

SL20F001

Flow sensors • Sensors for air

Sensor flow, air, calorimetric, Ø20mm 76lang, 24V DC, PNP NO, cable tail 2m silicone, PBT, manual setting

including Holder, Screwdriver



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 condition for each medium can be derived from the temperature difference obtained. Applications for these sensors include monitoring cooling systems, ventilation systems, dry running of pumps and monitoring the presence of liquid or gas flows.

Electrical features

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|-------------------------------|-------------------------------------|
| Response/decay time | 2000 ms |
| Number of switching outputs | 1 |
| Display | LED display |
| Type of switching function | Normally open contact (NO) |
| Type of electrical connection | Cable |
| Type of switching output | PNP |
| Rated switching current | 200 mA |
| Readiness delay | 40000 ms |
| Setting procedure | Manual adjustment Potentiometer |
| No-load current | 70 mA |
| Voltage drop | 2.5 V |
| Measurement principle | calorimetric |
| Operating voltage (DC) | 19,2 - 28,8 V |
| ardSOCA_ElektrischerAnschluss | Cable tail 3-core 2m |
| ardSOCA_Betriebsspannung | 19-29VDC |
| ardTEEL_Temperaturgradient | 200K/min |
| ardTEEL_Schutzfunktionen | Verpolungsschutz Kurzschlusschutz |

Mechanical features

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|--|-------------------------------------|
| Number of cores | 3 |
| Conductor cross-section | 0.34 mm ² |
| Type of process connection | smooth |
| Design | Cylinder plain |
| Diameter | 20 mm |
| Cable length | 2 m |
| Length | 76 mm |
| Medium temperature | -20 - 70 °C |
| Degree of protection (IP) | IP67 |
| Housing material | PBT |
| Material of cable sheath | Silicone |
| Measuring range flow velocity | 0,5 - 15 m/s |
| Ambient temperature | -20 - 70 °C |
| Measuring range Flow velocity in air | 0,5 - 15 m/s |
| ardSOCA_Abmessungen | Ø20mm, 76mm long |
| Line diameter | 5.1 mm |
| ardTEME_WerkstoffeMedienberuehrendeTeile | Kunststoff (PBT) Kunststoff (PUR) |

Other features

| | |
|---------------------------|---------------------------------|
| Suitable for | Air nicht explosionsfähige Gase |
| Reference medium / object | Air |

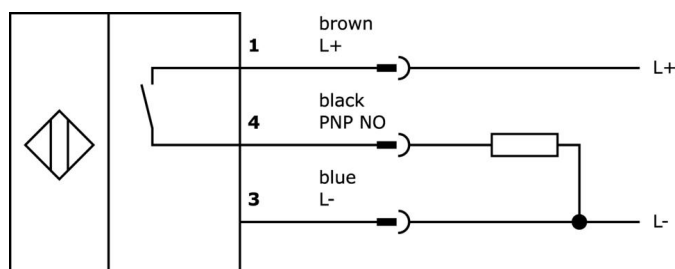
Classification

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| ETIM 8 |
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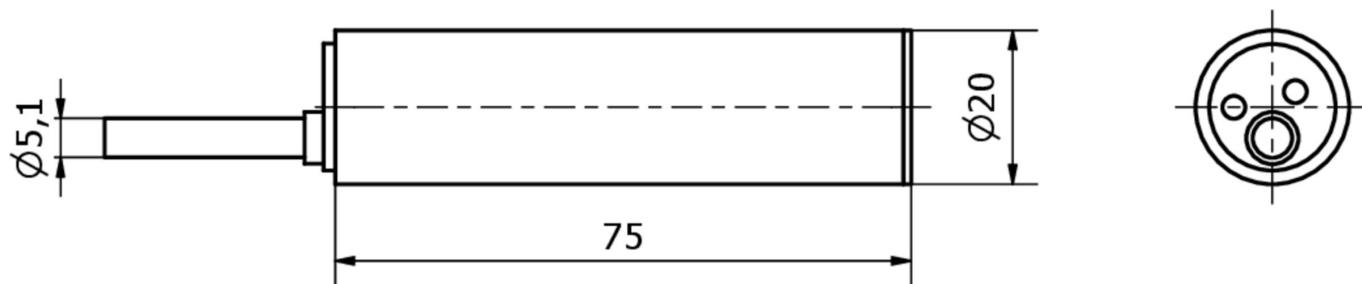
More

| | |
|-----------------------|------------------|
| IPF Product Group | 300 flow sensors |
| packaging dimensions | 121 x 76 x 50 mm |
| gross weight | 160 g |
| Customs tariff number | 90268020 |
| WEEE number | 40951076 |
| Reach-compliant | Yes |
| RoHS-compliant | Yes |

Connection



Dimensional drawing



Extract accessories program

AY000141



Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

VK003026



Cable connector, Angular, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

VK003028



Cable connector, Straight, Suitable for self-assembly, Screw connection, Ø3-6.5mm, 4A, 240V, -25-90°C, M12 Male (connector) 4pin, IP67, PBT

AS000006



accessories flow, Collar, Ø20mm, Plastic

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.