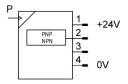
## Pressure sensor SPAN-B-B2R-G18FPM-PN-L1+2.5S

**FESTO** 

Part number: 8114778





## **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  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 -1 bar -14.5 psi  Max. overload pressure  5 bar  Overload pressure  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  Accuracy in ± % FS  1.5 %FS  Repetition accuracy in ± %FS  Repetition accuracy in ± %FS  Switching output  PNP/NPN switchable  Switching function  Window comparator  Threshold value comparator  Micholant switchable  Switching element function  N/C contact N/C 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  Note on materials  Relative pressure  Method of measurement  Pressure measuring range initial value -0.1 MPa -1 bar -14.5 psi  Pressure measuring range end value  O.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  Doperating temperature O °C50 °C  Ambient temperature Accuracy in ± % FS Repetition accuracy in ± % FS FS Repetition accuracy in ± % FS FS Remeit and the surface of the surface	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  Operating medium  Operating medium  Operating medium  Operating on operating and pilot media  Information on operating and pilot media  Operature 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  Switching function  Window comparator Threshold value comparator Threshold value comparator Switching element function  Max. output current  Max. output current  So mA  Short-circuit protection  Piezoresistive pressure  O.1 MPa -1.1 bar -1.4.5 psi  O.2 MPa -1.5 psi  Operating a part ISO 873-1:2010  (7:4:4) Inert gas  Information on operating and pilot media  Operation with oil lubrication possible  Operation with oil lubrication poss	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
· · · · · · · · · · · · · · · · · · ·	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	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