

Pressure sensor SPAN-B-B2R-G18FPM-PN-L1+2.5S

Part number: 8114778

FESTO



Data sheet

| Feature | Value |
|--|---|
| Approval | RCM trademark c UL us listed (OL) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| CE marking (see declaration of conformity) | To UK instructions for EMC To UK RoHS instructions |
| Note on materials | RoHS-compliant |
| Measured variable | Relative pressure |
| Measurement method | Piezoresistive pressure sensor |
| Start value for pressure measuring range | -0.1 MPa -1 bar -14.5 psi |
| End value for pressure measuring range | 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 to ISO 8573-1:2010 [7:4:4] Inert gases |
| Note on operating and pilot medium | Lubricated operation possible |
| Media temperature | 0 °C...50 °C |
| Ambient temperature | 0 °C...50 °C |
| Accuracy in ± % FS | 1.5 %FS |
| Repetition accuracy in ± %FS | 0.3 %FS |
| Temperature coefficient in ± %FS/K | 0.1 %FS/K |
| Switching output | PNP/NPN, switchable |
| Switching function | Window comparator Threshold value comparator |
| Switching element function | N/C or N/O contact, switchable |
| Max. output current | 80 mA |
| Short circuit current rating | yes |
| Operational voltage range DC | 10.8 V...30 V |

| Feature | Value |
|--|--|
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Plugs |
| Electrical connection 1, connector system | Connection pattern L1J |
| Electrical connection 1, number of connections/cores | 4 |
| Type of mounting | Front panel mounting Via thread Via wall/surface bracket |
| Mounting position | optional |
| Pneumatic connection | Female thread G1/8 |
| Product weight | 21 g |
| Material housing | PA-reinforced |
| Material in contact with the medium | FPM PA-reinforced |
| Display type | Illuminated LCD |
| Displayable units | MPa bar inHg kPa mmHg psi |
| Setting options | Teach-in Via display and keys |
| Protection against tampering | 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 |
| 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 |