

# Pressure sensor SPAN-V1R-Q4-PN-PN-L1

Part number: 803554

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 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           | -0.1 MPa  |
| Pressure measuring range end value           | -1 bar  |
| Pressure measuring range end value           | -14.5 psi   |
| Max. overload pressure                       | 5 bar   |
| Overload pressure                            | 0.5 MPa   |
| Overload pressure                            | 5 bar   |
| Overload pressure                            | 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          | 0.05 %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 pattern 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 wall/surface bracket   |
| Mounting position   | Any   |
| Pneumatic connection                                      | For pneumatic tubing outside diameter 4 mm  |
| Product weight  | 25 g  |
| Housing material  | PA-reinforced   |
| Materials in contact with the media                       | FPM<br>NBR<br>PA-reinforced   |
| Display type  | Illuminated LCD   |
| Displayable unit(s)                                       | MPa<br>bar<br>In H <sub>2</sub> O<br>In Hg<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   |
| Cleanroom suitability, measured according to ISO 14644-14 | Class 4 according to ISO 14644-1  |