

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
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
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	100 °C
Operating pressure	1.6 MPa 16 bar 232 psi
Overload pressure	2 MPa 20 bar
Operating medium	Argon Compressed air as per ISO 8573-1:2010 [7:4:4] Carbon dioxide 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
Zero point repetition accuracy in ± %FS	0.2 %FS
Repetition accuracy margin in ± %FS	0.8 %FS

Feature	Value
Temperature co-efficient in $\pm$ %FS/K	0.05 %FS/K
Temperature co-efficient margin in $\pm$ %FS/K	typ. 0.1%FS/K
Pressure influence of margin in $\pm$ %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®, SIO mode support	Yes
IO-Link®, process data content IN	Current operating status 4 bit Monitoring the pressure drop at peak flow 1 bit SSC Monitoring the pressure drop at medium flow rate 1 bit SSC Monitoring the pressure stability in active operating status 1 bit SSC Monitoring of pressure stability in passive operating status 1 bit SSC Pressure measured value 16 bit MDC Flow rate monitoring 2-bit SSC Flow-Measured value 16 bit MDC Flow rate monitoring 2-bit SSC Monitoring the average flow rate 1 bit SSC Reference record unusable 1 bit Monitoring the peak flow rate 1 bit SSC Temperature measured value 16-bit MDC Temperature monitoring 2-bit SSC Volume / mass pulse 1 bit SSC Time monitoring of the active-static operating status 1 bit SSC
IO-Link®, service data contents IN	Volume / mass measured value 32-bit Pneumatic energy measurement 32 bit Pneumatic power measurement value 32 bit
IO-Link®, data memory required	1 KB
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	In-line installation On service unit With wall/surface bracket
Mounting position	Any Horizontal
Pneumatic connection	Manifold module G1/2 G1 G1 1/2 1/2 NPT 1 NPT 1 1/2 NPT
Product weight	600 g...2750 g
Display type	Multi-color backlit LCD
Degree of protection	IP65
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L