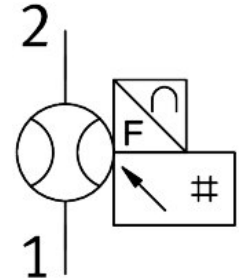


# Flow sensor SFAM-90-10000L-TG112-2SV-M12

Part number: 573355

**FESTO**



 General operating condition

## Data sheet

| Feature                                      | Value                                                     |
|----------------------------------------------|-----------------------------------------------------------|
| Symbol                                       | 00992242<br>00997566                                      |
| 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             | 100 l/min                                                 |
| Flow measuring range end value               | 10000 l/min                                               |
| Operating pressure                           | 1.6 MPa                                                   |
| Operating pressure                           | 16 bar                                                    |
| Operating pressure                           | 232 psi                                                   |
| Overload pressure                            | 2 MPa                                                     |
| Overload pressure                            | 20 bar                                                    |
| Overload pressure                            | 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                                         | 0 - 10 V                                                    |
| Flow characteristic curve, start value                | 0 l/min                                                     |
| Flow characteristic curve, end value                  | 10000 l/min                                                 |
| Output characteristic curve initial value             | 0 V                                                         |
| End value output characteristic curve                 | 10 V                                                        |
| Min. load resistance of voltage output                | 10 kOhm                                                     |
| 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                                             |
| Electrical connection 1, type of mounting             | Compatible with screw lock rotatable                        |
| Electrical connection for input 1, connection pattern | 00995383                                                    |
| Max. cable length                                     | 30 m                                                        |
| Type of mounting                                      | Line installation                                           |
| Mounting position                                     | Horizontal                                                  |
| Pneumatic connection                                  | G1 1/2                                                      |
| Product weight                                        | 2750 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                                           |