

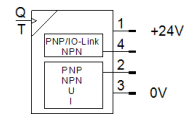
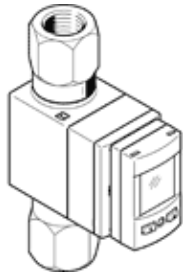
flow sensor

SFAW-100T-TG34-E-PNLK-PNVBA-M12

Part number: 8036876

FESTO

For measuring and monitoring flow rate, volume and temperature of liquid media, flow measuring range 100l/min.



Data sheet

| Feature | Value |
|--|--|
| Authorisation | RCM Mark c UL us - Listed (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC in accordance with EU RoHS directive |
| KC mark | KC-EMV |
| Materials note | Conforms to RoHS |
| Measured variable | Flow rate Temperature |
| Direction of flow | Unidirectional P1 -> P2 |
| Measurement method | Flow: vortex Temperature: PT1000 |
| Flow measurement range initial value | 5 l/min |
| Flow measurement range final value | 100 l/min |
| Temperature measuring range starting value | 0 °C |
| Temperature measuring range end value | 90 °C |
| Operating pressure | 0 ... 12 bar |
| Note on operating pressure | Max. 12 bar at 40°C Max. 6 bar at 100°C |
| Operating medium | Fluid media Water Neutral fluids |
| Note on operating and pilot medium | It must be ensured that the operating medium is compatible with the materials with which it is in contact. |
| Medium temperature | 0 ... 90 °C |
| Ambient temperature | 0 ... 50 °C |
| Nominal temperature | 23 °C |
| Accuracy of flow rate | ±2% FS for flow rate ≤ 50% FS ±3% of measured value for flow rate ≥ 50% FS |
| Accuracy of temperature in ± °C | 2 °C |
| Repetition accuracy of flow rate value | < ±0.5% FS for flow rate ≤ 50% FS < ±1% of measured value for flow rate ≥ 50% FS |
| Temperature co-efficient margin in ± %FS/K | typ. ±0,05%FS/K |
| Switch output | 2 x PNP or 2 x NPN switchable |
| Switching function | Window comparator Threshold value comparator Freely programmable |
| Switching element function | N/C or N/O contact, switchable |
| Max. output current | 100 mA |
| Analogue output | 0 - 10 V 4 - 20 mA 1 - 5 V |
| Characteristic curve for flow rate initial value | 0 l/min |

| Feature | Value |
|---|---|
| Characteristic curve for flow rate final value | 100 l/min |
| Temperature characteristic curve starting value | 0 °C |
| Temperature characteristic curve end value | 100 °C |
| Max. load resistance, current output | 500 Ohm |
| Min. load resistance, voltage output | 15 kOhm |
| Short circuit strength | Yes |
| Overload withstand capability | Available |
| Protocol | IO-Link |
| IO-Link, protocol | Device V 1.1 |
| IO-Link, profile | Smart sensor profile |
| IO-Link, function classes | Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel |
| IO-Link, communication mode | COM2 (38,4 kBaud) |
| IO-Link, SIO mode support | Yes |
| IO-Link, port type | A |
| IO-Link, process data width OUT | 0 Byte |
| IO-Link, process data width IN | 5 Byte |
| IO-Link, process data content IN | 1 bit BDC (temperature monitoring) 1 bit BDC (volume monitoring) 14 bit PDV (flow measured value) 14 bit PDV (temperature measured value) 2 bit BDC (flow monitoring) |
| IO-Link, Service data contents IN | 32-bit measured volume value |
| IO-Link, minimum cycle time | 5 ms |
| IO-Link, data memory required | 0.5 Kilobyte |
| Operating voltage range DC | 18 ... 30 V |
| Polarity protected | for all electrical connections |
| Electrical connection | 5-pin A-coded M12x1 Plug straight |
| Max. line length | 20 m with IO-Link operation 30 m |
| Assembly position | Any |
| Fluid connection | Female thread G3/4 |
| Product weight | 530 g |
| Material housing | PA-reinforced |
| Materials in contact with media | EPDM (perox.) ETFE Stainless steel PA6T/6I reinforced |
| Unit(s) that can be displayed | US gal US gal/min cft cft/min l l/h l/min m3 °C °F |
| Protection class | IP65 |
| Corrosion resistance classification CRC | 3 - High corrosion stress |