

# Pressure sensor SPAN-B-V1R-Q4-PN-L1

Part number: 8114761

FESTO



General operating condition

## Data sheet

| Feature                                      | Value   |
|--|---|
| Symbol                                       | 00997331  |
| Approval                                     | RCM<br>c UL us - Listed (Oil)                               |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | 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 MPa   |
| Start value for pressure measuring range     | 0 bar   |
| Start value for pressure measuring range     | 0 psi   |
| End value for pressure measuring range       | -0.1 MPa  |
| End value for pressure measuring range       | -1 bar  |
| End value for pressure measuring range       | -14.5 psi   |
| Max. overload pressure                       | 5 bar   |
| Overload pressure                            | 0.5 MPa   |
| Overload pressure                            | 5 bar   |
| Overload pressure                            | 72.5 psi  |
| Operating medium                             | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gas      |
| 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<br>Threshold value comparator             |
| Switching element function                   | NC or NO, switchable  |
| Max. output current                          | 80 mA   |
| Short circuit current rating                 | Yes   |
| Operational voltage range DC                 | 10.8 V ... 30 V   |
| Reverse polarity protection                  | For all electrical connections                              |
| Electrical connection 1, connection type     | Plug  |

| Feature   | Value  |
|---|--|
| Electrical connection 1, connector system                 | Plug pattern L1J   |
| Electrical connection 1, number of connections/cores      | 4  |
| Electrical connection 1, connection pattern               | 00995428   |
| Type of mounting  | Front panel mounting<br>Via wall/surface bracket                   |
| Mounting position   | Any  |
| Pneumatic connection                                      | For tubing O.D. 4 mm   |
| Product weight  | 21 g   |
| Material housing  | Reinforced PA  |
| Material in contact with the medium                       | Fluoro rubber<br>NBR<br>Reinforced PA                              |
| Display type  | Illuminated LCD  |
| Displayable units   | MPa<br>bar<br>inHg<br>kPa<br>mmHg<br>psi                           |
| Setting options   | Teach-in<br>Via display and buttons                                |
| 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        | Suitable for battery production with reduced Cu/Zn/Ni values (F1a) |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1                                   |