

Flow sensor SFAM

Part number: 563796

FESTO



Data sheet

Feature	Value
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Explosion prevention and protection	Zone 2 (ATEX) Zone 22 (ATEX)
Note on materials	RoHS-compliant
Flow direction	Unidirectional From left to right From right to left
Pressure measuring range initial value	0 MPa 0 bar 0 psi
Pressure measuring range end value	1.6 MPa 16 bar 232 psi
Flow measuring range start value	10 l/min...150 l/min
Flow measuring range end value	1000 l/min...15000 l/min
Temperature measuring range start value	0 °C
Temperature measuring range end value	50 °C
Operating pressure	1.6 MPa 16 bar 232 psi
Overload pressure	2 MPa 20 bar 290 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Nitrogen
Temperature of medium	0 °C...50 °C
Ambient temperature	0 °C...50 °C
Nominal temperature	23 °C
Accuracy of flow rate	± (3% o.m.v. + 0.3% FS)
Accuracy of temperature in ± °C	5 °C

Feature	Value
Zero point repetition accuracy in ± %FS	0.2 %FS
Repetition accuracy margin in ± %FS	0.8 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Temperature co-efficient margin in ± %FS/K	typ. 0. 1%FS/K
Pressure influence of margin in ±%FS/bar	0.5 %FS/b.
Flow characteristic curve, start value	0 l/min
Flow characteristic curve, end value	1000 l/min...15000 l/min
Temperature characteristic curve start value	0 °C
Temperature characteristic curve end value	100 °C
Output characteristic curve initial value	0 V 4 mA
End value output characteristic curve	10 V 20 mA
Max. load resistance of current output	500 Ohm
Min. load resistance of voltage output	10 kOhm...20 kOhm
Short-circuit protection	yes
Overload protection	Available
Protocol	IO-Link®
IO-Link, revision ID	V1.1
IO-Link, device profile	Function Extended identification Function Measurement data, standard resolution Function Multiple switching signal Firmware update Function Locator Function Product URI Function Teach single value Identification and diagnosis
IO-Link®, SIO mode support	Yes
IO-Link®, process data content IN	Pressure measured value 16 bit MDC Flow rate monitoring 2-bit SSC Flow rate measured value 16-bit MDC Flow rate monitoring 2-bit SSC Temperature measured value 16-bit MDC Temperature monitoring 2-bit SSC Volume / mass pulse 1 bit SSC
IO-Link®, service data contents IN	Volume / mass measured value 32-bit
IO-Link®, data memory required	0.5 byte
DC operating voltage range	15 V...30 V
Reverse polarity protection	for all electrical connections
Max. cable length	20 m for IO-Link® operation 30 m
Type of mounting	Line installation On service unit With wall/surface bracket
Mounting position	Any Horizontal
Pneumatic connection	Battery module G1/2 G1 G1 1/2 1/2 NPT 1 NPT 1 1/2 NPT
Product weight	600 g...2750 g
Display type	Illuminated LCD, multi-color
Degree of protection	IP60 IP65
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L