

# Flow sensor

## SFAM-90-10000L-M-2SV-M12

Part number: 573349

FESTO

For manifold mounting



## Data sheet

Feature	Value
Authorization	RCM Mark c UL us - Recognized (OL)
CE symbol (see declaration of conformity)	according to EU-EMV guideline in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing department	UL E322346
Materials note	Conforms to RoHS
Measured variable	Volume Volumetric flow rate
Direction of flow	Unidirectional From left to right
Measuring principle	Thermal
Measurement method	Heat Loss
Flow measurement range initial value	100 l/min
Flow measurement range final value	10,000 l/min
Operating pressure MPa	1.6 MPa
Working pressure	16 bar
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4] Nitrogen
Medium temperature	0 ... 50 °C
Ambient temperature	0 ... 50 °C
Nominal temperature	23 °C
Accuracy of flow rate	± (3% o.m.v. + 0,3% FS)
Repetition accuracy zero point in ± %FS	0.2 %FS
Repetition accuracy margin in ± %FS	0.8 %FS
Temperature co-efficient margin in ± %FS/K	typ. 0,1%FS/K
Pressure dependency margin in ± %FS/bar	0.5 %FS/b.
Switch output	2 x PNP or 2 x NPN switchable
Switching function	Window comparator or threshold value comparator, adjustable
Switching element function	N/C or N/O contact, switchable
Max. output current	100 mA
Analog output	0 - 10 V
Characteristic curve for flow rate initial value	0 l/min
Characteristic curve for flow rate final value	10,000 l/min
Output characteristic curve initial value	0 V
Output characteristic curve final value	10 V
Min. load resistance, voltage output	10 kOhm
Short circuit strength	Yes
Overload withstand capability	Available
Operating voltage range DC	15 ... 30 V
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M12x1, A-coded in accordance with EN 61076-2-101

<b>Feature</b>	<b>Value</b>
Electrical connection 1, number of pins/wires	5
Electrical connection 1, type of mounting	Screw lock
Max. line length	30 m
Mounting type	on service unit
Assembly position	Horizontal
Pneumatic connection	Manifold module
Product weight	1,500 g
Material housing	Aluminum die cast PA-reinforced
Type of display	Illuminated LCD, multicolored
Unit(s) that can be displayed	l l/min m <sup>3</sup> scf scfm
Setting options	Teach-In Via display and buttons
Protection against manipulation	PIN-Code
Threshold value setting range	1 ... 100 %
Hysteresis setting range	0 ... 90 %
Protection class	IP65
Pressure drop	< 100 mbar
Safety class	III
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L