

# Pressure sensor SDE3-V1D-B-HQ4-2P-M12

Part number: 568663

FESTO



[PDF General operating condition](#)

## Data sheet

| Feature                                      | Value   |
|--|---|
| Symbol                                       | 00991165  |
| Certification                                | RCM compliance mark<br>c UL us - recognized (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                             |
| Note on materials                            | RoHS compliant                                      |
| Measured variable                            | 2 x relative pressure                               |
| Method of measurement                        | Piezoresistive pressure sensor with display         |
| 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   |
| 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]       |
| 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                           | 2 %FS ... 3 %FS                                     |
| Repetition accuracy in ± %FS                 | 0.3 %FS   |
| Temperature co-efficient in ± %FS/K          | 0.05 %FS/K  |
| Switching output                             | 2xPNP   |
| Switching function                           | Freely programmable                                 |
| Switching element function                   | Switchable  |
| Reproducibility of switching value           | 0.3 %   |
| On time                                      | 3 ms  |
| Switch-off time                              | 3 ms  |
| Max. output current                          | 100 mA  |
| Voltage drop                                 | 1.5 V   |
| Display range start value                    | 0 %FS   |
| Display range end value                      | 100 %FS   |
| Short-circuit protection                     | Yes   |

| Feature   | Value   |
|---|---|
| Overload protection                                       | Available   |
| DC operating voltage range                                | 15 V ... 30 V                                       |
| Reverse polarity protection                               | for all electrical connections                      |
| Electrical connection 1, connection type                  | Plug  |
| Electrical connection 1, connection technology            | M12x1 A-coded as per EN 61076-2-101                 |
| Electrical connection 1, number of pins/wires             | 5   |
| Electrical connection 1, type of mounting                 | Screw-type lock<br>not rotatable                    |
| Electrical connection 1, type of mounting                 | Compatible with rotatable screw-type lock           |
| Electrical connection for input 1, connection pattern     | 00997595  |
| Type of mounting  | With through-hole<br>With DIN rail                  |
| Mounting position   | Any   |
| Pneumatic connection                                      | QS-4  |
| Product weight  | 37 g  |
| Housing material  | PA-reinforced                                       |
| Materials in contact with the media                       | FPM<br>Brass, nickel-plated<br>NBR<br>PA-reinforced |
| Display type  | Illuminated LCD                                     |
| Displayable unit(s)                                       | bar   |
| Switching status indication                               | LCD yellow  |
| Setting options   | Teach-in  |
| Protection against tampering                              | PIN code  |
| Setting range threshold value                             | 0 % ... 100 %                                       |
| Setting range hysteresis                                  | 0 % ... 90 %  |
| Degree of protection                                      | IP65  |
| 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                    |