

SS27012A

Flow sensors • Sensors for water

sensor flow, Water, Calorimetric, 27x112x67mm, G1/4 inch, 24V DC, PNP NO (NO),
Plug-in connection M12, PBT, Pressure resistance 10bar

including Sealing ring, 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	3000 ms
Display	LED display
Type of switching function	Normally open contact (NO)
Type of electrical connection	Connector M12
Type of switching output	PNP
Rated switching current	200 mA
Readiness delay	20 ms
No-load current	50 mA
Measurement principle	calorimetric
Operating voltage (DC)	24 V

Mechanical features

Type of process connection	G1/4 inch
Design	Cuboid
Width	67 mm
Pressure resistance	10 bar
Height	27 mm
Length	112 mm
Medium temperature	0 - 60 °C
Measuring range of flow velocity with water	0,01 - 0,2 m/s
Degree of protection (IP)	IP67
Housing material	PBT
Sensing element material	Stainless steel 1.4571
Measuring range flow volume	0,001 - 0,2 l/min
Measuring range flow velocity	,01 - ,2 m/s
Ambient temperature	0 - 60 °C

Other features

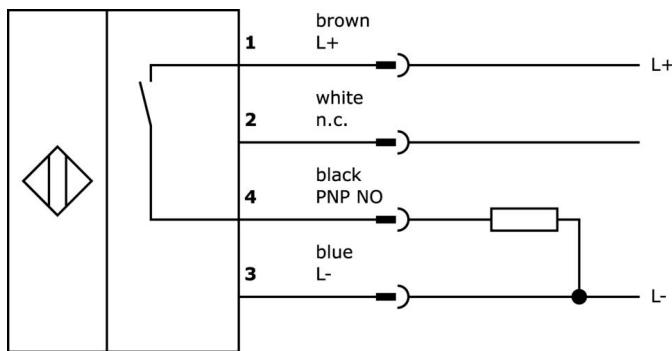
Reference medium / object	Water
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Classification

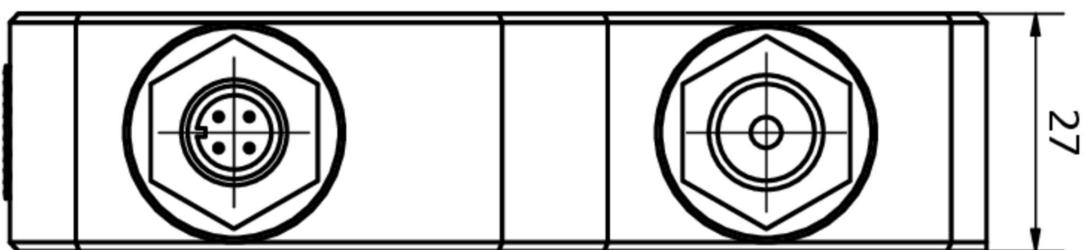
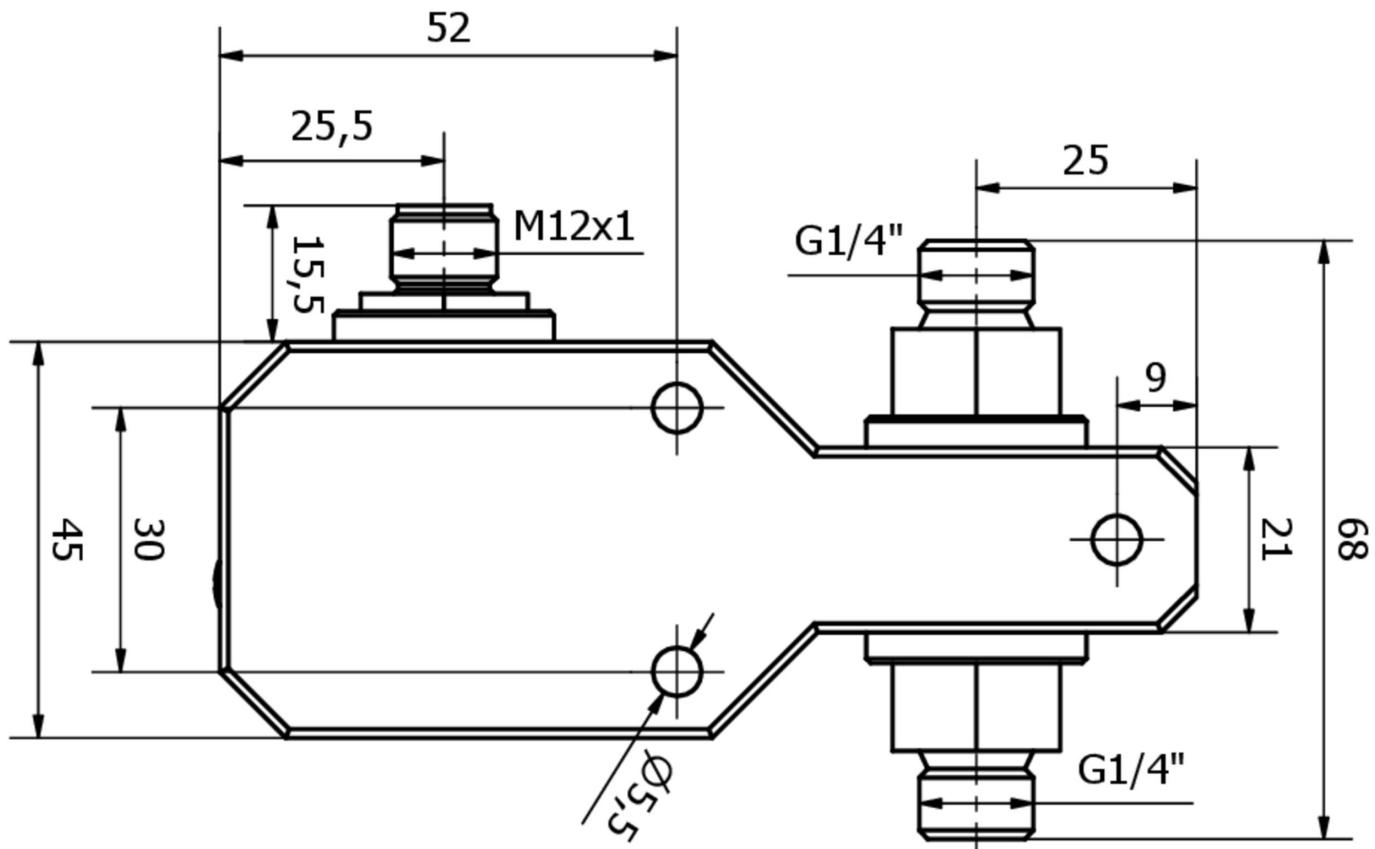
ETIM 8	EC002580 Flow monitoring device
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More

IPF Product Group	300 flow sensors
packaging dimensions	160 x 99 x 60 mm
gross weight	305 g
Customs tariff number	90261021
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Dimensional drawing



Extract accessories program

VK030F62



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

VK060F62



Connection cable, 0.6m, M12
socket 3-pin angular, M8
connector 3-pin straight, 3x0.
34mm², PUR (polyurethane), IP67,
LED, suitable for trailing chain and
torsion resistant, oils 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

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

VK200221



Connection cable, 2m, M12
Female (socket) 3pin Angular, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, -30-
90°C, IP67, With LED display,
Suitable for trailing chain and
torsion resistant, Oil and cooling
lubricants, Welding area, Silic...

VK200225



Connection cable, 2m, M12
Female (socket) 3pin Straight, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, -30-
90°C, IP67, With LED display,
Suitable for trailing chain and
torsion resistant, Oil and cooling
lubricants, Welding area, Sili...

VK200021



Connection cable, 2m, M12
Female (socket) 3pin Angular, Free
conductor end, 3x0.34mm², PUR
(Polyurethane), Ø4.3mm, 250V, -
30-90°C, IP67, Suitable for trailing
chain and torsion resistant, Oil 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.