

Flow sensor SFAM

Part number: 563796

FESTO



Data sheet

Feature	Value
Approval	RCM c UL us - Listed (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
Note on materials	RoHS compliant
Flow direction	Unidirectional From left to right From right to left
Start value for pressure measuring range	0 MPa 0 bar 0 psi
End value for pressure measuring range	1.6 MPa 16 bar
Start value for flow rate measuring range	10 l/min...150 l/min
End value for flow rate measuring range	1000 l/min...15000 l/min
Temperature measurement start value	0 °C
Temperature measurement end value	100 °C
Operating pressure	1.6 MPa 16 bar 232 psi
Overload pressure	2 MPa 20 bar
Operating medium	Argon Compressed air to ISO 8573-1:2010 [7:4:4] Carbon dioxide Nitrogen
Media temperature	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 temperature in ± °C	5 °C
Repetition accuracy offset in ± %FS	0.2 %FS
Repetition accuracy span in ± %FS	0.8 %FS

Feature	Value
Temperature coefficient in $\pm$ %FS/K	0.05 %FS/K
Temperature coefficient span in $\pm$ %FS/K	typ. 0.1%FS/K
Pressure influence span 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 start value	0 V
Output characteristic curve end value	10 V 20 mA
Output characteristic curve starting value	4 mA
Max. load resistance current output	500 Ohm
Min. load resistance voltage output	10 kOhm...20 kOhm
Short circuit current rating	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 the pressure stability in passive operating status 1 bit SSC Pressure measured value 16 bit MDC Pressure monitoring 2 bit SSC Flow rate measurement 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 Measured temperature 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 IN	Volume/mass measured value 32 bit Pneumatic energy measurement 32 bit Pneumatic power measurement 32 bit
IO-Link, Data storage required	1 KB
Operational voltage range DC	15 V...30 V
Reverse polarity protection	For all electrical connections
Max. cable length	20 m with IO-Link® operation 30 M
Type of mounting	Inline installation On service unit Via 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	Illuminated LCD, multi-colour
Degree of protection	IP65
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L