

FY98A249

FILLING LEVEL SENSORS • HYDROSTATIC

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

Ambient temperature (MAX)	70 °C
Ambient temperature (MIN)	-20 °C
Degree of protection (IP)	IP65
Depth	57 mm
Height	124 mm
Housing design	Special construction
Housing material	Stainless steel 1.4404
Material of cable sheath	Other
Medium temperature (MAX)	70 °C
Medium temperature (MIN)	-20 °C
Number of wires	3
Probe diameter	40 mm
Probe length	10000 mm
Sensing element material	Stainless steel 1.4404
Sensor height	101 mm
Thread length	20 mm
Thread size, inches	1/2 inch
Type of process connection	G1/2 inch
Width	157 mm

ELECTRICAL DATA

Number of pins	3
Number of probes	1
Rated control supply voltage U_s at DC (MAX)	45 V
Rated control supply voltage U_s at DC (MIN)	11.5 V
Type of analog output	4 mA ... 20 mA
Type of electrical connection	Clamp
Voltage drop	2 V
Voltage type for actuation	DC

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!

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