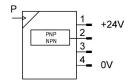
Pressure sensor SPAN-B-B11R-R18M-PN-L1

FESTO

Part number: 8114753





Data sheet

c UL us - Listed (OL) CE marking (see declaration of conformity) As per EU RMC directive As per EU RMS directive UKCA marking (see declaration of conformity) To UK Instructions for EMC To UK RoHS instructions Note on materials Measured variable Relative pressure Method of measurement Pressure measuring range initial value -0.1 MPa -1 bar -1 bar -1 4.5 psi Pressure measuring range end value 1 MPa 10 bar 15 bar Overload pressure 15 bar Overload pressure 1.5 MPa 127.5 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 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 lement function Micontact IN/O contact switchable Max. output current 80 mA Short-circuit protection	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 1 MPa 10 bar 145 psi Max. overload pressure 1.5 MPa 15 bar Overload pressure 1.5 MPa 15 bar 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 Accuracy in ± % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output PNP/NPN switchable Switching element function Max. output current Max. output current Max. output current So mA Short-circuit protection	Certification	the second secon
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 1 MPa 1 bar 14.5 psi 10 bar 145 psi Max. overload pressure 1.5 MPa 1 bar 217.5 psi Overload pressure 1.5 MPa 1 bar 217.5 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 O °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Note The Maximum of the Maximum o	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 1 MPa - 10 bar - 14.5 psi Max. overload pressure 1.5 MPa - 15 bar	UKCA marking (see declaration of conformity)	
Method of measurement Pressure measuring range initial value Pressure measuring range initial value Pressure measuring range end value I MPa 10 bar 14.5 psi Max. overload pressure 1.5 MPa 15 bar 217.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Prespectation accuracy in ± % FS Repetition accuracy in ± % FS Switching output Switching function Mx. overload pressure Piezoresistive pressure sensor -0.1 MPa -1 bar -1	Note on materials	RoHS-compliant
Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi Pressure measuring range end value 1 MPa 10 bar 145 psi Max. overload pressure 15 bar Overload pressure 1.5 MPa 15 bar 217.5 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 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 80 mA Short-circuit protection yes	Measured variable	Relative pressure
Pressure measuring range end value Pressure measuring range end value I MPa 10 bar 145 psi Max. overload pressure 15 bar Overload pressure 1.5 MPa 15 bar 217.5 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 O °50 °C Andient temperature O °C50 °C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output Switching function Window comparator Threshold value comparator Threshold value comparator Switching element function Mx. output current 80 mA Short-circuit protection yes	Method of measurement	Piezoresistive pressure sensor
10 bar 145 psi Max. overload pressure 15 bar Overload pressure 1.5 MPa 15 bar 217.5 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 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 yes	Pressure measuring range initial value	-1 bar
Overload pressure 1.5 MPa 15 bar 217.5 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 O°C50 °C Ambient temperature O°C50 °C Accuracy in ± % FS 1.5 % 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 M/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection	Pressure measuring range end value	10 bar
15 bar 217.5 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 O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS I.5 %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 N/C contact/N/O contact switchable Max. output current So mA Short-circuit protection Vommer air so per ISO 8573-1:2010 [7:4:4] Inert gas Local Seption [7:4:4] Inert gas Local Seption [7:4:4] Inert gas Noma Signature (Inert gas) Vommer air gas Vommer air	Max. overload pressure	15 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 yes	Overload pressure	15 bar
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 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 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	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 N/C contact/N/O contact switchable Max. output current 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 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