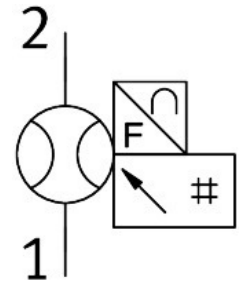


# Flow sensor

## SFAM-90-5000L-TG1-2SA-M12

Part number: 573352

FESTO



## Data sheet

| Feature                                      | Value                                                     |
|----------------------------------------------|-----------------------------------------------------------|
| Certification                                | RCM compliance mark<br>c UL us - Recognized (OL)          |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>As per EU RoHS directive       |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC<br>To UK RoHS instructions     |
| Certificate issuing authority                | UL E322346                                                |
| Note on materials                            | RoHS-compliant                                            |
| Measured variable                            | Volume<br>Volumetric flow rate                            |
| Flow direction                               | Unidirectional<br>From left to right                      |
| Measuring principle                          | Thermal                                                   |
| Method of measurement                        | Heat loss                                                 |
| Flow measuring range start value             | 50 l/min                                                  |
| Flow measuring range end value               | 5000 l/min                                                |
| Operating pressure                           | 1.6 MPa<br>16 bar<br>232 psi                              |
| Overload pressure                            | 2 MPa<br>20 bar<br>290 psi                                |
| Operating medium                             | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>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)                                   |
| Zero point repetition accuracy 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                                            |

| Feature                                        | Value                                                       |
|------------------------------------------------|-------------------------------------------------------------|
| Pressure influence of margin in $\pm\%$ FS/bar | 0.5 %FS/b.                                                  |
| Switching output                               | 2 x PNP or 2 x NPN switchable                               |
| Switching function                             | Window comparator or threshold value comparator, adjustable |
| Switching element function                     | N/C contact/N/O contact switchable                          |
| Max. output current                            | 100 mA                                                      |
| Analog output                                  | 4 - 20 mA                                                   |
| Flow characteristic curve, start value         | 0 l/min                                                     |
| Flow characteristic curve, end value           | 5000 l/min                                                  |
| Output characteristic curve initial value      | 4 mA                                                        |
| End value output characteristic curve          | 20 mA                                                       |
| Max. load resistance of current output         | 500 Ohm                                                     |
| Short-circuit protection                       | yes                                                         |
| Overload protection                            | Available                                                   |
| DC operating voltage range                     | 15 V...30 V                                                 |
| Reverse polarity protection                    | for all electrical connections                              |
| Electrical connection 1, connection type       | Plug                                                        |
| Electrical connection 1, connection technology | M12x1 A-coded as per EN 61076-2-101                         |
| Electrical connection 1, number of pins/wires  | 5                                                           |
| Electrical connection 1, type of mounting      | Screw-type lock<br>Compatible with screw lock rotatable     |
| Max. cable length                              | 30 m                                                        |
| Type of mounting                               | Line installation                                           |
| Mounting position                              | Horizontal                                                  |
| Pneumatic connection                           | G1                                                          |
| Product weight                                 | 2400 g                                                      |
| Housing material                               | Die-cast aluminum<br>PA-reinforced                          |
| Display type                                   | Illuminated LCD, multi-color                                |
| Displayable unit(s)                            | l<br>l/min<br>m3<br>scf<br>scfm                             |
| Setting options                                | Teach-in<br>Via display and pushbuttons                     |
| Protection against tampering                   | PIN code                                                    |
| Setting range threshold value                  | 1 %...100 %                                                 |
| Setting range hysteresis                       | 0 %...90 %                                                  |
| Degree of protection                           | IP65                                                        |
| Pressure drop                                  | 100 mbar                                                    |
| Protection class                               | III                                                         |
| Corrosion resistance class (CRC)               | 2 - Moderate corrosion stress                               |
| LABS (PWIS) conformity                         | VDMA24364-B1/B2-L                                           |