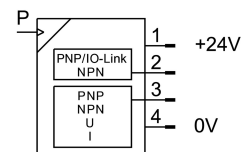


Pressure sensor SPAN-B2R-M5F-PNLK-PNVBA-L1

Part number: 8035540

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 |
| Certificate issuing authority | UL E322346 |
| Note on materials | RoHS-compliant |
| Measured variable | Relative pressure |
| Method of measurement | Piezoresistive pressure sensor |
| Pressure measuring range initial value | -0.1 MPa -1 bar -14.5 psi |
| Pressure measuring range end value | 0.1 MPa 1 bar 14.5 psi |
| Max. overload pressure | 5 bar |
| Overload pressure | 0.5 MPa 5 bar 72.5 psi |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas |
| Information on operating and pilot media | Operation with oil lubrication possible |
| Temperature of medium | 0 °C...50 °C |
| Ambient temperature | 0 °C...50 °C |
| 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 | 2 x PNP or 2 x NPN switchable |
| Switching function | Window comparator Threshold value comparator Auto difference monitoring |
| Switching element function | N/C contact/N/O contact switchable |
| Max. output current | 100 mA |

| Feature | Value |
|--|--|
| Analog output | 0 - 10 V 4 - 20 mA 1 - 5 V |
| Max. load resistance of current output | 500 Ohm |
| Min. load resistance of voltage output | 20 kOhm |
| 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 | 0,5 kB |
| DC operating voltage range | 15 V...30 V |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connection technology | Connection diagram L1J |
| Electrical connection 1, number of pins/wires | 4 |
| Type of mounting | Front panel mounting With wall/surface bracket |
| Mounting position | Any |
| Pneumatic connection | Internal thread M5 |
| Product weight | 34 g |
| Housing material | PA-reinforced |
| Materials in contact with the media | FPM High-alloy stainless steel |
| Display type | Illuminated LCD |
| Displayable unit(s) | MPa bar inH2O inHg kPa kgf/cm ² mbar mmHg psi |
| Setting options | IO-Link® Teach-in Via display and pushbuttons |
| Protection against tampering | IO-Link® PIN code |
| Setting range threshold value | 0 %...100 % |
| Setting range hysteresis | 0 %...90 % |
| Degree of protection | IP40 |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364-B1/B2-L |

| Feature | Value |
|--|--|
| Suitability for the production of Li-ion batteries | Metals with more than 1% 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 |