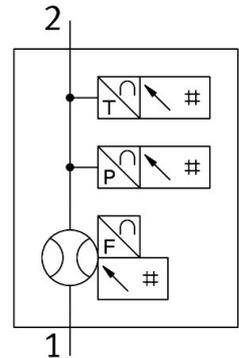


Flow sensor SFAM-62-1000L-TG12-PNLK-PNVBA-M12-EMD

Part number: 8187364

FESTO



Data sheet

| Feature | Value |
|--|--|
| Certification | RCM compliance mark |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Note on materials | RoHS-compliant |
| Flow direction | Unidirectional From left to right |
| Pressure measuring range initial value | 0 MPa 0 bar 0 psi |
| Pressure measuring range end value | 1.6 MPa 16 bar 232 psi |
| Flow measuring range start value | 10 l/min |
| Flow measuring range end value | 1000 l/min |
| Temperature measuring range start value | 0 °C |
| Temperature measuring range end value | 50 °C |
| Operating pressure | 1.6 MPa 16 bar 232 psi |
| Overload pressure | 2 MPa 20 bar 290 psi |
| Operating medium | Argon Compressed air as per ISO 8573-1:2010 [7:4:4] Carbon dioxide Nitrogen |
| Temperature of medium | 0 °C...50 °C |
| Ambient temperature | 0 °C...50 °C |

| Feature | Value |
|--|--|
| Nominal temperature | 23 °C |
| Accuracy of pressure value in ± %FS | 1.5 %FS |
| Accuracy of flow rate | ± (3% o.m.v. + 0.3% FS) |
| Accuracy of temperature in ± °C | 5 °C |
| Repetition accuracy of pressure value in ± %FS | 0.3 %FS |
| Zero point repetition accuracy in ± %FS | 0.2 %FS |
| Repetition accuracy margin in ± %FS | 0.8 %FS |
| Temperature co-efficient in ± %FS/K | 0.05 %FS/K |
| Temperature co-efficient margin in ± %FS/K | typ. 0. 1%FS/K |
| Pressure influence of margin in ±%FS/bar | 0.5 %FS/b. |
| Flow characteristic curve, start value | 0 l/min |
| Flow characteristic curve, end value | 1000 l/min |
| Temperature characteristic curve start value | 0 °C |
| Temperature characteristic curve end value | 100 °C |
| Output characteristic curve initial value | 0 V 4 mA |
| End value output characteristic curve | 10 V 20 mA |
| Max. load resistance of current output | 500 Ohm |
| Min. load resistance of voltage output | 20 kOhm |
| Short-circuit protection | yes |
| Overload protection | Available |
| Protocol | IO-Link® |
| IO-Link, revision ID | V1.1 |
| IO-Link, device profile | Firmware update Function Locator Function Product URI Function Quantity detection Identification and diagnosis Smart Sensor - SSP 4.1.3 |
| IO-Link, transmission rate | COM3 |
| IO-Link®, SIO mode support | Yes |
| IO-Link, port type | Class A |
| IO-Link, process data length output | 0 bit |
| IO-Link, process data length input | 96 bit |
| IO-Link®, process data content IN | Current operating status 4 bit Monitoring the pressure drop at peak flow 1 bit SSC Monitoring the pressure drop at medium flow rate 1 bit SSC Monitoring the pressure stability in active operating status 1 bit SSC Monitoring of pressure stability in passive operating status 1 bit SSC Monitoring the average flow rate 1 bit SSC Reference record unusable 1 bit Monitoring the peak flow rate 1 bit SSC Time monitoring of the active-static operating status 1 bit SSC |
| IO-Link®, service data contents IN | Volume / mass measured value 32-bit Pneumatic energy measurement 32 bit Pneumatic power measurement value 32 bit |
| IO-Link®, minimum cycle time | 1.5 ms |
| IO-Link®, data memory required | 1 KB |
| DC operating voltage range | 18 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 |
| Max. cable length | 20 m for IO-Link® operation 30 m |
| Type of mounting | Line installation |

| Feature | Value |
|----------------------------------|------------------------------------|
| Mounting position | Any |
| Pneumatic connection | G1/2 |
| Product weight | 600 g |
| Housing material | Die-cast aluminum PA-reinforced |
| Display type | Illuminated LCD, multi-color |
| Degree of protection | IP65 |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |