

## SL910020

### Flow sensors • Consumption measurement for compressed air

Sensor flow, air, calorimetric, 179x75x475mm, R 3/4", 12-36V DC, 1x relay contact NO, 4-20mA, M12 plug connector 5-pin, plastic PC, pressure resistance 16bar, with display, parameterization, RS-485



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                                                         |
| Number of switching points        | 2                                                         |
| Display                           | LED 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                                          |
| Short-circuit protection          | Yes                                                       |
| No-load current                   | 120 mA                                                    |
| Number of pins                    | 5                                                         |
| Switching voltage                 | 48 V                                                      |
| Reverse polarity protection       | Yes                                                       |
| Measurement principle             | calorimetric                                              |
| Supported communication interface | RS485                                                     |
| 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    | 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 | ,18 - 185 m/s                        |
| Ambient temperature           | -20 - 70 °C                          |

## Other features

|                           |                       |
|---------------------------|-----------------------|
| Reference medium / object | Air                   |
| ardTE00_Anwendungen       | Pneumatik-Anwendungen |

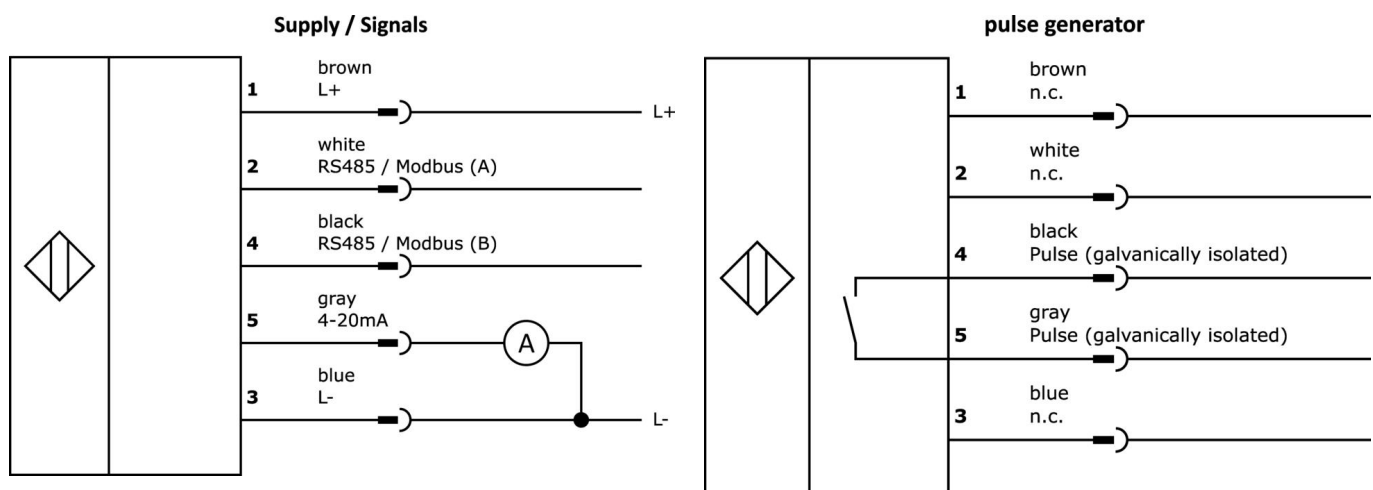
## Classification

|        |                                 |
|--------|---------------------------------|
| ETIM 8 | EC002580 Flow monitoring device |
|--------|---------------------------------|

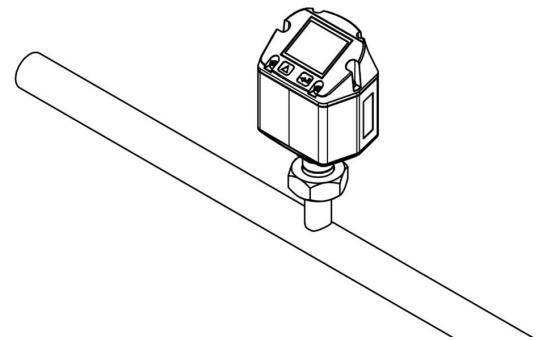
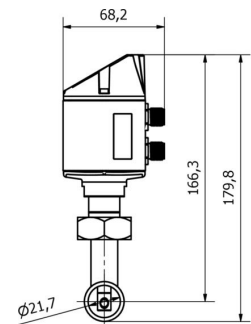
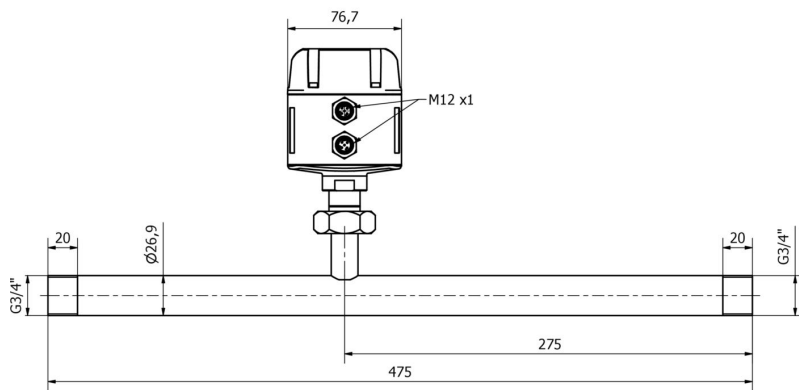
## More

|                       |                                            |
|-----------------------|--------------------------------------------|
| IPF Product Group     | 725 compressed air and leakage measurement |
| packaging dimensions  | 500 x 170 x 235 mm                         |
| gross weight          | 1543 g                                     |
| Customs tariff number | 90268020                                   |
| WEEE number           | 40951076                                   |
| Reach-compliant       | Yes                                        |
| RoHS-compliant        | Yes                                        |

## Connection

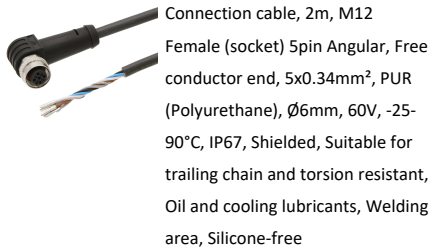


## Dimensional drawing

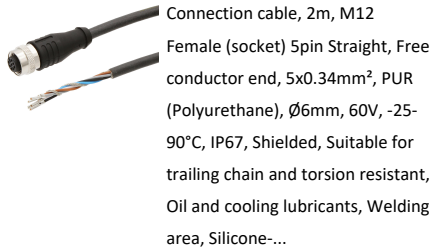


## Extract accessories program

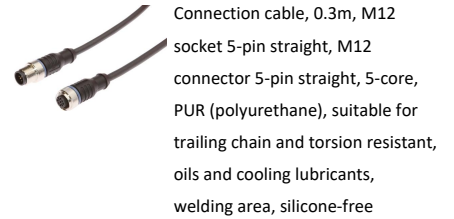
### VK205621



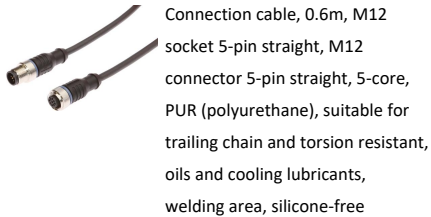
### VK205625



### VK030F28



### VK060F28



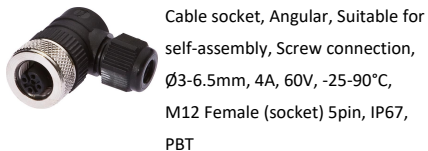
### AS000015



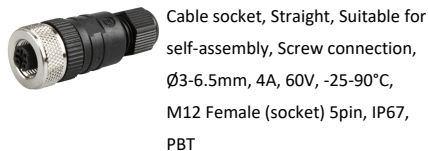
### AS000016



### VK003021



### 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.

**/** 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)