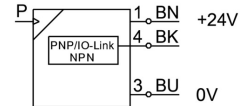


Pressure sensor SPA-E-B2R-PC10-PNLK-2.5K

Part number: 8025979

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|----------------------------------------------|-------------------------------------------------------|
| Symbol | 00995430 |
| Certification | RCM compliance mark c UL us - Recognized (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 |
| Certificate issuing authority | UL E322346 |
| Note on materials | RoHS-compliant |
| Measured variable | Relative pressure |
| Method of measurement | Piezoresistive pressure sensor with display |
| Pressure measuring range initial value | -0.1 MPa |
| Pressure measuring range initial value | -1 bar |
| Pressure measuring range initial value | -14.5 psi |
| Pressure measuring range end value | 0.1 MPa |
| Pressure measuring range end value | 1 bar |
| Pressure measuring range end value | 14.5 psi |
| Overload pressure | 0.5 MPa |
| Overload pressure | 5 bar |
| Overload pressure | 72.5 psi |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication possible |
| Temperature of medium | 0 °C ... 50 °C |
| Ambient temperature | 0 °C ... 50 °C |
| ADC resolution | 10 bit |
| Accuracy in ± % FS | 1.5 %FS |
| Repetition accuracy in ± %FS | 0.3 %FS |
| Temperature co-efficient in ± %FS/K | 0.05 %FS/K |
| Switching output | PNP/NPN switchable |
| Switching function | Freely programmable |
| Switching element function | N/C contact N/O contact Switchable |
| On time | 1 ms |
| Switch-off time | 1 ms |
| Max. output current | 100 mA |
| Display range start value | 0 %FS |

| Feature | Value |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display range end value | 99 %FS |
| Short-circuit protection | yes |
| 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 | 2 Byte |
| IO-Link®, process data content IN | 14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring) |
| IO-Link®, minimum cycle time | 3 ms |
| IO-Link®, data memory required | 500 byte |
| DC operating voltage range | 18 V ... 30 V |
| Reverse polarity protection | for all electrical connections |
| Electrical connection | 3-wire Cable Open end |
| Cable length | 2.5 m |
| Type of mounting | Pin-type conneciton |
| Mounting position | Any |
| Pneumatic connection | Cartridge 10 mm |
| Product weight | 40 g |
| Housing material | PA-reinforced |
| Sealing ring material | FPM NBR |
| Display type | LED display 2-digit |
| Displayable unit(s) | %FS |
| Switching status indication | LED yellow |
| Setting options | IO-Link® Teach-in Via display and pushbuttons |
| Protection against tampering | PIN code |
| Setting range threshold value | 1 % ... 98 % |
| Degree of protection | IP40 |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B2-L |
| Suitability for the production of Li-ion batteries | Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 4 according to ISO 14644-1 |