

SY991185

FLOW SENSORS • SENSORS FOR LIQUIDS

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
Depth	23 mm
Height	45 mm
Housing design	Cuboid
Housing material	Aluminium
Pressure resistance	70 bar
Type of process connection	Hose OD 6mm
Width	45 mm

ELECTRICAL DATA

Max. output current	200 mA
No-load current	15 mA
Operating voltage (MAX)	36 V
Operating voltage (MIN)	10 V
Short-circuit-proof	Yes
Switching frequency	2 Hz
Type of electrical connection	Plug-in connection M8
Type of switching function	Normally open contact (NO)
Type of switching output	PNP
Voltage type	DC
With LED display	Yes

OTHER DATA

Suitable for gases	No
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!

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