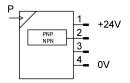
Pressure sensor SPAN-B-B2R-R18M-PN-L1+2.5S

Part number: 8114769







Data sheet

CUL us - Listed (OL) CE marking (see declaration of conformity) As per EU BMC directive As per EU RMC directive As per EU RMC directive DKCA marking (see declaration of conformity) To UK RoHS instructions Note on materials Relative pressure Method of measurement Plezoresistive pressure sensor Pressure measuring range initial value Pressure measuring range initial value O.1 MPa 1 bar 1 b	Feature	Value
As per EU ROHS directive UKCA marking (see declaration of conformity) To UK Instructions for EMC To UK ROHS instructions RoHS-compliant Measured variable Measured variable Method of measurement Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi Pressure measuring range end value 0.1 MPa 1 bar 14.5 psi Pressure measuring range end value Overload pressure Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Intert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O °C50 °C Ambient temperature Accuracy in ± % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching element function Mindow comparator Threshold value comparator	Certification	
To UK ROHS instructions Note on materials Measured variable Method of measurement Pressure measuring range initial value Pressure measuring range end value Pressure measuring range end value O.1 MPa 1 bar 14.5 psi Pressure measuring range end value O.1 MPa 1 bar 14.5 psi O.1 MPa 1 bar 14.5 psi Overload pressure Overload pressure Overload pressure Overload pressure 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 O °C50 °C Ambient temperature O °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature co-efficient in ± %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 So max	CE marking (see declaration of conformity)	
Measured variable Relative pressure Method of measurement Piezoresistive pressure sensor Pressure measuring range initial value -0.1 MPa 1 bar 14.5 psi Pressure measuring range end value 0.1 MPa 1 bar 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 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 °C50 °C Ambient temperature 0 °C50 °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 Threshold value comparator Threshold value comparator Switching element function N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes	UKCA marking (see declaration of conformity)	
Method of measurement Pressure measuring range initial value Pressure measuring range end value Pressure measuring range end value O.1 MPa 1 bar 1 4.5 psi Max. overload pressure Overload pressure Outerload pressure Operating medium Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Intert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O °C50 °C Ambient temperature O °C50 °C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function Mx. output current 80 mA Short-circuit protection	Note on materials	RoHS-compliant
Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi Pressure measuring range end value 0.1 MPa 1 bar 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 7.2.5 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 °C50 °C Anabient temperature 0 °C50 °C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS/K Switching output Switching output PNP/NPN switchable Switching function Mindow comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection	Measured variable	Relative pressure
Pressure measuring range end value Pressure measuring range end value O.1 MPa 1 bar 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 7.2.5 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°C50°C Ambient temperature 0°C50°C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS/K O.1 %FS/K Switching output Switching function Window comparator Threshold value comparator Switching element function Mx. output current Max. output current Max. output current So mA Short-circuit protection yes	Method of measurement	Piezoresistive pressure sensor
1 bar 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa 5 bar 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°C50 °C Ambient temperature 0°C50 °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	Pressure measuring range initial value	-1 bar
Overload pressure Outerload pressure Outerload pressure Outerload pressure Outerload pressure Outerload pressure Outerload pressure Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Outerload pressure Outerload pressure Outerload outerload pressure Outerload	Pressure measuring range end value	1 bar
5 bar 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operating with oil lubrication possible Temperature of medium O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS 1.5 % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection	Max. overload pressure	5 bar
Inert gas Information on operating and pilot media Operation with oil lubrication possible Temperature of medium O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS I.5 % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection Ves	Overload pressure	5 bar
Temperature of medium O °C50 °C Ambient temperature O °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function MyC contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes	Operating medium	
Ambient temperature 0 °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output Switching function Window comparator Threshold value comparator Switching element function Max. output current So mA Short-circuit protection O °C50 °C 1.5 %FS 1.5 %FS 0.3 %FS 0.1 %FS/K Window comparator Threshold value comparator Switchable 80 mA Short-circuit protection yes	Information on operating and pilot media	Operation with oil lubrication possible
Accuracy in ± % FS Repetition accuracy in ± %FS O.3 %FS Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function Mx. output current N/C contact/N/O contact switchable 80 mA Short-circuit protection yes	Temperature of medium	0 ℃50 ℃
Repetition accuracy in ± %FS Temperature co-efficient in ± %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	Ambient temperature	0 ℃50 ℃
Temperature co-efficient in ± %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	Accuracy in ± % FS	1.5 %FS
Switching output 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 PNP/NPN switchable Window comparator Threshold value comparator N/C contact/N/O contact switchable yes	Repetition accuracy in ± %FS	0.3 %FS
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	Temperature co-efficient in ± %FS/K	0.1 %FS/K
Threshold value comparator Switching element function N/C contact switchable Max. output current 80 mA Short-circuit protection yes	Switching output	PNP/NPN switchable
Max. output current 80 mA Short-circuit protection yes	Switching function	
Short-circuit protection yes	Switching element function	N/C contact/N/O contact switchable
· · · · · · · · · · · · · · · · · · ·	Max. output current	80 mA
DC operating voltage range 10.8 V30 V	Short-circuit protection	yes
	DC operating voltage range	10.8 V30 V

Feature	Value
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	Connection diagram L1J
Electrical connection 1, number of pins/wires	4
Type of mounting	Front panel mounting With thread With wall/surface bracket
Mounting position	Any
Pneumatic connection	External thread R1/8
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