

# Pressure sensor SDE3-V1D-B-HQ4-2P-M8

Part number: 540196

**FESTO**



## Data sheet

| Feature                                      | Value                                                 |
|----------------------------------------------|-------------------------------------------------------|
| 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 instructions for EMC<br>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<br>0 bar<br>0 psi                               |
| Pressure measuring range end value           | -0.1 MPa<br>-1 bar<br>-14.5 psi                       |
| Overload pressure                            | 0.5 MPa<br>5 bar<br>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                                                 |

| Feature                                                   | Value                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Display range end value                                   | 100 %FS                                                                                                                       |
| Short-circuit protection                                  | Yes                                                                                                                           |
| 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            | M8x1 A-coded as per EN 61076-2-104                                                                                            |
| Electrical connection 1, number of pins/wires             | 4                                                                                                                             |
| Electrical connection 1, type of mounting                 | Snap-locking<br>Screw-type lock<br>not rotatable<br>Compatible with snap-locking<br>Compatible with rotatable screw-type lock |
| 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                                                                                              |