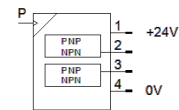
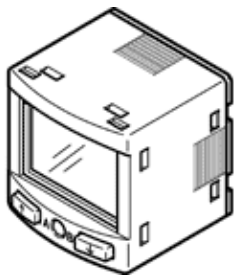


# pressure sensor SPAN-B2R-M5F-PN-PN-L1

Part number: 8035551

FESTO



## Data sheet

| Feature  | Value   |
|--|---|
| Authorisation                                  | RCM Mark<br>c UL us - Listed (OL)   |
| CE mark (see declaration of conformity)        | to EU directive for EMC<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 department                 | UL E322346  |
| Materials note                                 | Conforms to RoHS  |
| Measured variable                              | Relative pressure   |
| Measurement method                             | Piezoresistive pressure sensor  |
| Pressure measuring range start value (MPa)     | -0.1 MPa  |
| Pressure measuring range, initial value        | -1 bar  |
| Pressure measuring range start value (psi)     | -14.5 psi   |
| Pressure measuring range end value (MPa)       | 0.1 MPa   |
| Pressure measuring range, final value          | 1 bar   |
| Pressure measuring range end value (psi)       | 14.5 psi  |
| Overload range                                 | 5 bar   |
| Overload pressure                              | 0.5 MPa<br>5 bar  |
| Overload pressure (psi)                        | 72.5 psi  |
| Operating medium                               | Compressed air in accordance with ISO8573-1:2010 [7:4:4]<br>Inert gases       |
| Note on operating and pilot medium             | Lubricated operation possible   |
| Medium temperature                             | 0 ... 50 °C   |
| Ambient temperature                            | 0 ... 50 °C   |
| Accuracy, FS                                   | 1.5 %FS   |
| Repetition accuracy in ± %FS                   | 0.3 %FS   |
| Temperature co-efficient in ± %FS/K            | 0.05 %FS/K  |
| Switch 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 strength                         | Yes   |
| Operating voltage range DC                     | 15 ... 30 V   |
| Polarity protected                             | 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   |
| Mounting type                                  | Front panel installation<br>with wall/surface fixing                          |
| Assembly position                              | Any   |
| Pneumatic connection                           | Female thread M5  |
| Product weight                                 | 34 g  |
| Material housing                               | PA-reinforced   |

| Feature                                 | Value  |
|---|--|
| Materials in contact with media         | FPM<br>High alloy steel, non-corrosive   |
| Type of display                         | illuminated LCD  |
| Unit(s) that can be displayed           | MPa<br>bar<br>inchH2O<br>inchHg<br>kPa<br>kgf/cm <sup>2</sup><br>mbar<br>mmHg<br>psi |
| Setting options                         | Teach-In<br>Via display and buttons  |
| Protection against manipulation         | PIN-Code   |
| Threshold value setting range           | 0 ... 100 %  |
| Hysteresis setting range                | 0 ... 90 %   |
| Protection class                        | IP40   |
| Corrosion resistance classification CRC | 2 - Moderate corrosion stress  |
| PWIS conformity                         | VDMA24364-B1/B2-L  |
| RSBP classification to CD-0033          | F1a  |
| Cleanroom class                         | ISO class 4  |