

Pressure sensor SDE3-D10S-B-HQ4-2P-M8

Part number: 540207

FESTO



[PDF General operating condition](#)

Data sheet

| Feature | Value |
|--|---|
| Symbol | 00991165 |
| Certification | RCM compliance mark c UL us - Recognized (OL) |
| CE marking (see declaration of conformity) | As per EU EMC directive As per EU RoHS directive |
| UKCA marking (see declaration of conformity) | To UK RoHS instructions |
| Note on materials | RoHS-compliant |
| Measured variable | 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 | 1 MPa |
| Pressure measuring range end value | 10 bar |
| Pressure measuring range end value | 145 psi |
| Overload pressure | 1.5 MPa |
| Overload pressure | 15 bar |
| Overload pressure | 217.5 psi |
| Operating medium | Compressed air as per ISO 8573-1:2010 [7:4:4] |
| Information on operating and pilot media | Operation with oil lubrication 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 | 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 Screw-type lock not rotatable |
| Electrical connection 1, type of mounting | Compatible with snap-locking Compatible with rotatable screw-type lock |
| Electrical connection for input 1, connection pattern | 00991171 |
| Type of mounting | With through-hole With H-rail |
| Mounting position | Any |
| Pneumatic connection | QS-4 |
| Product weight | 37 g |
| Housing material | PA-reinforced |
| Materials in contact with the media | FPM Brass, nickel-plated NBR 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 |