

## SS454900

### Flow sensors • Sensors for water

sensor flow, Water, Calorimetric, 78x108x50mm, G1/2 inch, 230V AC, Relay contact Change-over contact (NO/NC), Cable 2m PVC, PBT, Pressure resistance 100bar, Manual adjustment



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           | 13000 ms                    |
| Display                       | LED display                 |
| Type of switching function    | Change-over contact (NO/NC) |
| Type of electrical connection | Cable                       |
| Type of switching output      | Relay contact               |
| Turn-off delay                | 0 - 15 ms                   |
| Rated switching current       | 4000 mA                     |
| Setting procedure             | Manual adjustment           |
| No-load current               | 80 mA                       |
| Measurement principle         | calorimetric                |
| Operating voltage (AC 50Hz)   | 230 V                       |

**Mechanical features**

|                                             |                        |
|---------------------------------------------|------------------------|
| Type of process connection                  | G1/2 inch              |
| Design                                      | Cuboid                 |
| Width                                       | 50 mm                  |
| Pressure resistance                         | 100 bar                |
| Thread length                               | 48 mm                  |
| Height                                      | 78 mm                  |
| Cable length                                | 2 m                    |
| Length                                      | 108 mm                 |
| Medium temperature                          | -20 - 80 °C            |
| Measuring range of flow velocity with water | 0,01 - 1,5 m/s         |
| Measuring range of flow velocity with oil   | 0,03 - 3 m/s           |
| Degree of protection (IP)                   | IP67                   |
| Housing material                            | PBT                    |
| Material of cable sheath                    | Plastic (PVC)          |
| Sensing element material                    | Stainless steel 1.4571 |
| Measuring range flow velocity               | ,01 - 1,5 m/s          |
| Ambient temperature                         | -20 - 70 °C            |
| Measuring range Flow velocity in air        | 0,02 - 30 m/s          |
| Line diameter                               | 5 mm                   |

**Other features**

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

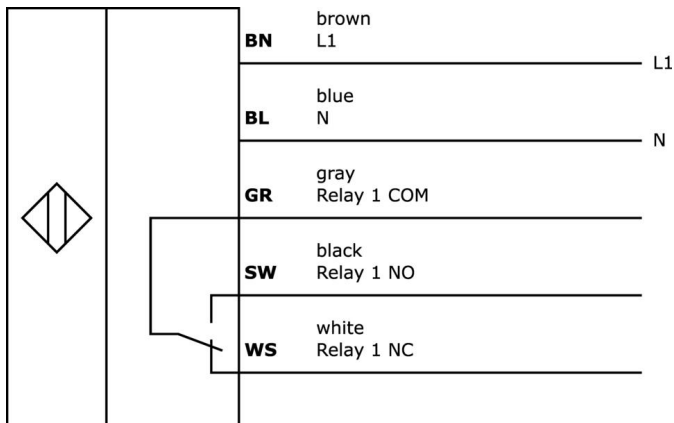
**Classification**

|        |                                 |
|--------|---------------------------------|
| ETIM 8 | EC002580 Flow monitoring device |
|--------|---------------------------------|

**More**

|                       |                   |
|-----------------------|-------------------|
| IPF Product Group     | 300 flow sensors  |
| packaging dimensions  | 210 x 138 x 95 mm |
| gross weight          | 712 g             |
| Customs tariff number | 90261021          |
| WEEE number           | 40951076          |
| Reach-compliant       | Yes               |
| RoHS-compliant        | Yes               |

## Connection



## Extract accessories program

### 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

/ 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.