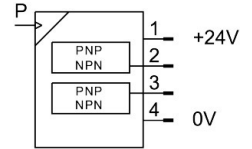


# Pressure sensor SPAN-B2R-M5F-PN-PN-L1

Part number: 8035551

**FESTO**



## Data sheet

| Feature                                      | Value   |
|--|---|
| Approval                                     | RCM trademark<br>c UL us listed (OL)  |
| 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 instructions for EMC<br>To UK RoHS instructions                         |
| Certificate issuing authority                | UL E322346  |
| Note on materials                            | RoHS-compliant  |
| Measured variable                            | Relative pressure   |
| Measurement method                           | Piezoresistive pressure sensor  |
| Start value for pressure measuring range     | -0.1 MPa<br>-1 bar<br>-14.5 psi   |
| End value for pressure measuring range       | 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 to ISO 8573-1:2010 [7:4:4]<br>Inert gases                      |
| 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           | 0.05 %FS/K  |
| Switching output                             | 2 x PNP or 2 x NPN, switchable  |
| Switching function                           | Window comparator<br>Threshold value comparator<br>Auto difference monitoring |
| Switching element function                   | N/C or N/O contact, switchable  |
| Max. output current                          | 100 mA  |
| Short circuit current rating                 | yes   |

| Feature  | Value  |
|--|--|
| Operational voltage range DC                         | 15 V...30 V  |
| Reverse polarity protection                          | For all electrical connections   |
| Electrical connection 1, connection type             | Plugs  |
| Electrical connection 1, connector system            | Connection pattern L1)   |
| Electrical connection 1, number of connections/cores | 4  |
| Type of mounting                                     | Front panel mounting<br>Via wall/ surface bracket  |
| Mounting position                                    | optional   |
| Pneumatic connection                                 | Female thread M5   |
| Product weight                                       | 34 g   |
| Material housing                                     | PA-reinforced  |
| Material in contact with the medium                  | FPM<br>High-alloy stainless steel  |
| Display type   | Illuminated LCD  |
| Displayable units                                    | MPa<br>bar<br>inH2O<br>inHg<br>kPa<br>kgf/cm <sup>2</sup><br>mbar<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  |
| Suitability for the production of Li-ion batteries   | Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The 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   |