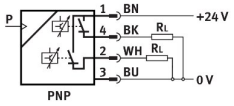
Pressure sensor
SDE3-D10Z-B-HQ4-2P-M8

Part number: 540211





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	Differential pressure
Method of measurement	Piezoresistive pressure sensor with display
Pressure measuring range initial value	0 MPa 0 bar 0 psi
Pressure measuring range end value	1 MPa 10 bar 145 psi
Overload pressure	2 MPa 20 bar 290 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	2 %FS...3 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switching output	2xPNP
Switching function	Freely programmable
Switching element function	Switchable
Reproducibility of switching value	0.3 %
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

Feature	Value
Display range end value	100 %FS
Short-circuit protection	Yes
Overload protection	Available
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	4
Electrical connection 1, type of mounting	Snap-locking Screw-type lock not rotatable Compatible with snap-locking Compatible with rotatable screw-type lock
Type of mounting	With through-hole With DIN rail
Mounting position	Any
Pneumatic connection	QS-4
Product weight	37 g
Housing material	PA-reinforced
Materials in contact with the media	FPM Brass, nickel-plated NBR PA-reinforced
Display type	Illuminated LCD
Displayable unit(s)	bar
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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1