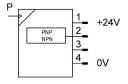
Pressure sensor SPAN-B-B2R-M5FAL-PN-L1+2.5S

FESTO

Part number: 8114772





Data sheet

c UL us - Listed (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RNHS 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 Pressure measuring range initial value Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi Pressure measuring range end value 0.1 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 Note on materials 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 Doverload 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 Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Remetition accuracy in ± % FS Switching output PNP/NPN switchable Switching element function Max. output current Ma	Certification	the state of the s
Note on materials Note on materials Relative pressure Method of measurement Pressure measuring range initial value O.1 MPa -1 bar -14.5 psi Overload pressure Overload pressure Overload pressure Operating medium Operating medium Operating on operating and pilot media Information on operating and pilot media Important emperature One Compressure O compressure O compressure O compressure O compressure O compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas Information on operating and pilot media Operation with oil lubrication possible Operature of medium O compressure O compre	CE marking (see declaration of conformity)	
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 Max. 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 Emperature co-efficient in ± %FS/K O.1 %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function MX C contact/N/O contact switchable Max. output current Bo mA Short-circuit protection	UKCA marking (see declaration of conformity)	
Method of measurement Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi -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 (0.1 %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function Mx. output current 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 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 Andient temperature 0 °C50 °C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output Switching output 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	Measured variable	Relative pressure
-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 Annohent temperature 0 °C50 °C Accuracy in ± % FS 1.5 %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 Max. output current 80 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 Temperature co-efficient in ± %FS/K Switching output PNP/NPN switchable Switching function Window comparator Threshold value comparator Switching element function MAX. output current So mA Short-circuit protection yes	Pressure measuring range initial value	-1 bar
Overload pressure Outerload pressure Outerlo	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 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 M/C contact/N/O contact switchable Max. output current So mA Short-circuit protection	Max. overload pressure	5 bar
Inert gas Information on operating and pilot media Operation with oil lubrication possible 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 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 N/C contact/N/O contact switchable Max. output current 80 mA Short-circuit protection yes	Operating medium	
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	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 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	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 Max. output current Short-circuit protection N/C contact/N/O contact switchable 80 mA 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
<u>'</u>	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 wall/surface bracket
Mounting position	Any
Pneumatic connection	Internal thread M5
Product weight	21 g
Housing material	PA-reinforced
Materials in contact with the media	Wrought aluminum alloy, anodized FPM 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
Suitability for the production of Li-ion batteries	Product corresponds to Festo's internal product definition for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1