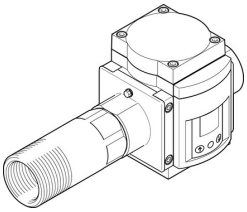
# Air flow sensor
# SFAM-90-15000L-TG112-2SV-M12

Part number: 573357



## 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 | 150 l/min |
| Flow measuring range end value | 15000 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 | 0 - 10 V |
| Flow characteristic curve, start value | 0 l/min |
| Flow characteristic curve, end value | 15000 l/min |
| Output characteristic curve initial value | 0 V |
| End value output characteristic curve | 10 V |
| Min. load resistance of voltage output | 10 kOhm |

| 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 | 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 blue |
| Displayable unit(s) | l<br>l/min<br>m3<br>scf<br>scfm |
| Degree of protection | IP65 |
| Pressure drop | <100 mbar |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |