

SL900021

Flow sensors • Consumption measurement for compressed air

Sensor flow, air, calorimetric, 109x55x135mm, G 1/2", 12-36V DC, 1x relay contact NO, 4-20mA, M12 plug connector 5-pin, plastic PC, pressure resistance 16bar, with display, parameterization



The function of the flow sensor is based on the calorimetric principle. The sensor is heated by a few degrees Celsius from the inside compared to the flow medium into which it protrudes. If the medium flows, the heat generated in the sensor is dissipated by the medium. The temperature generated in the sensor is measured and compared with the temperature of the medium, which is also measured. The flow state for each medium can be derived from the temperature difference obtained. Applications for these sensors include compressed air consumption measuring devices.

Electrical features

Number of switching outputs	1
Display	TFT display
Type of switching function	Normally open contact (NO)
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Type of switching output	Relay contact
Rated switching current	150 mA
Setting procedure	Parameterization
No-load current	140 mA
Number of pins	5
Switching voltage	48 V
Measurement principle	calorimetric
Operating voltage (DC)	12 - 36 V
Measuring accuracy	± 1.5 % of measuring range ± 0.3 % of measuring range end
ardTEEL_Schutzfunktionen	Short circuit protection Reverse polarity protection

Mechanical features

Type of process connection	G1/2 inch
Design	Cuboid, compact
Width	135 mm
Pressure resistance	16 bar
Height	109.1 mm
Length	55 mm
Medium temperature	-20 - 60 °C
Degree of protection (IP)	IP65
Housing material	Plastic PC
Sensing element material	Aluminum
Measuring range flow volume	0 - 1500 l/min
Measuring range flow velocity	0,18 - 185 m/s
Ambient temperature	-20 - 70 °C

Other features

Range of functions	Strömungsgleichrichtung
Reference medium / object	Air
ardTE00_Anwendungen	Pneumatic applications

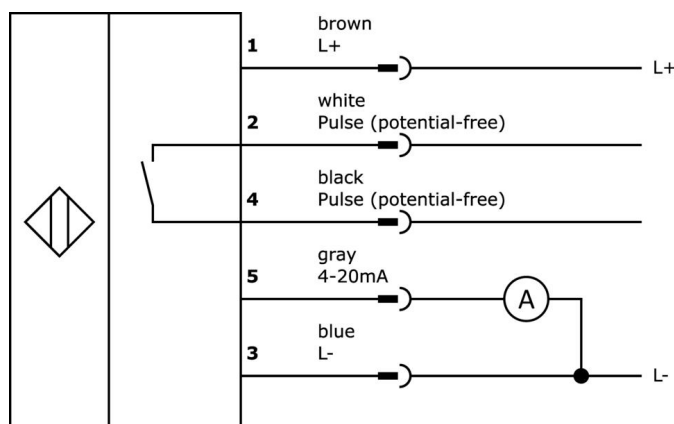
Classification

ETIM 8

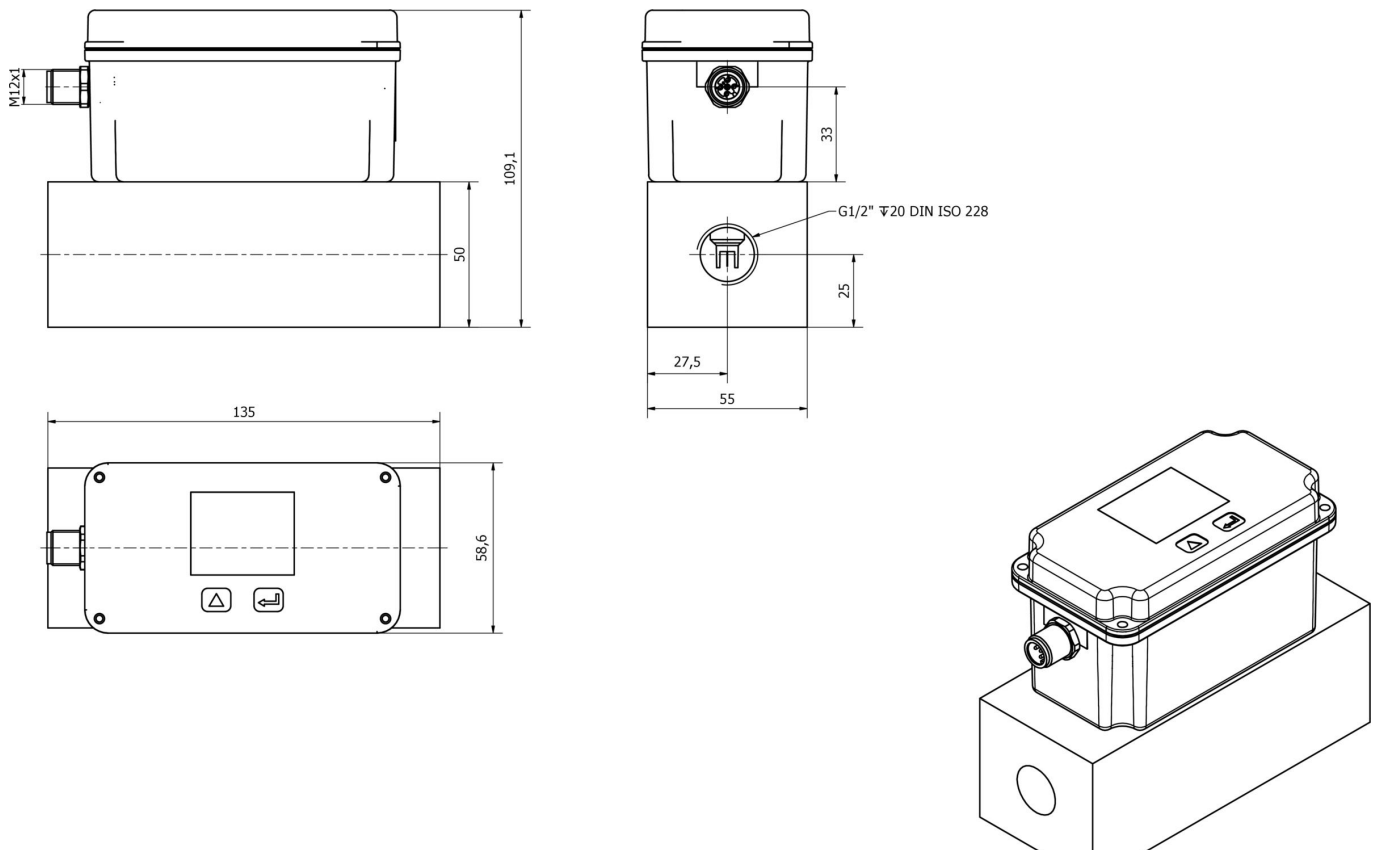
More

IPF Product Group	725 compressed air and leakage measurement
packaging dimensions	285 x 200 x 110 mm
gross weight	1469 g
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

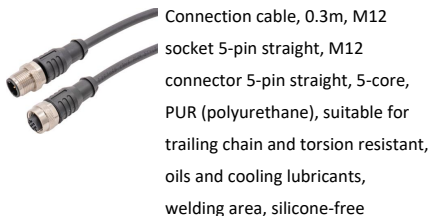


Dimensional drawing

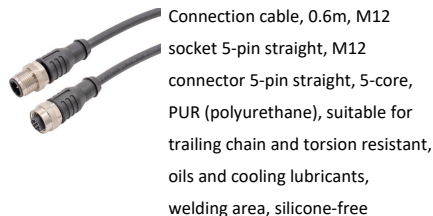


Extract accessories program

VK030F28



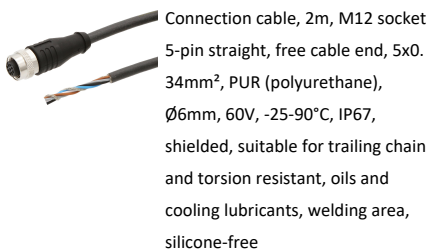
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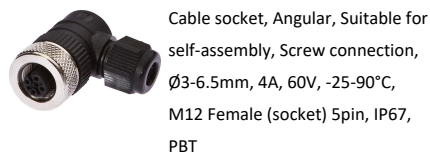
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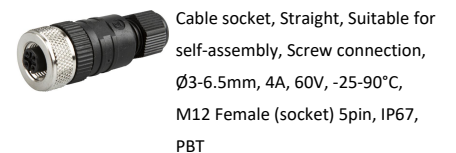
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VK003025



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.