

SS450020

Flow sensors • Sensors for water

sensor flow, Water, Calorimetric, 78x108x50mm, G1/2 inch, 24V DC, 4-20mA, Plug-in connection M12 4pin, PBT, Pressure resistance 100bar, Manual adjustment

including Screwdriver



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 analog output	4 - 20mA
Type of electrical connection	Connector M12
Rated switching current	4000 mA
Setting procedure	Manual adjustment
No-load current	100 mA
Number of pins	4
Residual ripple	10 %
Measurement principle	calorimetric
Operating voltage (DC)	24 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
Length	108 mm
Medium temperature	-20 - 80 °C
Measuring range of flow velocity with water	0,05 - 3 m/s
Degree of protection (IP)	IP65
Housing material	PBT
Sensing element material	Stainless steel 1.4571
Measuring range flow velocity	,05 - 3 m/s
Ambient temperature	-20 - 70 °C

Other features

Reference medium / object	Water
ardTE00_Anwendungen	Hydraulik-Anwendungen

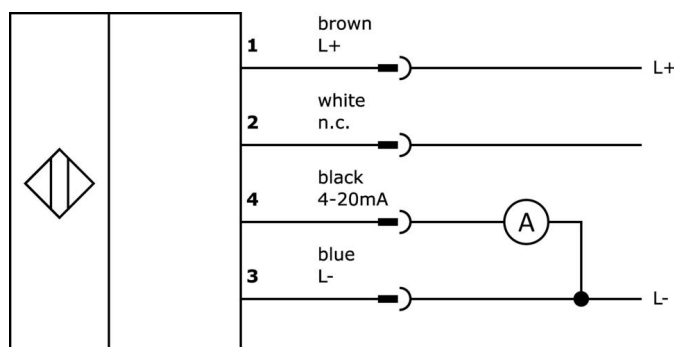
Classification

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	540 g
Customs tariff number	90261021
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Extract accessories program

VK205321

Connection cable, 2m, M12
Female (socket) 4pin Angular, Free
conductor end, 4x0.34mm², PUR
(Polyurethane), Ø5.5mm, 250V, -
25-90°C, IP67, Shielded, Suitable
for trailing chain and torsion
resistant, Oil and cooling
lubricants, Welding area, Silicon...

VK205325

Connection cable, 2m, M12
Female (socket) 4pin Straight, Free
conductor end, 4x0.34mm², PUR
(Polyurethane), Ø5.5mm, 250V, -
25-90°C, IP67, Shielded, Suitable
for trailing chain and torsion
resistant, Oil and cooling
lubricants, Welding area, Silico...

VK030F60

Connection cable, 0.3m, M12
socket 3-pin angular, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), 60V,
IP67, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

VK030F64

Connection cable, 0.3m, M12
socket 3-pin straight, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), 60V,
IP67, suitable for trailing chain and
torsion resistant, oils and cooling
lubricants, welding area, silicone-
free

VK200321

Connection cable, 2m, M12
Female (socket) 4pin Angular, Free
conductor end, 4x0.34mm², PUR
(Polyurethane), Ø4.7mm, 250V, -
40-90°C, IP67, Suitable for trailing
chain and torsion resistant, Oil and
cooling lubricants, Welding area,
Silicone-free

VK200325

Connection cable, 2m, M12
Female (socket) 4pin Straight, Free
conductor end, 4x0.34mm², PUR
(Polyurethane), Ø4.7mm, 250V, -
40-90°C, IP67, Suitable for trailing
chain and torsion resistant, Oil and
cooling lubricants, Welding area,
Silicone-free

VK003020

Cable socket, angular, self-
assembly, screw connection, Ø3-6.
5mm, 4A, 240V, -25-90°C, M12
socket 4-pin, IP67, PBT

VK003024

Cable socket, Straight, Suitable for
self-assembly, Screw connection,
Ø3-6.5mm, 4A, 240V, -25-90°C,
M12 Female (socket) 4pin, IP67,
PBT

VK030F21

Connection cable, 0.3m, M12
socket 4-pin angular, M12
connector 4-pin straight, 4x0.
34mm², 240V, IP67, suitable for
trailing chain and torsion resistant,
oils and cooling lubricants,
welding area, silicone-free

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.