

**SL90A491**

**FLOW SENSORS • SENSORS FOR AIR**

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**

Cable length	2 m
Degree of protection (IP) of evaluation electronics	IP67
Degree of protection (IP) of measuring head	IP67
Housing design	Cylinder, screw-thread
Housing material	Stainless steel 1.4571
Material of cable sheath	PUR (Polyurethane)
Medium temperature (MAX)	60 °C
Number of wires	4
Pressure resistance	10 bar
Sensing element material	Stainless steel 1.4571
Type of process connection	G1/2 inch
Wire cross section	0.25 mm <sup>2</sup>

**ELECTRICAL DATA**

Adjustable responding value for flow for gases	2 m/s ... 25 m/s
Air conditioning / ventilation systems	Yes
IO-Link compatible	No
Measuring principle of flow	Calorimetric
Pressure resistance of measuring head	10 bar
Readiness delay	40 ms
Response time	5000 ms
Type of electrical connection	Cable

**OTHER DATA**

For pneumatic applications	Yes
Suitable for gases	Yes
Suitable for liquids	No

## 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!