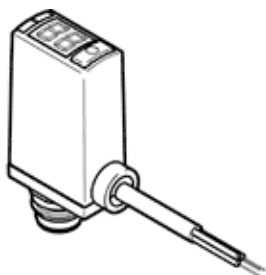


pressure sensor SPAE-V1R-PC10-PNLK-2.5K

Part number: 8025978

FESTO



Data sheet

| Feature | Value |
|--|---|
| Authorisation | RCM Mark c UL us - Recognized (OL) |
| CE mark (see declaration of conformity) | to EU directive for EMC in accordance with EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Certificate issuing department | UL E322346 |
| Materials note | Conforms to RoHS |
| Measured variable | Relative pressure |
| Measurement method | Piezoresistive pressure sensor with display |
| Pressure measuring range start value (MPa) | 0 MPa |
| Pressure measuring range, initial value | 0 bar |
| Pressure measuring range start value (psi) | 0 psi |
| Pressure measuring range end value (MPa) | -0.1 MPa |
| Pressure measuring range, final value | -1 bar |
| Pressure measuring range end value (psi) | -14.5 psi |
| Overload pressure | 0.5 MPa 5 bar |
| Overload pressure (psi) | 72.5 psi |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible |
| Medium temperature | 0 ... 50 °C |
| Ambient temperature | 0 ... 50 °C |
| Resolution of analogue/digital converter | 10 Bit |
| Accuracy, FS | 1.5 %FS |
| Repetition accuracy in ± %FS | 0.3 %FS |
| Temperature co-efficient in ± %FS/K | 0.05 %FS/K |
| Switch output | PNP/NPN, switchable |
| Switching function | Freely programmable |
| Switching element function | Normally closed contact Normally open contact Switchable |
| Switch-on time | 1 ms |
| Switch-off time | 1 ms |
| Max. output current | 100 mA |
| Indicating range, lower limit | 0 %FS |
| Indicating range, upper limit | 99 %FS |
| Short circuit strength | Yes |
| 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 |

| Feature | Value |
|---|--|
| 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 | 2 Byte |
| IO-Link, process data content IN | 14 bit PDV (pressure reading) 2 bit BDC (pressure monitoring) |
| IO-Link, minimum cycle time | 3 ms |
| IO-Link, data memory required | 0.5 Kilobyte |
| Operating voltage range DC | 18 ... 30 V |
| Polarity protected | for all electrical connections |
| Electrical connection | 3-core Cable Open end |
| Cable length | 2.5 m |
| Mounting type | Pin-type connection |
| Assembly position | Any |
| Pneumatic connection | Cartridge 10 mm |
| Product weight | 40 g |
| Material housing | PA-reinforced |
| Material sealing ring | FPM NBR |
| Type of display | LED display 2-digit |
| Unit(s) that can be displayed | %FS |
| Operating status display | Yellow LED |
| Setting options | IO-Link Teach-In Via display and buttons |
| Protection against manipulation | PIN-Code |
| Threshold value setting range | 1 ... 98 % |
| Protection class | IP40 |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress |
| PWIS conformity | VDMA24364-B2-L |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 4 |