

SM430025

Flow sensors • Sensors for water



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	8000 ms
Display	LED display
Type of switching function	Programmable/configurable
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Type of switching output	PNP
Turn-off delay	0 - 50 ms
Rated switching current	200 mA
Readiness delay	10 ms
No-load current	100 mA
Number of pins	4
Measurement principle	magnetic-inductive
Operating voltage (DC)	24 V

Mechanical features

Type of process connection	Cutting ring fitting for OD 15mm
Design	Cuboid
Width	72 mm
Pressure resistance	10 bar
Height	43 mm
Length	100 mm
Medium temperature	5 - 60 °C
Measuring range of flow velocity with water	0,2 - 40 m/s
Degree of protection (IP)	IP65
Housing material	PBT / PVDF
Sensing element material	Stainless steel 1.4571
Measuring range flow velocity	,2 - 40 m/s
Ambient temperature	0 - 60 °C

Other features

Reference medium / object	Water
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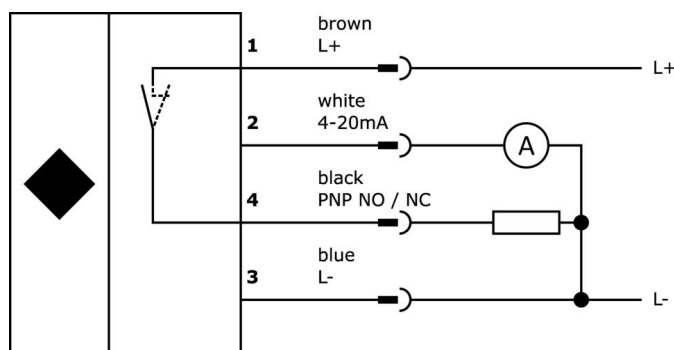
Classification

ETIM 8	EC002580 Flow monitoring device
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More

IPF Product Group	300 flow sensors
packaging dimensions	210 x 138 x 95 mm
gross weight	800 g
Customs tariff number	90261021
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



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.