Pressure sensor
SPAN-B-V1R-G18M-PN-L1+2.5S
Part number: 8114767
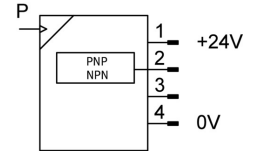
Data sheet

Feature	Value
Symbol	00997331
Certification	RCM compliance mark c UL us - Listed (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
Pressure measuring range initial value	0 bar
Pressure measuring range initial value	0 psi
Pressure measuring range end value	-0.1 MPa
Pressure measuring range end value	-1 bar
Pressure measuring range end value	-14.5 psi
Max. overload pressure	5 bar
Overload pressure	0.5 MPa
Overload pressure	5 bar
Overload pressure	72.5 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Operation with oil lubrication possible
Temperature of medium	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.1 %FS/K
Switching output	PNP/NPN switchable
Switching function	Window comparator Threshold value comparator
Switching element function	N/C contact/N/O contact switchable
Max. output current	80 mA
Short-circuit protection	yes
DC operating voltage range	10.8 V ... 30 V
Reverse polarity protection	for all electrical connections

Feature	Value
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	Connection diagram L1J
Electrical connection 1, number of pins/wires	4
Electrical connection for input 1, connection pattern	00995428
Type of mounting	Front panel mounting With thread With wall/surface bracket
Mounting position	Any
Pneumatic connection	External thread G1/8
Product weight	31 g
Housing material	PA-reinforced
Materials in contact with the media	FPM Brass, nickel-plated PA-reinforced
Display type	Illuminated LCD
Displayable unit(s)	MPa bar inHg kPa mmHg psi
Setting options	Teach-in Via display and pushbuttons
Protection against tampering	PIN code
Setting range threshold value	0 % ... 100 %
Setting range hysteresis	0 % ... 90 %
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