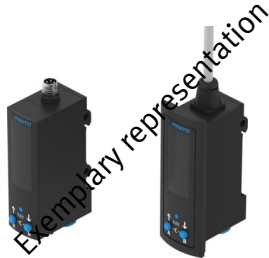


Pressure sensor SDE3-...

Part number: 539679

FESTO



[General operating condition](#)

Data sheet

Overall data sheet – Individual values depend upon your configuration.

Feature	Value
Symbol	00991161 00991165 00991638 00991639
Approval	RCM c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive To EU Explosion Protection Directive (ATEX) In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Explosion protection	Zone 2 (ATEX) Zone 22 (ATEX)
ATEX category gas	II 3G
Explosion ignition protection type for gas	Ex ec IIC T6 Gc X
ATEX category dust	II 3D
Explosion ignition protection type for dust	Ex tc IIIC T80°C Dc X
Explosion ambient temperature	0°C ≤ Ta ≤ +50°C
Note on materials	RoHS compliant
Measured variable	1x relative pressure/1x differential pressure 2 x relative pressure Differential pressure Relative pressure
Measurement method	Piezoresistive pressure sensor with display
Start value for pressure measuring range	-0.1 MPa
Start value for pressure measuring range	-1 bar
Start value for pressure measuring range	-14.5 psi
End value for pressure measuring range	1 MPa
End value for pressure measuring range	10 bar
End value for pressure measuring range	145 psi
Overload pressure	0.6 MPa ... 2 MPa
Overload pressure	6 bar ... 20 bar
Overload pressure	87 psi ... 290 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

Feature	Value
Repetition accuracy in \pm %FS	0.3 %FS
Temperature coefficient in \pm %FS/K	0.05 %FS/K
Switching output	2xNPN 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
Overload protection	Available
Operational voltage range DC	15 V ... 30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Cable Cable with plug Plug
Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101 M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	4 ... 5
Electrical connection 1, type of mounting	Snap-locking Screw-type lock Rotatable 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 00997595
Cable length	0.3 m ... 2.5 m
Type of mounting	Front panel mounting With through-hole via DIN rail Via wall/surface bracket
Mounting position	Any
Pneumatic connection	QS-4 QS-5/32
Product weight	37 g ... 61 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 inH2O inHg kPa psi
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

Feature	Value
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1