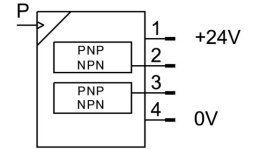


# Pressure sensor SPAN-P10R-G18M-PN-PN-L1

Part number: 8035544

**FESTO**



General operating condition

## Data sheet

| Feature                                    | Value                                                                         |
|--------------------------------------------|-------------------------------------------------------------------------------|
| Symbol                                     | 00995686                                                                      |
| 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                   |
| CE 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 MPa                                                                         |
| Start value for pressure measuring range   | 0 bar                                                                         |
| Start value for pressure measuring range   | 0 psi                                                                         |
| End value for pressure measuring range     | 1 MPa                                                                         |
| End value for pressure measuring range     | 10 bar                                                                        |
| End value for pressure measuring range     | 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 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                                                                           |
| Operational voltage range DC               | 15 V ... 30 V                                                                 |

| Feature                                              | Value                                                                                                                                                                                                                             |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reverse polarity protection                          | For all electrical connections                                                                                                                                                                                                    |
| Electrical connection 1, connection type             | Plugs                                                                                                                                                                                                                             |
| Electrical connection 1, connector system            | Connection pattern L1J                                                                                                                                                                                                            |
| Electrical connection 1, number of connections/cores | 4                                                                                                                                                                                                                                 |
| Electrical connection 1, connection pattern          | 00995428                                                                                                                                                                                                                          |
| Type of mounting                                     | Front panel mounting<br>Via thread<br>Via wall/surface bracket                                                                                                                                                                    |
| Mounting position                                    | optional                                                                                                                                                                                                                          |
| Pneumatic connection                                 | Male thread G1/8<br>Female thread M5                                                                                                                                                                                              |
| Product weight                                       | 46 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   | 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                                                                                                                                                                                                  |