

## 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**

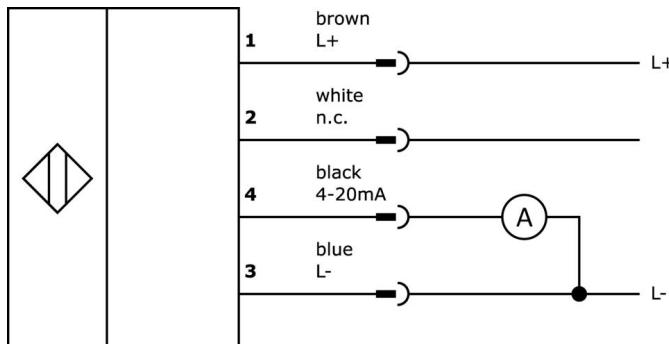
Reference medium / object	Water
ardTE00_Anwendungen	Hydraulik-Anwendungen

**Classification**

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

**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, 4x0.34mm<sup>2</sup>, 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, 4x0.34mm<sup>2</sup>, PUR  
(Polyurethane), Ø5.5mm, 250V, -  
25-90°C, IP67, Shielded, Suitable  
for trailing chain and torsion  
resistant, Oil and cooling  
lubricants, Welding area, Silicon...

## VK030F60



Connection cable, 0.3m, M12  
socket 3-pin angular, M8  
connector 3-pin straight, 3x0.  
34mm<sup>2</sup>, 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.  
34mm<sup>2</sup>, 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, 4x0.34mm<sup>2</sup>, 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, 4x0.34mm<sup>2</sup>, 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.  
34mm<sup>2</sup>, 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

- I** Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- I** Never use these devices in applications where the safety of a person depends on their functionality.