

# Air flow sensor SFAM-90-5000L-M-2SA-M12

Part number: 573346

**FESTO**



## Data sheet

| Feature                                    | Value                                                       |
|--------------------------------------------|-------------------------------------------------------------|
| Type code                                  | SFAM                                                        |
| KC characters                              | KC EMC                                                      |
| 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         |
| Certificate issuing authority              | UL E322346                                                  |
| Note on materials                          | RoHS-compliant                                              |
| Measured variable                          | Flow rate<br>Consumption                                    |
| Flow direction                             | Unidirectional<br>From left to right                        |
| Measuring principle                        | Thermal                                                     |
| Flow measuring range start value           | 50 l/min                                                    |
| Flow measuring range end value             | 5000 l/min                                                  |
| Operating pressure                         | 0 bar ... 16 bar                                            |
| 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                                              |
| Pressure influence of margin in ±%FS/bar   | 0.5 %FS/b.                                                  |
| Switching output                           | 2x PNP or 2x NPN adjustable                                 |
| Switching function                         | Window comparator or threshold value comparator, adjustable |
| Switching element function                 | N/C contact<br>N/O contact                                  |
| 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                                                     |

| Feature                          | Value                              |
|----------------------------------|------------------------------------|
| Short-circuit protection         | yes                                |
| DC operating voltage range       | 15 V ... 30 V                      |
| Reverse polarity protection      | for all electrical connections     |
| Electrical connection            | 5-pin<br>M12x1<br>Plug, straight   |
| Type of mounting                 | On service unit                    |
| Mounting position                | Horizontal                         |
| Pneumatic connection             | Battery module                     |
| Product weight                   | 1500 g                             |
| Housing material                 | Die-cast aluminum<br>PA-reinforced |
| Display type                     | Illuminated LCD blue               |
| Displayable unit(s)              | l<br>l/min<br>m3<br>scf<br>scfm    |
| Degree of protection             | IP65                               |
| Pressure drop                    | <40 mbar                           |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress      |