

SL454900

Flow sensors • Sensors for air

sensor flow, Air, Calorimetric, 78x160x50mm, G1 inch, 230V AC, Relay contact Change-over contact (NO/NC), Cable 2m PVC, PBT, Pressure resistance 3bar

including 1x Screwdriver



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

Response/decay time	30000ms
Display	LED display
Type of switching function	Change-over contact (NO/NC)
Type of electrical connection	Cable
Type of switching output	Relay contact
Rated switching current	4000mA
Readiness delay	90ms
Adjustable responding value for flow for gases	0,5 - 30m/s
No-load current	80mA
Line diameter	5mm
Measuring principle of flow	Calorimetric
Operating voltage (AC 50Hz)	230V

Mechanical features

Type of process connection	G1 inch
Design	Cuboid
Width	50mm
Pressure resistance	3bar
Thread length	107mm
Height	78mm
Cable length	2m
Length	160mm
Medium temperature	-20 - 80°C
Degree of protection (IP)	IP67
Housing material	PBT
Material of cable sheath	PVC
Sensing element material	Stainless steel 1.4305
Measuring range flow velocity	,5 - 30m/s
Ambient temperature	-20 - 70°C

Other features

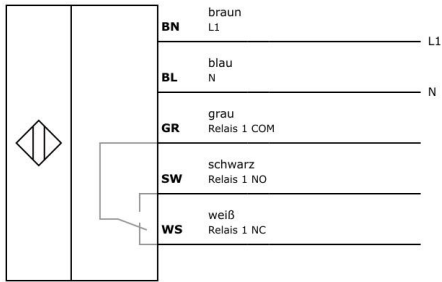
Suitable for liquids	No
Suitable media	Gases
For pneumatic applications	Yes
Reference medium / object	Air
Ambient temperature	-20 - 70°C

Classification

ETIM 8	EC002580 Flow monitoring device
eClass 7.0	27371815
eClass 7.1	27371815
eClass 8.0	27371815
eClass 9.0	27371815
eClass 9.1	27371815

More

IPF Product Group	300 flow sensors
packaging dimensions	210 x 138 x 95 mm
gross weight	740 g
Customs tariff number	90268020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection**Installation**

Mounting / installation may only be carried out by a qualified electrician!

Disposal**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.

For suitable connection and mounting accessories, please refer to our website www.ipf-electronic.com.