SL930025

Flow sensors ● Consumption measurement for compressed air

Sensor flow, air, calorimetric, 109x55x135mm, G1 1/4", 12-36V DC, M12 plug
connector 5-pin, plastic PC, pressure resistance 16bar, with display, parameterization,
M-Bus

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

Electrical features

Display	TFT display
Type of electrical connection	Connector M12
Setting procedure	Parameterization
Coding of interface connection	A-coded
Short-circuit protection	Yes
No-load current	140 mA
Number of pins	5
Reverse polarity protection	Yes
Measurement principle	calorimetric
Number of pins of interface connection	5
Supported communication interface	MBus
Operating voltage (DC)	12 - 36 V
Measuring accuracy	± 1.5 % of measuring range ± 0.3 % of measuring range end

Mechanical features

Type of process connection	G1 1/4 inch
Design	Cuboid, compact
Width	135 mm
Pressure resistance	16 bar
Height	139.1 mm
Length	80 mm
Medium temperature	-20 - 60 °C
Degree of protection (IP)	IP65
Housing material	Plastic PC
Sensing element material	Aluminum
with flow straightener	Yes
Measuring range flow volume	0 - 8833,33 l/min
Measuring range flow velocity	,18 - 185 m/s
Ambient temperature	-20 - 70 °C

Other features

Reference medium / object	Air
ardTE00_Anwendungen	Pneumatik-Anwendungen

Classification

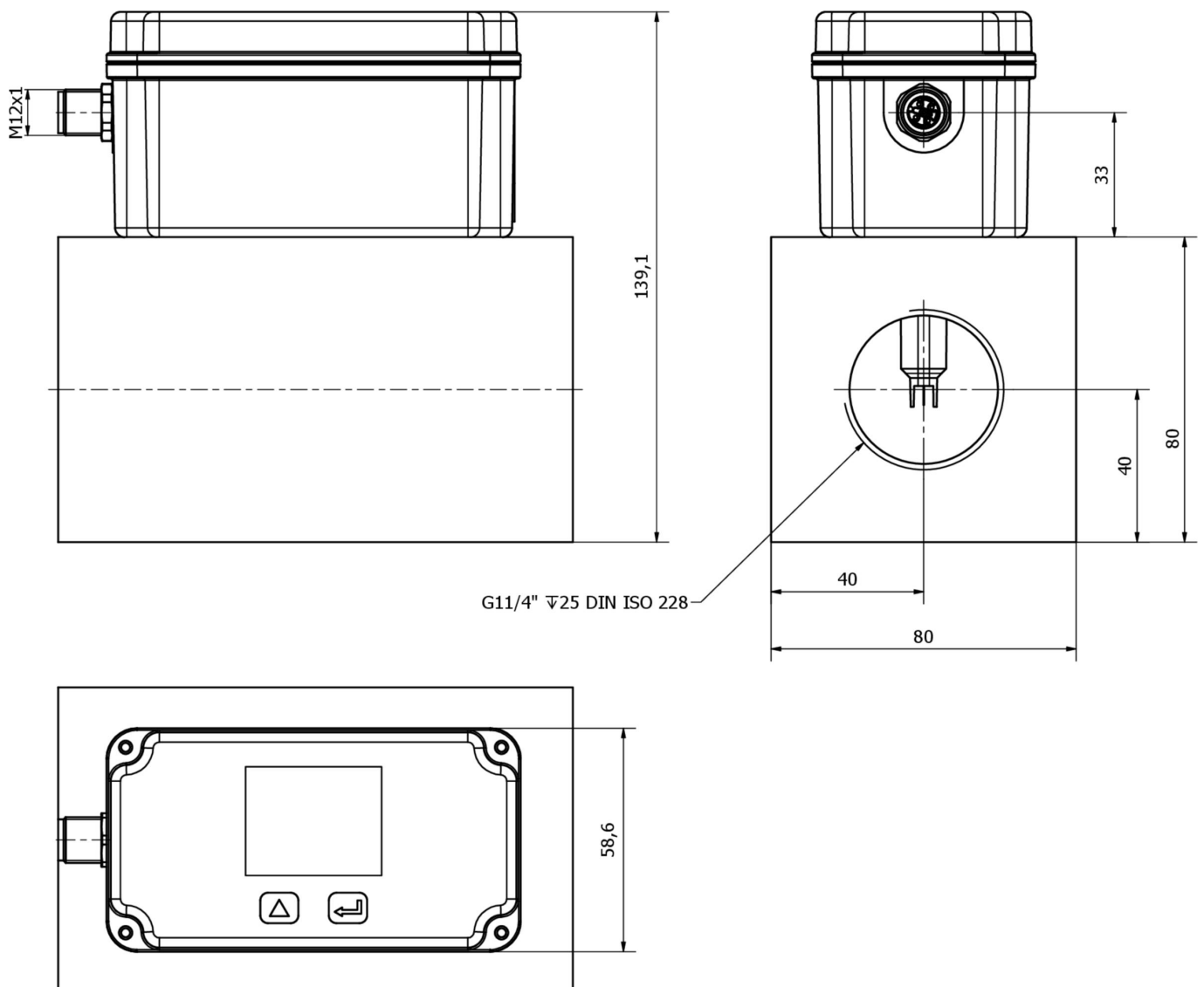|	
ETIM 8	EC002580 Flow monitoring device

More

IPF Product Group	725 compressed air and leakage measurement
packaging dimensions	
gross weight	
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

Dimensional drawing

M12x1

139,1

G11/4" ⎓25 DIN ISO 228

33

40

80

40

80

58,6

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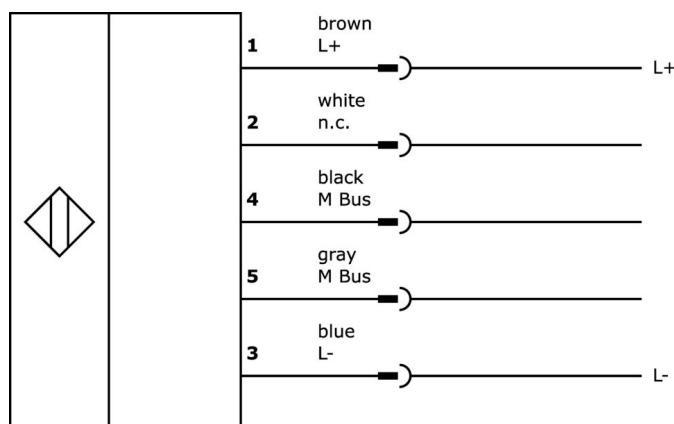
Extract accessories program

VK205621

Connection cable, 2m, M12 Female (socket) 5pin Angular, Free conductor end, 5x0.34mm², PUR (Polyurethane), Ø6mm, 60V, -25-90°C, IP67, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-free

VK205625

Connection cable, 2m, M12 Female (socket) 5pin Straight, Free conductor end, 5x0.34mm², PUR (Polyurethane), Ø6mm, 60V, -25-90°C, IP67, Shielded, Suitable for trailing chain and torsion resistant, Oil and cooling lubricants, Welding area, Silicone-...

VK030F28

Connection cable, 0.3m, M12 socket 5-pin straight, M12 connector 5-pin straight, 5-core, PUR (polyurethane), suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK060F28

Connection cable, 0.6m, M12 socket 5-pin straight, M12 connector 5-pin straight, 5-core, PUR (polyurethane), suitable for trailing chain and torsion resistant, oils and cooling lubricants, welding area, silicone-free

VK003021

Cable socket, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

VK003025

Cable socket, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 60V, -25-90°C, M12 Female (socket) 5pin, IP67, PBT

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.

I Any software, drivers or IODD files that may be required to operate your device can be downloaded free of charge from our homepage: www.ipf-electronic.com