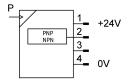
## Pressure sensor SPAN-B-B11R-G18FPM-PN-L1+2.5S

Part number: 8114777







## **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 Messured variable Relative pressure Method of measurement Pressure measuring range initial value  O1 MPa 1 bar 1 bar 1 44.5 psi  Pressure measuring range end value  I MPa 10 bar 15 bar  Overload pressure  15 bar  Overload pressure  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 O °C50 °C  Ambient temperature O °C50 °C  Accuracy in ± % FS  Temperature co-efficient in ± % FS /K  Switching output PNP/NPN switchable  Switching output Switching element function Max. output current So mA  So mA  Short-circuit protection  Ves	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 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  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 Switching element function  Max. output current  80 mA  Short-circuit protection	Certification	
To UK ROHS instructions  Note on materials  Measured variable  Method of measurement  Pressure measuring range initial value  Pressure measuring range end value  Pressure pressure sensor  Pressure pre	CE marking (see declaration of conformity)	
Measured variable       Relative pressure         Method of measurement       Piezoresistive pressure sensor         Pressure measuring range initial value       -0.1 MPa	UKCA marking (see declaration of conformity)	
Method of measurement  Pressure measuring range initial value  Pressure measuring range end value  Pressure measuring range end value  I MPa 10 bar 145 psi  Max. overload pressure  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  Repetition accuracy in ± %FS  Emperature co-efficient in ± %FS/K  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  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  O°C50 °C  Ambient 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 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  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°C50°C  Ambient temperature  O°C50°C  Accuracy in ± % FS  Repetition accuracy in ± %FS  Repetition accuracy in ± %FS/K  Switching output  Switching function  Window comparator Threshold value comparator Threshold value comparator Switching element function  Max. output current  Max. output current  So mA  Short-circuit protection  Ves	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 Over50 °C  Ambient 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  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	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  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	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  Ves	Overload pressure	15 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 °C50 °C
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	Internal thread G1/8
Product weight	21 g
Housing material	PA-reinforced
Materials in contact with the media	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	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1