

SL930024

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, Ethernet PoE



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
Type of interface connection	Plug-in connection M12
Setting procedure	Parameterization
Coding of interface connection	X-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	8
Supported communication interface	Ethernet
Operating voltage (DC)	12 - 36 V
Optional: PoE (Power over Ethernet)	Yes
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

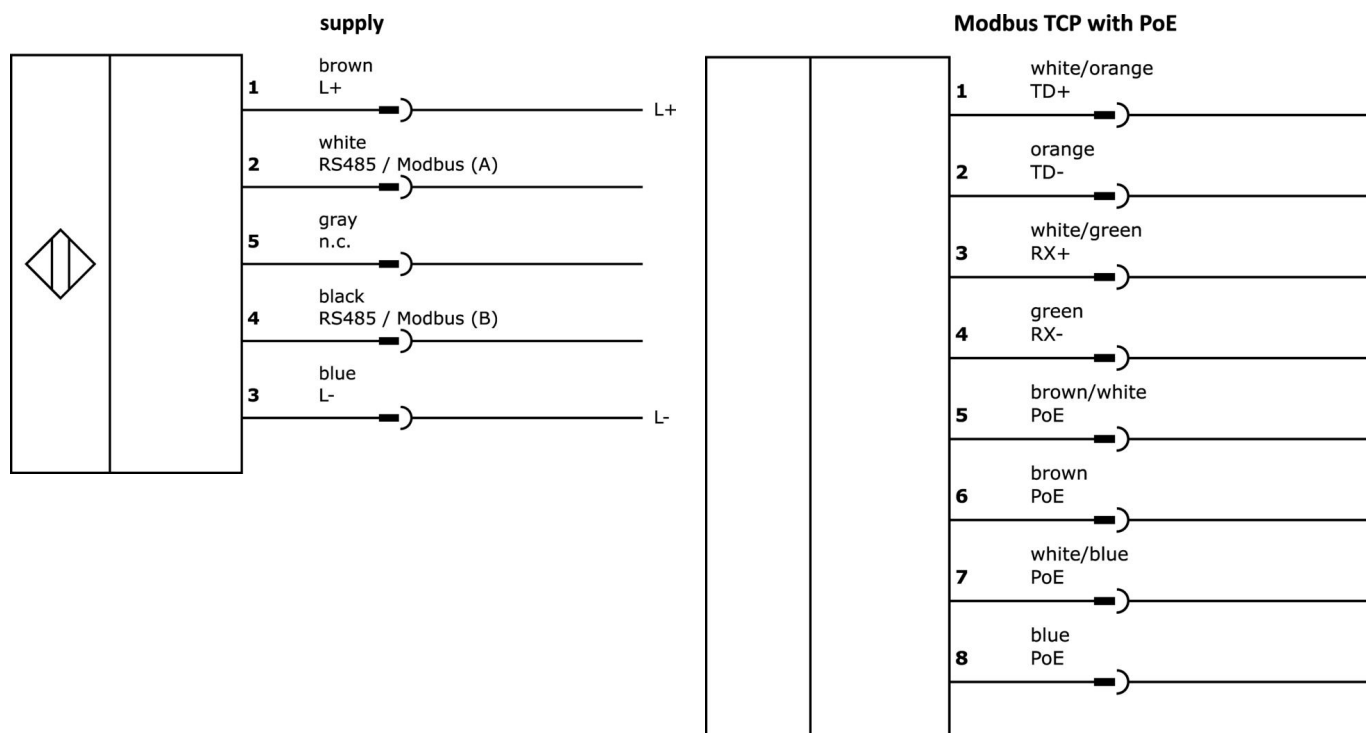
Classification

ETIM 8	EC002580 Flow monitoring device
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More

IPF Product Group	725 compressed air and leakage measurement
packaging dimensions	290 x 195 x 110 mm
gross weight	2481 g
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



Technical drawing of the G1 1/4 inch 228 valve, showing three views: front, top, and side.

Front View (Left): Shows the main body of the valve. The overall width is 135 mm. The distance between the two mounting flanges is 105,5 mm. The height of the main body is 58,5 mm. The mounting flanges are labeled M12x1.

Top View (Right): Shows the top of the valve. The overall width is 80 mm. The distance between the two mounting flanges is 40 mm. The height of the main body is 40 mm. The mounting flanges are labeled M12x1. The overall height of the valve is 59,1 mm. The distance between the top of the main body and the top of the mounting flanges is 33 mm.

Side View (Bottom): Shows the side of the valve. The overall width is 135 mm. The distance between the two mounting flanges is 105,5 mm. The height of the main body is 58,5 mm. The mounting flanges are labeled M12x1.

Dimensions:

- Overall width: 135 mm
- Distance between mounting flanges: 105,5 mm
- Height of main body: 58,5 mm
- Overall height: 59,1 mm
- Distance between top of main body and top of mounting flanges: 33 mm
- Distance between mounting flanges (top view): 40 mm
- Height of main body (top view): 40 mm
- Overall width (top view): 80 mm
- Mounting flanges: M12x1

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-...

VK108F28



Data cable, Connection cable, 1m,
M12 Male (connector) 8pin
Straight, X-coding, RJ45 Male
(connector) 8pin Straight, 8x0.
14mm², Category 5E, -40-75°C,
TPU, Shielded

VKB08F28



Data cable, Connection cable,
20m, M12 Male (connector) 8pin
Straight, X-coding, RJ45 Male
(connector) 8pin Straight, 8x0.
14mm², Category 5E, -40-75°C,
TPU, Shielded

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

/ 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.

/ 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