

Flow sensor SFAM

Part number: 563796

FESTO



Data sheet

Feature	Value
Approval	RCM trademark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
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 232 psi
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	50 °C
Operating pressure	1.6 MPa 16 bar 232 psi
Overload pressure	2 MPa 20 bar 290 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] 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

Feature	Value
Repetition accuracy offset in $\pm$ %FS	0.2 %FS
Repetition accuracy span in $\pm$ %FS	0.8 %FS
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, 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 diagnostics
IO-Link, SIO-Mode support	Yes
IO-Link, Process data content IN	Pressure measured value 16 bit MDC Pressure 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 IN	Volume/mass measured value 32 bit
IO-Link, Data storage required	0.5 Byte
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	In-line installation On service unit Via wall/surface bracket
Mounting position	optional 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	IP60 IP65
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L