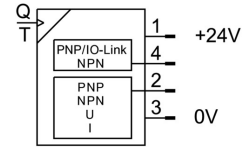


Air flow sensor SFAW-32T-TG34-E-PNLK-PNVBA-M12

FESTO

Part number: 8036874



Data sheet

Feature	Value
Type code	SFAW
KC characters	KC EMC
Symbol	00995566
Certification	c UL us - Listed (OL) RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
Note on materials	RoHS-compliant
Measured variable	Temperature Flow rate
Flow direction	P1 -> P2 Unidirectional
Method of measurement	Flow rate: vortex Temperature: PT1000
Flow measuring range start value	1.8 l/min
Flow measuring range end value	32 l/min
Temperature measuring range start value	0 °C
Temperature measuring range end value	90 °C
Operating pressure	0 bar ... 12 bar
Information on operating pressure	Max. 6 bar at 100 °C Max. 12 bar at 40°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	±3 % o.m.v. for flow rate ≥ 50 %FS ±2 % FS for flow rate ≤ 50 % FS
Accuracy of temperature in ± °C	2 °C
Repetition accuracy of flow rate value	< ±1 % o.m.v. for flow rate ≥ 50 %FS < ±0.5 % FS 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

Feature	Value
Switching function	Window comparator Freely programmable Threshold value comparator
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA
Analog output	0 - 10 V 4 - 20 mA 1 - 5 V
Flow rate curve start value	0 l/min
Flow rate curve end value	32 l/min
Temperature characteristic curve start value	0 °C
Temperature characteristic curve end value	100 °C
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	Diagnostics Binary data channel (BDC) Teach channel Process data variable (PDV) Identification
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	5 Byte
IO-Link®, process data content IN	14 bit PDV (flow measurement) 2 bit BDC (flow monitoring) 1 bit BDC (temperature monitoring) 14 bit PDV (temperature measurement) 1 bit BDC (volume 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	A-coded M12x1 Plug, straight 5-pin
Max. cable length	20 m for IO-Link® operation 30 m
Mounting position	Any
Fluid connector	Internal thread G3/4
Product weight	530 g
Housing material	PA-reinforced
Materials in contact with the media	Stainless steel PA6T/6I-reinforced ETFE EPDM (peroxide)

Feature	Value
Displayable unit(s)	cft/min l/h l l/min m3 cft US gal/min °F °C US gal
Degree of protection	IP65
Corrosion resistance class (CRC)	3 - High corrosion stress