

# Pressure sensor SDE5-

Part number: 529027

FESTO



 General operating condition

## Data sheet

Overall data sheet – Individual values depend upon your configuration.

| 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                            | Differential pressure<br>Relative pressure                                                                                    |
| Method of measurement                        | Piezoresistive pressure sensor                                                                                                |
| Pressure measuring range initial value       | -1 bar                                                                                                                        |
| Pressure measuring range end value           | 10 bar                                                                                                                        |
| 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                                                                                                                |
| Repetition accuracy in ± %FS                 | 0.3 %FS                                                                                                                       |
| Temperature co-efficient in ± %FS/K          | 0.05 %FS/K                                                                                                                    |
| Switching output                             | NPN<br>PNP                                                                                                                    |
| Switching function                           | Window comparator<br>Freely programmable<br>Threshold value with fixed hysteresis<br>Threshold value with variable hysteresis |
| Switching element function                   | N/C contact<br>N/O contact<br>Switchable                                                                                      |
| Max. output current                          | 100 mA                                                                                                                        |
| Analog output                                | 0 - 10 V                                                                                                                      |
| Output characteristic curve initial value    | 0 V                                                                                                                           |
| End value output characteristic curve        | 10 V                                                                                                                          |
| Precision analog output in ± %FS             | 3 %FS                                                                                                                         |
| Linearity error in ± % FS                    | 0.3 %FS                                                                                                                       |
| Short-circuit protection                     | yes                                                                                                                           |
| DC operating voltage range                   | 15 V ... 30 V                                                                                                                 |
| Reverse polarity protection                  | for all electrical connections                                                                                                |
| Electrical connection                        | Cable<br>Plug                                                                                                                 |

| Feature                          | Value                             |
|----------------------------------|-----------------------------------|
| Cable length                     | 2.5 m                             |
| Type of mounting                 | With accessories                  |
| Mounting position                | Any                               |
| Pneumatic connection             | QS-4<br>QS-6<br>QS-5/32<br>QS-1/4 |
| Product weight                   | 19 g ... 47 g                     |
| Housing material                 | POM                               |
| Ready status indication          | LED                               |
| Degree of protection             | IP40                              |
| Corrosion resistance class (CRC) | 2 - Moderate corrosion stress     |
| LABS (PWIS) conformity           | VDMA24364-B1/B2-L                 |
| Cleanroom class                  | Class 4 according to ISO 14644-1  |