

SY991184

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

| | |
|-------------------------------|----------------------------|
| IO-Link compatible | No |
| Max. output current | 200 mA |
| No-load current | 15 mA |
| Operating voltage | 10 V ... 36 V |
| Short-circuit-proof | Yes |
| Switching frequency | 2 Hz |
| Turn-off delay | 0.06 s |
| 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!