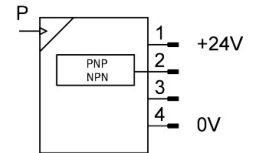


# Pressure sensor SPAN-B-B2R-R18M-PN-L1

Part number: 8114754

**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           | 0.1 MPa<br>1 bar<br>14.5 psi                                 |
| Max. overload pressure                       | 5 bar                                                        |
| Overload pressure                            | 0.5 MPa<br>5 bar<br>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     | 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<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 pattern 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>In Hg<br>KPa<br>mmHg<br>psi                        |
| Setting options                                           | Teach-in<br>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                                 |