|
| Degree of protection (IP) | IP54 |
| Depth | 2 mm |
| Device design | Field device |
| Height | 58 mm |
| Housing design | Cuboid |
| Housing material | Aluminium |
| Length | 2 mm |
| Material of cable sheath | PVC |
| Mounting method | Floor fastening |
| Number of wires | 3 |
| Width | 80 mm |

ELECTRICAL DATA

| | |
|--|---------------|
| Amplifier for capacitive sensors | Yes |
| Galvanic isolation between input and output | No |
| Galvanic isolation between inputs | No |
| Galvanic isolation between supply voltage and all other current circuits | No |
| Inherently safe according to EN 60947-5-6 NAMUR | No |
| Input voltage tolerance | 10 % |
| Malfunction message output | No |
| No-load current | 50 mA |
| Number of channels | 1 |
| Number of output circuits, transistor pnp | 1 |
| Number of pins | 3 |
| Power consumption | 1.2 W |
| Rated supply voltage at DC | 24 V ... 24 V |
| Suitable for safety functions | No |
| Switching capacity | 9.6 VA |
| Switching frequency | 10 Hz |

ELECTRICAL DATA

| | |
|-------------------------------|------------------------|
| Switching voltage | 24 V |
| Type of electrical connection | Plug-in connection M12 |
| Type of voltage supply | Active |
| With LED display | Yes |

OTHER DATA

| | |
|-----------------------|------------------|
| Operating temperature | -20 °C ... 60 °C |
|-----------------------|------------------|

DIMENSIONAL DRAWING**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!