

SM430025

Flow sensors • Sensors for water

Flow sensor, water, magnetic-inductive, 43x100x72 mm, cut-ring fitting for 15 mm OD, 24 V DC, PNP programmable/configurable, 4–20 mA, 4-pin M12 connector, PBT / PVDF, pressure resistance 10 bar



When an electrically conductive liquid crosses a magnetic field, a voltage dependent on the flow velocity is generated perpendicular to that magnetic field. This voltage is measured using electrodes located in the wall of the measuring tube. Microcontrollers evaluate this voltage, calculate the flow rate, and display it on the screen. An analog signal and a transistor switch output are available for further processing.

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 s
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	0,2 - 40 m/s
Ambient temperature	0 - 60 °C

Other features

Reference medium / object	Water
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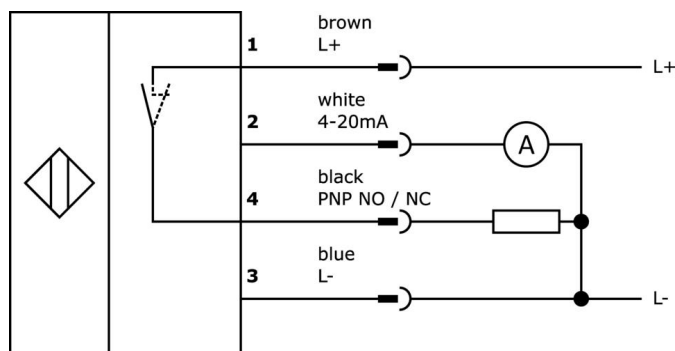
Classification

ETIM 8

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.