

SV990969

FLOW SENSORS • SWITCHING AMPLIFIERS

The function of the flow sensor is based on the calorimetric principle. The probe is heated up from the inside a few degrees Celsius in relation to the flow medium, in which it protrudes. When the medium flows, the heat generated in the probe is dissipated through the medium. The temperature within the sensor is measured and compared with the likewise measured medium temperature. From the obtained temperature difference the flow state of each medium can be derived. These sensors are applied in areas such as monitoring of cooling systems, ventilation systems, pump dry running by checking the presence of liquid or gas flows.



MECHANICAL DATA

Degree of protection (IP)	IP20
Depth	110 mm
Device design	Field device
Height	78 mm
Housing design	Cuboid
Housing material	Plastic
Length	110 mm
Mounting method	Snap mounting mounting rail
Width	55 mm

ELECTRICAL DATA

Amplifier for flow sensors	Yes
ATEX approval	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 %
Line monitoring	Yes
Malfunction message output	No
Max. outer capacity	0.17 µF
Max. outer inductivity	0.5 mH
No-load current	200 mA
Number of channels	1
Output circuit, relay change-over contact	1
Rated supply voltage at AC	230 V ... 230 V
Suitable for safety functions	No
Switching voltage	250 V
Switching voltage AC	250
Switching voltage DC	60 V

ELECTRICAL DATA

Turn-off delay	25000 ms
Type of electrical connection	Clamp
Type of switching function	Change-over contact (NO/NC)
Type of voltage supply	Active
With LED display	Yes

OTHER DATA

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