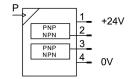
## Pressure sensor SPAN-B2R-G18M-PN-PN-L1

Part number: 8035545







## **Data sheet**

General operating condition

To UK ROHS instructions  Certificate issuing authority UL 522346  Note on materials RoHS-compliant  Measured variable Relative pressure Method of measurement Pressure measuring range initial value Pressure measuring range initial value 1	Feature	Value
CUL us - Listed (OL)  As per EU ENC directive As per EU ROHS directive As per EU ROHS directive As per EU ROHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK not instructions Certificate issuing authority  UL E322346  Note on materials  RoHS-compliant  Measured variable Relative pressure Method of measurement Pressure measuring range initial value -0.1 MPa Pressure measuring range initial value -1 bar  Pressure measuring range initial value -1 bar  Pressure measuring range end value -1 bar -	Symbol	00995686
As per EU ROHS directive  UKCA marking (see declaration of conformity)  To UK instructions for EMC To UK RoHS instructions  Certificate issuing authority  UL E322346  Note on materials  RoHS-compliant  Measured variable  Measured variable  Method of measurement  Pressure measuring range initial value  Pressure measuring range initial value  Pressure measuring range initial value  1 bar  Pressure measuring range end value  1 bar  Overload pressure  0 5 bar  Overload pressure  0 5 bar  Overload pressure  0 5 bar  Overload pressure  0 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 °C 50 °C  Anbient temperature  0 °C 50 °C  Anbient temperature  0 °C 50 °C  Ancuracy in ± %FS  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Switching output  Switching function  Window comparator Auto difference monitoring  Switching element function  Micromation on M/C contact switchable  Max. output current  100 mA  Short-circuit protection	Certification	· '
To UK ROHS instructions  Certificate issuing authority UL 522346  Note on materials RoHS-compliant  Measured variable Relative pressure Method of measurement Pressure measuring range initial value Pressure measuring range initial value 1	CE marking (see declaration of conformity)	
Note on materials  Relative pressure  Method of measurement  Piezoresistive pressure sensor  Pressure measuring range initial value  -1 bar  Pressure measuring range initial value  -1 bar  Pressure measuring range initial value  -1 bar  Pressure measuring range end value  -1 bar  Pressure measuring range end value  -1 bar  Pressure measuring range end value  1 bar  1 bar  Pressure measuring range end value  1 bar  1 bar  Pressure measuring range end value  1 bar  1 bar  Pressure measuring range end value  1 bar  1 bar  Pressure measuring range end value  1 bar  1 bar  1 bar  Pressure measuring range end value  1 bar  1	UKCA marking (see declaration of conformity)	
Measured variable  Method of measurement  Pressure measuring range initial value  Pressure measuring range initial value  1 bar  Pressure measuring range initial value  1 1 bar  Pressure measuring range initial value  1 1 bar  Pressure measuring range initial value  1 1 bar  Pressure measuring range end value  Pressure measuring range end value  1 bar  Pressure measuring range end value  5 bar  Overload pressure  6 bar  0 c. 5 bar  0 c.	Certificate issuing authority	UL E322346
Method of measurement Pressure measuring range initial value Pressure measuring range end value  14.5 psi Max. overload pressure  0.5 MPa Overload pressure 0.5 MPa Overload pressure 0.5 MPa Overload pressure 72.5 psi Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Inner 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 O.3 %FS Repetition accuracy in ± %FS Switching output 2 x PNP or 2 x NPN switchable Window comparator Threshold value comparator Auto difference monitoring Switching element function N/C contact/N/O contact switchable Max. output current 100 mAx. output current Short-circuit protection	Note on materials	RoHS-compliant
Pressure measuring range initial value Pressure measuring range end value 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa Overload pressure 0.5 MPa Overload pressure 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° C 50 °C Ambient temperature 0° C 50 °C Anccuracy in ± % FS Repetition accuracy in ± %FS 0.3 %FS Temperature co-efficient in ± %FS/K Switching output 2 x PNP or 2 x NPN switchable Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function N/C contact/N/O contact switchable Max. output current 100 mA Short-circuit protection	Measured variable	Relative pressure
Pressure measuring range initial value Pressure measuring range initial value Pressure measuring range end value 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa Overload pressure 72.5 psi Overload pressure Overload pressure 0.5 mar Overload pressure 0.5 mar Overload pressure 0.6 mare see all range initial value 0.5 mare 0.5	Method of measurement	Piezoresistive pressure sensor
Pressure measuring range initial value Pressure measuring range end value  Max. overload pressure  Overload pressure Overload overload of the pressure overload ov	Pressure measuring range initial value	-0.1 MPa
Pressure measuring range end value  Pressure measuring range end value  Pressure measuring range end value  14.5 psi  Max. overload pressure  0.5 MPa  Overload pressure  0.5 MPa  Overload pressure  5 bar  Overload pressure  72.5 psi  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4] Innert gas  Information on operating and pilot media  Operation with oil lubrication possible  Temperature of medium  0° C 50° C  Ambient temperature  0° C 50° C  Accuracy in ± % FS  1.5 % FS  Repetition accuracy in ± % FS  Temperature co-efficient in ± % FS/K  Switching output  2 x PNP or 2 x NPN switchable  Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Mx. output current  100 mA  Short-circuit protection  yes	Pressure measuring range initial value	-1 bar
Pressure measuring range end value Pressure measuring range end value 14.5 psi Max. overload pressure 5 bar Overload pressure 0.5 MPa Overload pressure 72.5 psi Overload pressure 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°C 50°C Ambient temperature 0°C 50°C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output 2 x PNP or 2 x NPN switchable Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function Max. output current 100 mA Short-circuit protection yes	Pressure measuring range initial value	-14.5 psi
Pressure measuring range end value  Max. overload pressure  Overload pressure  Ouerload pressure  Overload pressure  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° C 50 °C  Ambient temperature  O° C 50 °C  Accuracy in ± % FS  Repetition accuracy in ± % FS  Temperature co-efficient in ± % FS/K  Switching output  2 x PNP or 2 x NPN switchable  Window comparator Auto difference monitoring  Switching element function  MyC contact/N/O contact switchable  Max. output current  N/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection	Pressure measuring range end value	0.1 MPa
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  Operating medium  O° C 50 °C  Ambient temperature  Accuracy in ± % FS  Repetition accuracy in ± % FS  Temperature co-efficient in ± % FS/K  Switching output  Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Max. output current  Max. output current  Short-circuit protection  S bar  O.5 MPa  O.5 MPa  O.5 MPa  O.5 MPa  O.5 MPa  O.5 MFS-1:2010 [7:4:4] Inert gas  Operation with oil lubrication possible  Operation with oil	Pressure measuring range end value	1 bar
Overload pressure 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 Operating medium O° C 50 °C Ambient temperature O° C 50 °C Accuracy in ± % FS I.5 %FS Repetition accuracy in ± %FS Temperature co-efficient in ± %FS/K Switching output Over Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function Max. output current IOO mA Short-circuit protection  Version Sprace Sprac	Pressure measuring range end value	14.5 psi
Overload pressure Overload pressure 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°C 50 °C Ambient temperature O°C 50 °C Accuracy in ± % FS I.5 % FS Repetition accuracy in ± % FS Temperature co-efficient in ± % FS/K Switching output 2 x PNP or 2 x NPN switchable Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function M/C contact/N/O contact switchable Max. output current 100 mA Short-circuit protection  yes	Max. overload pressure	5 bar
Overload pressure  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°C 50°C  Ambient temperature O°C 50°C  Accuracy in ± % FS  1.5 %FS  Repetition accuracy in ± %FS  O.3 %FS  Temperature co-efficient in ± %FS/K  Switching output  2 x PNP or 2 x NPN switchable  Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  M/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection	Overload pressure	0.5 MPa
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  2 x PNP or 2 x NPN switchable  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  MyC contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  Sometimes and pilot media  Operation with oil lubrication possible  Operatio	Overload pressure	5 bar
Inert gas  Information on operating and pilot media Operation with oil lubrication possible  Temperature of medium O°C 50 °C  Ambient temperature O°C 50 °C  Accuracy in ± % FS I.5 % FS  Repetition accuracy in ± % FS O.3 % FS  Temperature co-efficient in ± % FS /K  Switching output Switching function Window comparator Threshold value comparator Auto difference monitoring  Switching element function MyC contact/N/O contact switchable  Max. output current I00 mA  Short-circuit protection  yes	Overload pressure	72.5 psi
Temperature of medium  O °C 50 °C  Ambient temperature  O °C 50 °C  Accuracy in ± % FS  1.5 %FS  Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Switching output  2 x PNP or 2 x NPN switchable  Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Mx. output current  N/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  yes	Operating medium	
Ambient temperature 0 °C 50 °C  Accuracy in ± % FS 1.5 %FS  Repetition accuracy in ± %FS 0.3 %FS  Temperature co-efficient in ± %FS/K 0.05 %FS/K  Switching output 2 x PNP or 2 x NPN switchable  Switching function Window comparator Threshold value comparator Auto difference monitoring  Switching element function N/C contact/N/O contact switchable  Max. output current 100 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  2 x PNP or 2 x NPN switchable  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Max. output current  N/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  yes	Temperature of medium	0 ℃ 50 ℃
Repetition accuracy in ± %FS  Temperature co-efficient in ± %FS/K  Switching output  2 x PNP or 2 x NPN switchable  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Mx. output current  N/C contact/N/O contact switchable  100 mA  Short-circuit protection  9.3 %FS  0.3 %FS  N/C on 2 x NPN switchable  Window comparator Threshold value comparator Auto difference monitoring  N/C contact/N/O contact switchable  100 mA	Ambient temperature	0 ℃ 50 ℃
Temperature co-efficient in ± %FS/K  Switching output  2 x PNP or 2 x NPN switchable  Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  Max. output current  100 mA  Short-circuit protection  9.05 %FS/K  Window comparator Threshold value comparator Auto difference switchable  100 mA	Accuracy in ± % FS	1.5 %FS
Switching output  2 x PNP or 2 x NPN switchable  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  M/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  yes	Repetition accuracy in ± %FS	0.3 %FS
Switching function  Window comparator Threshold value comparator Auto difference monitoring  Switching element function  N/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  yes	Temperature co-efficient in ± %FS/K	0.05 %FS/K
Threshold value comparator Auto difference monitoring  Switching element function  N/C contact/N/O contact switchable  Max. output current  100 mA  Short-circuit protection  yes	Switching output	2 x PNP or 2 x NPN switchable
Max. output current 100 mA Short-circuit protection yes	Switching function	Threshold value comparator
Short-circuit protection yes	Switching element function	N/C contact/N/O contact switchable
· · · · · · · · · · · · · · · · · · ·	Max. output current	100 mA
DC operating voltage range 15 V 30 V	Short-circuit protection	yes
	DC operating voltage range	15 V 30 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
Electrical connection for input 1, connection pattern	00995428
Type of mounting	Front panel mounting With thread With wall/surface bracket
Mounting position	Any
Pneumatic connection	External thread G1/8 Internal thread M5
Product weight	46 g
Housing material	PA-reinforced
Materials in contact with the media	FPM High-alloy stainless steel
Display type	Illuminated LCD
Displayable unit(s)	MPa bar inH2O inHg kPa kgf/cm² mbar 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% by mass of 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