flow sensor SFAW-100T-CS520-E-PNLK-PNVBA-M12

Part number: 8036886



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 ℃ |
| 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 ℃ |
| Repetition accuracy of flow rate value | < ±0.5% FS for flow rate <= 50% FS |
| | $\langle \pm 1\%$ 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 |



| Characteristic curve for flow rate final value 0.7 C | Feature | Value |
|--|---|---------------------------|
| Temperature characteristic curve end value | Characteristic curve for flow rate final value | 100 l/min |
| Temperature characteristic curve end value | Temperature characteristic curve starting value | 0 °C |
| Max. load resistance, current output Min. load resistance, voltage output Short circuit strength Ves Overload withstand capability Protocol OLink, protocol OLink, protocol OLink, protocol OLink, unction classes Binary Data Channels (BOC) Process Data Variable (PVV) Identification diagnosis Teach channel OLink, si Do mode support Ves OLink, process data width IN OLink, process data width IN OLink, process data width IN OLink, process data vident IN OLink, process data content IN OLInk, process data with IN OLInk, process data content IN OLInk, process data with | | 100 °C |
| Min. Load resistance, voltage output Min. Load resistance, voltage output Ner Short circuit strength Protocol Oreload withstand capability Available Protocol Ol-Link, protocol Ol-Link, protocol Ol-Link, proticol | | 500 Ohm |
| Short circuit strength | | 15 kOhm |
| Overload withstand capability Available Protocol 10-Link 10-Link, protocol Device V 1.1 10-Link, profile Smart sensor profile 10-Link, profile Binary Data Channels (BDC) 10-Link, number of the control of the control of diagnosis Teach channel 10-Link, communication mode COM2 (9.8 k lbaud) 10-Link, port type A 10-Link, port type A 10-Link, port type A 10-Link, process data width IN 5 Byte 10-Link, process data content IN 1 bit BDC (temperature monitoring) 1 bit BDC (solume monitoring) 1 bit BDC (who measured value) 1 bit BDC (who measured value) 2 bit BDC (flow monitoring) 1 bit BDC (who measured value) 2 bit BDC (flow monitoring) 10-Link, process data contents IN 32-bit measured volume value 10-Link, stan mony required 0.5 Kilotyte 10-Link, stan mony required 0.5 Kilotyte 10-Link, stan mony required 0.5 Kilotyte 10-Link, stan stantent stanten | | |
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| IO-Link, SIO mode support Yes | IO-Link communication mode | |
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| IO-Link, process data width OUT 5 Byte 10-Link, process data width IN 5 Byte 10-Link, process data width IN 1 bit BDC (temperature monitoring) 1 bit BDC (volume monitoring) 1 bit BDC (flow monitoring) 1 bit PDV (flow measured value) 2 bit BDC (flow monitoring) 1 bit BDC (flow monitoring monitoring 1 bit BDC (flow monitoring) 1 bit BDC (flow monitoring) 1 bit BDC (flow monitoring) 1 bit BDC (flow monitoring monitoring 1 bit BDC (flow monitoring) 1 bit BDC (flow monitor | | |
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| Corrosion resistance classification CRC 13 - High corrosion stress | Corrosion resistance classification CRC | 3 - High corrosion stress |