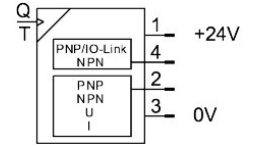


Flow sensor SFAW-100-TG34-E-PNLK-PNVBA-M12

Part number: 8036875

FESTO



Data sheet

| Feature | Value |
|--|---|
| Certification | RCM compliance mark c UL us - Listed (OL) |
| 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 |
| Measured variable | Flow rate Temperature |
| Flow direction | Unidirectional P1 -> P2 |
| Method of measurement | Flow rate: vortex Temperature: PT1000 |
| Flow measuring range start value | 5 l/min |
| Flow measuring range end value | 100 l/min |
| Operating pressure | 0 MPa...1.2 MPa 0 bar...12 bar 0 psi...174 psi |
| Information on operating pressure | max. 1.2 MPa (12 bar / 174 psi) at 40°C max. 0.6 MPa (6 bar / 87 psi) at 90°C |
| Overload pressure | 4 MPa 40 bar 580 psi |
| Operating medium | Liquid media Water Neutral liquids |
| Information on operating and pilot media | Media with a kinematic viscosity = 1.8 mm ² /sec. [cSt]. Compatibility of the media with the substances that come into contact with the media must be ensured. |
| Temperature of medium | 0 °C...90 °C |
| Ambient temperature | 0 °C...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 |

| Feature | Value |
|--|--|
| 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 |
| Switching output | 2 x PNP or 2 x NPN switchable |
| Switching function | Window comparator Threshold value comparator Freely programmable |
| Switching element function | N/C contact/N/O contact switchable |
| Max. output current | 100 mA |
| Analog output | 0 - 10 V 4 - 20 mA 1 - 5 V |
| Flow characteristic curve, start value | 0 l/min |
| Flow characteristic curve, end value | 100 l/min |
| Max. load resistance of current output | 500 Ohm |
| Min. load resistance of voltage output | 15 kOhm |
| Short-circuit protection | yes |
| Overload protection | Available |
| Protocol | IO-Link® |
| IO-Link®, protocol version | Device V 1.1 |
| IO-Link®, profile | Smart sensor profile |
| IO-Link®, function classes | Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel |
| IO-Link®, communication mode | COM2 (38,4 kBd) |
| IO-Link®, SIO mode support | Yes |
| IO-Link®, port class | A |
| IO-Link®, process data width OUT | 0 Byte |
| IO-Link®, process data width IN | 3 Byte |
| IO-Link®, process data content IN | 1 bit BDC (volume monitoring) 14 bit PDV (flow measurement) 2 bit BDC (flow monitoring) |
| IO-Link®, service data contents IN | 32 bit volume measurement |
| IO-Link®, minimum cycle time | 5 ms |
| IO-Link®, data memory required | 0.5 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 |
| Mounting position | Any |
| Fluid connector | Internal thread G3/4 |
| Product weight | 530 g |
| Housing material | PA-reinforced |
| Materials in contact with the media | EPDM (peroxide) ETFE Stainless steel PA6T/6I-reinforced |

| Feature | Value |
|----------------------------------|---|
| Displayable unit(s) | US gal US gal/min cft cft/min l l/h l/min m3 °C |
| Degree of protection | IP65 |
| Corrosion resistance class (CRC) | 3 - High corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |