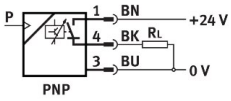
Pressure sensor
SDE5-D10-O2-Q6E-P-M8

Part number: 542891



Data sheet

Feature	Value
Approval	RCM c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC 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 MPa 0 bar 0 psi
End value for pressure measuring range	1 MPa 10 bar 145 psi
Overload pressure	1.5 MPa 15 bar 217.5 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	0.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature coefficient 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
Switch-on time	2 ms
Switch-off time	2 ms
Max. output current	100 mA
Voltage drop	1.8 V
Short circuit current rating	Yes

Feature	Value
Overload protection	Yes
Operational voltage range DC	15 V...30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Screw-type lock
Electrical connection 1, compatible type of mounting	Compatible with latching lock Compatible with rotatable screw-type lock
Material connector 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
Material housing	Reinforced PA Reinforced POM
Material sealing ring	Fluoro rubber 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