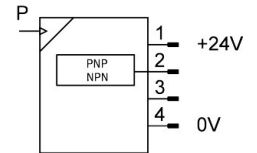


# Pressure sensor SPAN-B-B11R-R18M-PN-L1+2.5S

Part number: 8114768

**FESTO**



## Data sheet

| Feature                                      | Value  |
|--|--|
| 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<br>-1 bar<br>-14.5 psi                            |
| Pressure measuring range end value           | 1 MPa<br>10 bar<br>145 psi                                 |
| Max. overload pressure                       | 15 bar   |
| Overload pressure                            | 1.5 MPa<br>15 bar<br>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  |

| Feature  | Value  |
|--|--|
| Reverse polarity protection                    | for all electrical connections                                   |
| Electrical connection 1, connection type       | Plug   |
| Electrical connection 1, connection technology | Connection diagram L1J   |
| Electrical connection 1, number of pins/wires  | 4  |
| Type of mounting                               | Front panel mounting<br>With thread<br>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<br>Brass, nickel-plated<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  |
| Cleanroom class                                | Class 4 according to ISO 14644-1                                 |