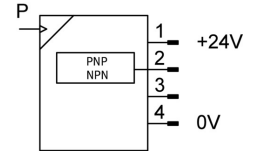


# Pressure sensor SPAN-B-B11R-M5FAL-PN-L1

Part number: 8114756

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 instructions for EMC<br>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]<br>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          | 0.1 %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                             |

| Feature   | Value   |
|---|---|
| Electrical connection 1, connection type              | Plug  |
| 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    | Metals with more than 1% by mass of 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  |