

SS90C912

Flow sensors • Sensors for water

sensor flow, Water, Calorimetric, G1/2 inch, Anschluss an Verstärker, Cable 2m, V4A, Pressure resistance 60bar



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.

Electrical features

Response/decay time	20000 ms
Type of electrical connection	Cable
Readiness delay	20 ms
Max. line length	100 m
Measurement principle	calorimetric
Connection to amplifier	Yes

Mechanical features

Number of cores	4
Conductor cross-section	0.25 mm ²
Type of process connection	G1/2 inch
Design	Cylinder, screw-thread
Pressure resistance	60 bar
Thread length	80 mm
Cable length	2 m
Medium temperature	10 - 160 °C
Measuring range of flow velocity with water	0,01 - 300 m/s
Degree of protection (IP)	IP67
Housing material	Stainless steel 1.4571
Sensing element material	Stainless steel 1.4571
Measuring range flow velocity	,01 - 300 m/s
Measuring range Flow velocity in air	1 - 40 m/s

Other features

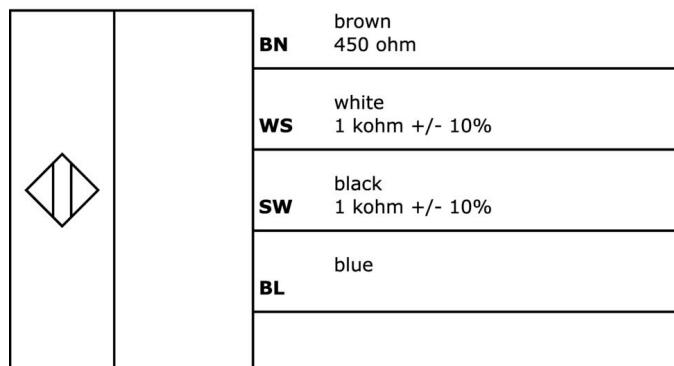
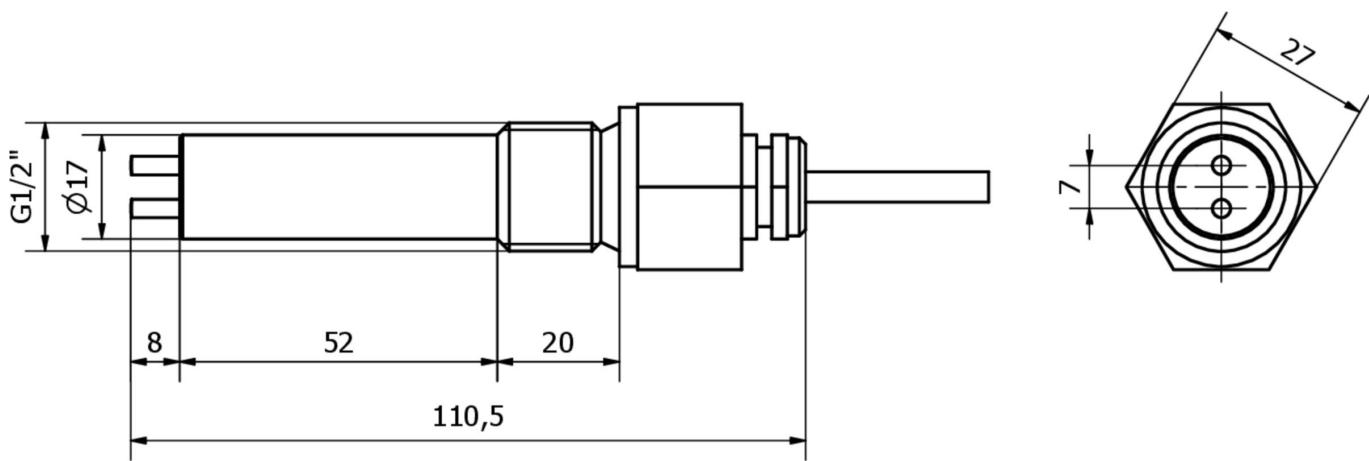
Suitable for	Gases
Reference medium / object	Water
ardTE00_Anwendungen	Hydraulik-Anwendungen Pneumatik-Anwendungen

Classification

ETIM 8	EC002580 Flow monitoring device
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More

IPF Product Group	300 flow sensors
packaging dimensions	149 x 124 x 35 mm
gross weight	270 g
Customs tariff number	90261021
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection**Connection to amplifier****Dimensional drawing**

Extract accessories program**SV550800**

amplifier flow, 110x75x55mm, 24V DC, Change-over contact (NO/NC), Clamp, IP20, Plastic, With LED display

SV554800

amplifier flow, 110x75x55mm, Change-over contact (NO/NC), Clamp, IP20, Plastic, With LED display

AY000141

Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

You can find further accessories on our homepage

**Installation**

Mounting / installation may only be carried out by a qualified electrician!

**Disposal**

WEEE number according to § 6 para. 3
ElektroG: 40951076

Safety warnings

- I** Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- I** Never use these devices in applications where the safety of a person depends on their functionality.