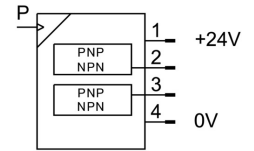


# Pressure sensor SPAN-P10R-R18M-PN-PN-L1

Part number: 8035547

**FESTO**



General operating condition

## Data sheet

| Feature                                      | Value   |
|--|---|
| Symbol                                       | 00995686  |
| 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                         |
| Certificate issuing authority                | UL E322346  |
| Note on materials                            | RoHS-compliant  |
| Measured variable                            | Relative pressure   |
| Method of measurement                        | Piezoresistive pressure sensor  |
| Pressure measuring range initial value       | 0 MPa   |
| Pressure measuring range initial value       | 0 bar   |
| Pressure measuring range initial value       | 0 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          | 0.05 %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 contact/N/O contact switchable  |
| Max. output current                          | 100 mA  |
| Short-circuit protection                     | yes   |
| DC operating voltage range                   | 15 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   |
| Electrical connection for input 1, connection pattern | 00995428  |
| Type of mounting                                      | Front panel mounting<br>With thread<br>With wall/surface bracket  |
| Mounting position                                     | Any   |
| Pneumatic connection                                  | External thread R1/8<br>Internal thread M5  |
| Product weight  | 46 g  |
| Housing material                                      | PA-reinforced   |
| Materials in contact with the media                   | FPM<br>High-alloy stainless steel   |
| Display type  | Illuminated LCD   |
| Displayable unit(s)                                   | MPa<br>bar<br>inH <sub>2</sub> O<br>inHg<br>kPa<br>kgf/cm <sup>2</sup><br>mbar<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  |