

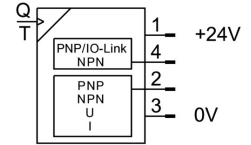
Air flow sensor SFAW-100-TG1-E-PNLK-PNVBA-M12

FESTO

Part number: 8036877



Data sheet



Feature	Value
Type code	SFAW
Symbol	00995566
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
KC characters	KC EMC
Note on materials	RoHS-compliant
Measured variable	Flow rate Temperature
Flow direction	Unidirectional P1 -> P2
Method of measurement	Flow rate: vortex Temperature: PT1000
Flow measuring range start value	5 l/min
Flow measuring range end value	100 l/min
Operating pressure	0 bar ... 12 bar
Information on operating pressure	Max. 12 bar at 40°C Max. 6 bar at 100 °C
Operating medium	Liquid media Water Neutral liquids
Information on operating and pilot media	Media with a kinematic viscosity = 1.8 mm ² /sec. [cSt]. Compatibility of the media with the substances that come into contact with the media must be ensured.
Temperature of medium	0 °C ... 90 °C
Ambient temperature	0 °C ... 50 °C
Nominal temperature	23 °C
Accuracy of flow rate	±2 % FS for flow rate ≤ 50 % FS ±3 % o.m.v. for flow rate >= 50 %FS
Accuracy of temperature in ± °C	2 °C
Repetition accuracy of flow rate value	< ±0.5 % FS for flow rate ≤ 50 % FS < ±1 % o.m.v. for flow rate >= 50 %FS
Temperature co-efficient margin in ± %FS/K	Typ. ±0.05% FS/K
Switching output	2 x PNP or 2 x NPN switchable
Switching function	Window comparator Threshold value comparator Freely programmable
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA

Feature	Value
Analog output	0 - 10 V 4 - 20 mA 1 - 5 V
Flow characteristic curve, start value	0 l/min
Flow characteristic curve, end value	100 l/min
Max. load resistance of current output	500 Ohm
Min. load resistance of voltage output	15 kOhm
Short-circuit protection	yes
Overload protection	Available
Protocol	IO-Link®
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile	Smart sensor profile
IO-Link®, function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, SIO mode support	Yes
IO-Link®, port class	A
IO-Link®, process data width OUT	0 Byte
IO-Link®, process data width IN	3 Byte
IO-Link®, process data content IN	1 bit BDC (volume monitoring) 14 bit PDV (flow measurement) 2 bit BDC (flow monitoring)
IO-Link®, service data contents IN	32 bit volume measurement
IO-Link®, minimum cycle time	5 ms
IO-Link®, data memory required	500 byte
DC operating voltage range	18 V ... 30 V
Reverse polarity protection	for all electrical connections
Electrical connection	5-pin A-coded M12x1 Plug, straight
Max. cable length	20 m for IO-Link® operation 30 m
Mounting position	Any
Fluid connector	Internal thread G1
Product weight	400 g
Housing material	PA-reinforced
Materials in contact with the media	EPDM (peroxide) ETFE Stainless steel PA6T/6I-reinforced
Displayable unit(s)	US gal US gal/min cft cft/min l l/h l/min m ³ °C °F
Degree of protection	IP65
Corrosion resistance class (CRC)	3 - High corrosion stress