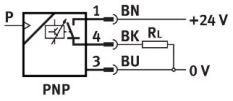
# Pressure sensor
# SDE5-D10-O2-Q6-P-M8

Part number: 542892






## 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 | Relative pressure |
| Method of measurement | Piezoresistive pressure sensor |
| Pressure measuring range initial value | 0 MPa<br>0 bar<br>0 psi |
| Pressure measuring range end value | 1 MPa<br>10 bar<br>145 psi |
| Overload pressure | 1.5 MPa<br>15 bar<br>217.5 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 | 0.5 %FS |
| Repetition accuracy in ± %FS | 0.3 %FS |
| Temperature co-efficient in ± %FS/K | 0.05 %FS/K |
| Switching output | PNP |
| Switching function | Threshold value with variable hysteresis |
| Switching element function | N.O. contact |
| Hysteresis in ± %FS | 1 %FS...99 %FS |
| On time | 2 ms |
| Switch-off time | 2 ms |
| Max. output current | 100 mA |
| Voltage drop | 1.8 V |
| Short-circuit protection | Yes |

| Feature | Value |
|---|---|
| Overload protection | Yes |
| 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 | 3 |
| Electrical connection 1, type of mounting | Screw-type lock<br>Compatible with snap-locking<br>Compatible with rotatable screw-type lock |
| Material of plug housing | Brass, nickel-plated |
| Max. cable length | 30 m |
| Type of mounting | With accessories |
| Mounting position | Any |
| Pneumatic connection | QS-6 |
| Product weight | 19 g |
| Housing material | PA-reinforced<br>Reinforced POM |
| Sealing ring material | FPM<br>NBR |
| Switching status indication | Yellow LED |
| Setting options | Teach-in |
| Setting range threshold value | 0 %...100 % |
| 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 |