

# Pressure sensor SPAN-B-V1R-M5FAL-PN-L1

Part number: 8114758

FESTO



[PDF](#) General operating condition

## Data sheet

| Feature                                      | Value  |
|--|--|
| Symbol                                       | 00997331   |
| Certification                                | RCM compliance mark<br>c UL us - Listed (OL)                 |
| CE marking (see declaration of conformity)   | As per EU EMC directive<br>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 MPa  |
| Pressure measuring range initial value       | 0 bar  |
| Pressure measuring range initial value       | 0 psi  |
| Pressure measuring range end value           | -0.1 MPa   |
| Pressure measuring range end value           | -1 bar   |
| Pressure measuring range end value           | -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 as per ISO 8573-1:2010 [7:4:4]<br>Inert gases |
| 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          | 0.1 %FS/K  |
| Switching output                             | PNP/NPN switchable   |
| Switching function                           | Window comparator<br>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 diagram L1J   |
| Electrical connection 1, number of pins/wires             | 4  |
| Electrical connection for input 1, connection pattern     | 00995428   |
| Type of mounting  | Front panel mounting<br>With wall/surface bracket                  |
| Mounting position   | Any  |
| Pneumatic connection                                      | Internal thread M5   |
| Product weight  | 21 g   |
| Housing material  | PA-reinforced  |
| Materials in contact with the media                       | Wrought aluminum alloy, anodized<br>FPM<br>PA-reinforced           |
| Display type  | Illuminated LCD  |
| Displayable unit(s)                                       | MPa<br>bar<br>inHg<br>kPa<br>mmHg<br>psi                           |
| Setting options   | Teach-in<br>Via display and pushbuttons                            |
| 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                                   |