

SL98E269

Flow sensors • Consumption measurement for compressed air

Sensor flow, air, calorimetric, G 1/2", 18-36V DC, 4-20mA, screw connection 11-pin, plastic PC, pressure resistance 50bar, with display, parameterization, Ethernet



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

Number of switching outputs	1
Display	LED display
Type of switching function	Normally open contact (NO)
Type of analog output	4 - 20mA
Type of electrical connection	Clamped terminal connection
Type of switching output	Relay contact
Rated switching current	150 mA
Setting procedure	Parameterization
Coding of interface connection	X-coded
Short-circuit protection	Yes
No-load current	140 mA
Number of pins	11
Switching voltage	48 V
Reverse polarity protection	Yes
Measurement principle	calorimetric
Number of pins of interface connection	8
Supported communication interface	Ethernet Modbus RTU
Operating voltage (DC)	18 - 36 V
Measuring accuracy	± 1.5 % of measuring range ± 0.3 % of measuring range end

Mechanical features

Type of process connection	G1/2 inch
Design	Cuboid
Pressure resistance	50 bar
Probe length	220 mm
Medium temperature	-40 - 180 °C
Degree of protection (IP)	IP67
Housing material	Aluminum
Sensing element material	Stainless steel 1.4301
Measuring range flow velocity	,18 - 92,7 m/s
Ambient temperature	-20 - 80 °C

Other features

Reference medium / object	Air
Version	Insertion sensor
ardTE00_Anwendungen	Pneumatik-Anwendungen

Classification

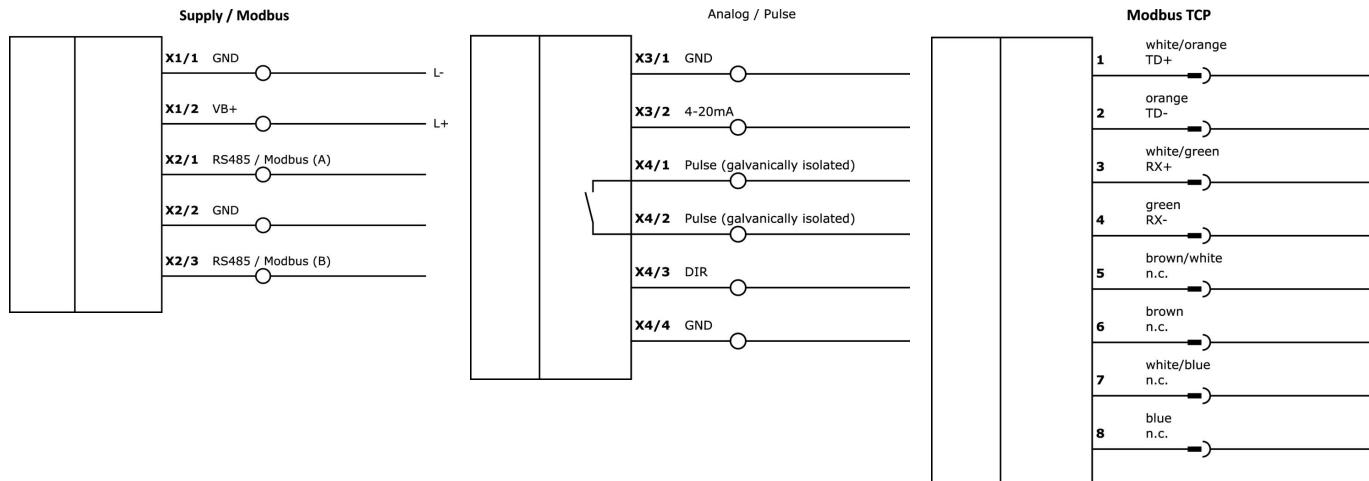
ETIM 8	EC002580 Flow monitoring device
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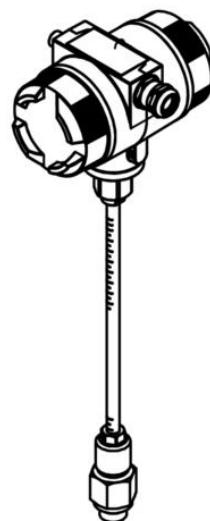
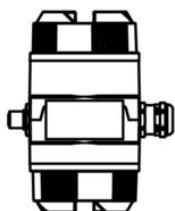
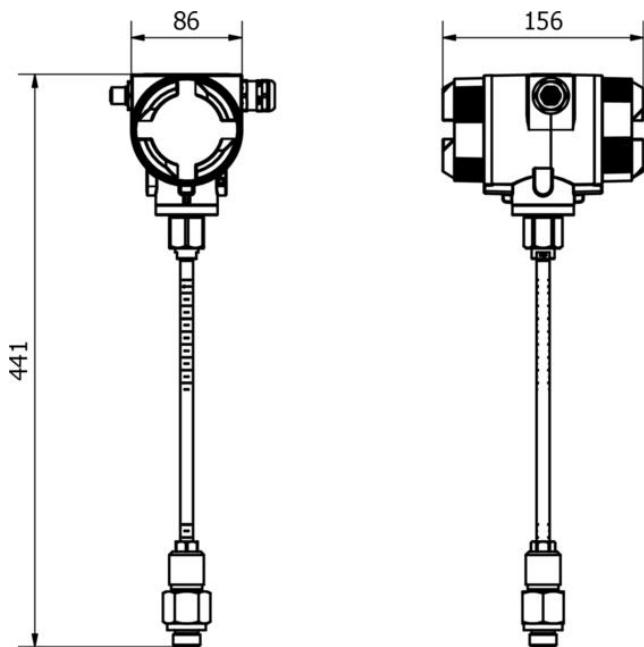
More

IPF Product Group	725 compressed air and leakage measurement
packaging dimensions	580 x 210 x 195 mm
gross weight	2880 g
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Important notes

I For pressure > 10 bar - order high-pressure safety device additionally

Connection

Dimensional drawing**Extract accessories program****VK205621**

Connection cable, 2m, M12
Female (socket) Spin Angular, Free
conductor end, $5 \times 0.34 \text{ mm}^2$, 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) Spin Straight, Free
conductor end, $5 \times 0.34 \text{ mm}^2$, PUR
(Polyurethane), Ø6mm, 60V, -25-
90°C, IP67, Shielded, Suitable for
trailing chain and torsion resistant,
Oil and cooling lubricants, Welding
area, Silicone-...

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