

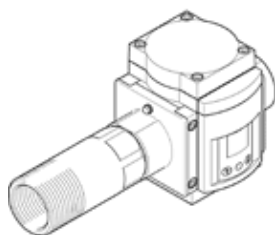
Flow sensor

SFAM-90-15000L-TG112-2SV-M12

Part number: 573357

FESTO

For threaded 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 | 150 l/min |
| Flow measurement range final value | 15,000 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 | 15,000 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 |

| Feature | Value |
|---|---|
| Electrical connection 1, number of pins/wires | 5 |
| Electrical connection 1, type of mounting | Screw lock |
| Max. line length | 30 m |
| Mounting type | Line installation |
| Assembly position | Horizontal |
| Pneumatic connection | G1 1/2 |
| Product weight | 2,750 g |
| Material housing | Aluminum die cast PA-reinforced |
| Type of display | Illuminated LCD, multicolored |
| Unit(s) that can be displayed | l l/min m ³ 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 |