

## SV554800

### 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	75 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
Flow range for oil	3 m/s
Flow range for oil	0.03 m/s
Flow range for water	1.5 m/s
Flow range for water	0.01 m/s
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
Malfunction message output	No
No-load current	34 mA
Number of channels	1
Output circuit, relay change-over contact	2
Power consumption	8 W
Rated supply voltage at DC (MAX)	60 V
Rated supply voltage at DC (MIN)	60 V
Suitable for safety functions	No
Switching capacity	1000 VA
Switching current	4 A

**ELECTRICAL DATA**

Switching voltage	250 V
Switching voltage AC	250
Switching voltage DC	60 V
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 (MAX)	60 °C
Operating temperature (MIN)	-20 °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!

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