

Pressure sensor SPAN-B-B11R-R18M-PN-L1+2.5S

Part number: 8114768

FESTO



[PDF](#) General operating condition

Data sheet

| Feature | Value |
|--|--|
| Symbol | 00997331 |
| 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 RoHS instructions |
| Note on materials | RoHS compliant |
| Measured variable | Relative pressure |
| Method of measurement | Piezoresistive pressure sensor |
| 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 | 1 MPa |
| Pressure measuring range end value | 10 bar |
| Pressure measuring range end value | 145 psi |
| Max. overload pressure | 15 bar |
| Overload pressure | 1.5 MPa |
| Overload pressure | 15 bar |
| Overload pressure | 217.5 psi |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gases |
| Information on operating and pilot media | Lubricated operation 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 | 0.1 %FS/K |
| Switching output | PNP/NPN switchable |
| Switching function | Window comparator Threshold value comparator |
| Switching element function | N/C contact/N/O contact, switchable |
| Max. output current | 80 mA |
| Short-circuit protection | Yes |
| DC operating voltage range | 10.8 V ... 30 V |
| Reverse polarity protection | for all electrical connections |
| Electrical connection 1, connection type | Plug |

| Feature | Value |
|---|--|
| Electrical connection 1, connection technology | Connection pattern L1] |
| Electrical connection 1, number of pins/wires | 4 |
| Electrical connection for input 1, connection pattern | 00995428 |
| Type of mounting | Front panel mounting With thread With wall/surface bracket |
| Mounting position | Any |
| Pneumatic connection | External thread R1/8 |
| Product weight | 31 g |
| Housing material | PA-reinforced |
| Materials in contact with the media | FPM Brass, nickel-plated PA-reinforced |
| Display type | Illuminated LCD |
| Displayable unit(s) | MPa bar In Hg 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 |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1 |