

## SL910026

### Flow sensors • Consumption measurement for compressed air

Sensor flow, air, calorimetric, 179x75x475mm, R 3/4", 12-36V DC, 4-20mA, M12 plug connector 5-pin, plastic PC, pressure resistance 16bar, with display, parameterization, Ethernet



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

Display	LED display
Type of analog output	4 - 20mA
Type of electrical connection	Connector M12
Type of interface connection	Plug-in connection M12
Setting procedure	Parameterization
Coding of interface connection	X-coded
No-load current	120 mA
Number of pins	5
Measurement principle	calorimetric
Supported communication interface	Ethernet   RS485
Operating voltage (DC)	18 - 36 V
ardSOCA_ElektrischerAnschluss	M12 5-pin plug connector
ardSOCA_Betriebsspannung	18-36VDC
ardTEEL_Schutzfunktionen	Reverse polarity protection   Short circuit protection

**Mechanical features**

Type of process connection	R3/4 inch
Design	Cuboid, integrated measuring section
Width	475 mm
Pressure resistance	16 bar
Height	179.2 mm
Length	75 mm
Medium temperature	-30 - 80 °C
Degree of protection (IP)	IP65
Housing material	Plastic PC
Sensing element material	Stainless steel 1.4301
Measuring range flow volume	0 - 2916,67 l/min
Measuring range flow velocity	0,18 - 185 m/s
Ambient temperature	-20 - 70 °C
ardSOCA_Abmessungen	75x475mm

**Other features**

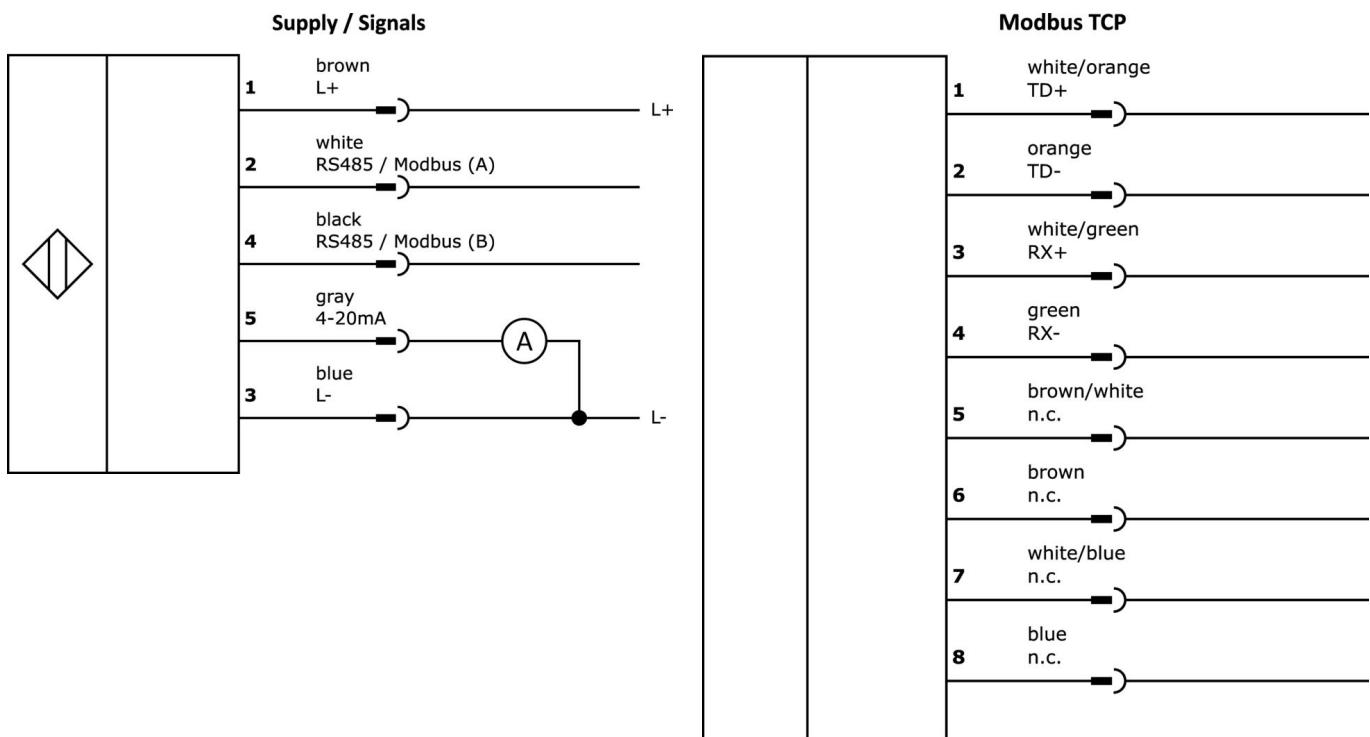
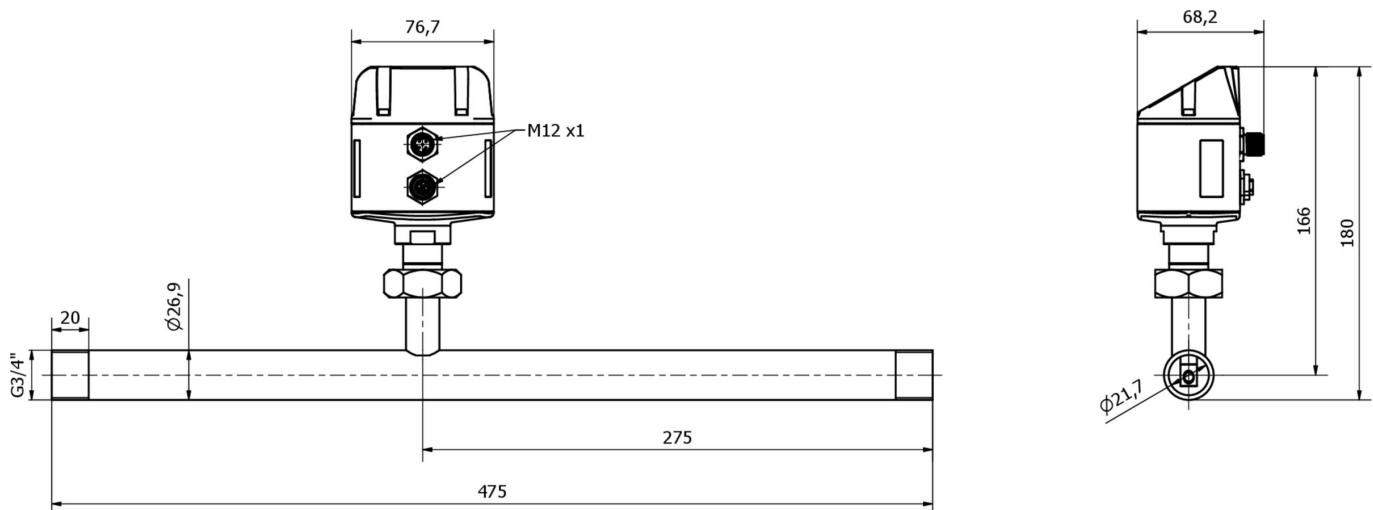
Reference medium / object	Air
ardTE00_Anwendungen	Pneumatic applications

**Classification**

ETIM 8
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**More**

IPF Product Group	725 compressed air and leakage measurement
packaging dimensions	500 x 170 x 235 mm
gross weight	1546 g
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

**Connection****Dimensional drawing**

## Extract accessories program

## VK205621



Connection cable, 2m, M12  
Female (socket) 5pin Angular, Free  
conductor end, 5x0.34mm<sup>2</sup>, 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, 5x0.34mm<sup>2</sup>, 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

## VK108F28



Data cable, Connection cable, 1m,  
M12 Male (connector) 8pin  
Straight, X-coding, RJ45 Male  
(connector) 8pin Straight, 8x0.  
14mm<sup>2</sup>, Category 5E, -40-75°C,  
TPU, Shielded

## VKA8F28



Data cable, connection cable,  
15m, M12 connector 8-pin  
straight, X-coding, RJ45 connector  
8-pin straight, 8x0.14mm<sup>2</sup>,  
category 6A (IEC), -25-85°C, TPU,  
shielded

## AS000015



Screw plug, M32x1.5, Aluminum,  
up to 16bar

## AS000016



Screw plug, M32x1.5, stainless  
steel

## BY000002



IIoT gateway, master module,  
25x139x110mm, RS485, CAN, 6x  
DI/DO, 4x 0-10V / 4-20mA, USB,  
terminal, IP20

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](http://www.ipf-electronic.com)