

SS41C573

FLOW SENSORS • SENSORS FOR WATER

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) of evaluation electronics	IP67
Degree of protection (IP) of measuring head	IP67
Housing design	Cylinder plain
Housing material	Kynar (PVDF)
Medium temperature	-10 °C ... 85 °C
Pressure resistance	5 bar
Sensing element material	PVDF
Type of process connection	G1/2 inch

ELECTRICAL DATA

Adjustable responding value for flow for liquids	0.01 m/s ... 1 m/s
Flow range for water	0.7 m/s
Flow range for water	0.01 m/s
IO-Link compatible	No
Max. output current	400 mA
Measuring principle of flow	Calorimetric
No-load current	70 mA
Operating voltage	24 V ... 24 V
Pressure resistance of measuring head	5 bar
Readiness delay	100 ms
Turn-off delay	50 s
Type of electrical connection	Plug-in connection M12
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage type	DC
With LED display	Yes

OTHER DATA

Cooling water circuits	Yes
For hydraulic applications	Yes
Suitable for gases	No

OTHER DATA

Suitable for liquids

Yes

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!