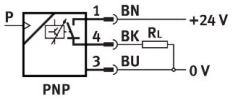
Pressure sensor
SDE5-V1-O-Q4-P-M8

Part number: 527457





Data sheet

Feature	Value
Certification	RCM compliance mark c UL us - recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per 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
Method of measurement	Piezoresistive pressure sensor
Pressure measuring range initial value	0 MPa 0 bar 0 psi
Pressure measuring range end value	-0.1 MPa -1 bar -14.5 psi
Overload pressure	0.5 MPa 5 bar 72.5 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 fixed hysteresis
Switching element function	N.O. contact
Hysteresis in ± %FS	2 %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 Compatible with snap-locking Compatible with rotatable screw-type lock
Max. cable length	30 m
Type of mounting	With accessories
Mounting position	Any
Pneumatic connection	QS-4
Product weight	19 g
Housing material	PA-reinforced Reinforced POM
Sealing ring material	FPM 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