

Pressure sensor SDE3-V1S-B-HQ4-2P-M8

Part number: 540193

FESTO



[PDF General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Symbol | 00991165 |
| Approval | RCM c UL us - Recognised (Oil) |
| CE mark (see declaration of conformity) | To EU EMC Directive In accordance with EU RoHS Directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Note on materials | RoHS compliant |
| Measured variable | Relative pressure |
| Measurement method | Piezoresistive pressure sensor with display |
| 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 | -0.1 MPa |
| End value for pressure measuring range | -1 bar |
| End value for pressure measuring range | -14.5 psi |
| Overload pressure | 0.5 MPa |
| Overload pressure | 5 bar |
| Overload pressure | 72.5 psi |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible |
| Media temperature | 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 coefficient in ± %FS/K | 0.05 %FS/K |
| Switching output | 2xPNP |
| Switching function | Freely programmable |
| Switching element function | Switchable |
| Reproducibility of switching value | 0.3 % |
| Switch-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 current rating | Yes |

| Feature | Value |
|---|--|
| Overload protection | Available |
| Operational voltage range DC | 15 V ... 30 V |
| Reverse polarity protection | For all electrical connections |
| Electrical connection 1, connection type | Plug |
| Electrical connection 1, connector system | M8x1, A-coded, to EN 61076-2-104 |
| Electrical connection 1, number of connections/cores | 4 |
| Electrical connection 1, type of mounting | Snap-locking Screw-type lock Not rotatable |
| Electrical connection 1, compatible type of mounting | Compatible with latching lock Compatible with rotatable screw-type lock |
| Electrical connection 1, connection pattern | 00991171 |
| Type of mounting | With through-hole via DIN rail |
| Mounting position | Any |
| Pneumatic connection | QS-4 |
| Product weight | 37 g |
| Material housing | Reinforced PA |
| Material in contact with the medium | Fluoro rubber Brass, nickel-plated NBR Reinforced PA |
| Display type | Illuminated LCD |
| Displayable units | 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 |