

# Pressure sensor SDE5-V1-FP-Q6-P-M8

Part number: 542887

FESTO



 General operating condition

## Data sheet

| Feature                                      | Value   |
|--|---|
| Symbol                                       | 00991164  |
| Approval                                     | RCM trademark<br>c UL us - Recognized (OL)                  |
| CE mark (see declaration of conformity)      | To EU EMC Directive<br>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                              |
| Start value for pressure measuring range     | 0 bar   |
| End value for pressure measuring range       | -1 bar  |
| 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  |
| Repetition accuracy in ± %FS                 | 0.3 %FS   |
| Temperature coefficient in ± %FS/K           | 0.05 %FS/K  |
| Switching output                             | PNP   |
| Switching function                           | Freely programmable   |
| Switching element function                   | Switchable  |
| Max. output current                          | 100 mA  |
| Short circuit current rating                 | yes   |
| Operational voltage range DC                 | 15 V ... 30 V   |
| Reverse polarity protection                  | For all electrical connections                              |
| Electrical connection                        | 3-pin<br>M8x1<br>Plugs<br>To EN 60947-5-2<br>Round design   |
| Type of mounting                             | With accessories  |
| Mounting position                            | optional  |
| Pneumatic connection                         | QS-6  |
| Product weight                               | 19 g  |
| Material housing                             | PA<br>POM   |
| Switching status indication                  | Yellow LED  |
| Setting range threshold value                | 0 % ... 100 %   |
| Degree of protection                         | IP40  |

| <b>Feature</b>  | <b>Value</b>                     |
|---|----------------------------------|
| 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 |