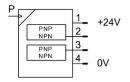
Pressure sensor SPAN-P10R-G18M-PN-PN-L1

Part number: 8035544







Data sheet

General operating condition

Symbol 00995686 Approval RCM trademark c U. U. silsted (OL) CE mark (see declaration of conformity) To EU EMC Directive in accordance with EU ROHS Directive. CE marking (see declaration of conformity) To UK instructions for EMC TO UK ROHS Instructions. Certificate issuing authority U. E322346 Note on materials ROH5-compliant Measured variable Relative pressure Measurement method Piezoresistive pressure sensor Start value for pressure measuring range 0 MPa Start value for pressure measuring range 0 bar Start value for pressure measuring range 1 MPa End value for pressure measuring range 1 MPa End value for pressure measuring range 1 Dar End value for pressure measuring range 1 S bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 10 compressed air to ISO 8573-1;2010 [7:4:4] Operating medium Uubricated operation possible Media temperature 0 °C 50 °C <th>Feature</th> <th>Value</th>	Feature	Value
CE mark (see declaration of conformity) CE marking (see declaration of conformity) CE marking (see declaration of conformity) CE 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 Reasurement method Reasurement method Start value for pressure measuring range OMPa Start value for pressure measuring range Ob bar Start value for pressure measuring range Opsi End value for pressure measuring range In Value for pressure description pressure In Value for pressure description	Symbol	00995686
In accordance with EU ROHS Directive CE marking (see declaration of conformity) To UK instructions for EMC to UK RoHS instructions Certificate issuing authority UL E322346 Note on materials Neasure duraible Max. overload pressure Operating medium Note on operating and pilot medium Media temperature Media temperature Accuracy in ± %FS Repetition accuracy in ± %FS/K Switching element function Max. output current Switching element function Max. output current Switching element function Max. output current Meanure function Note on Opa Switching element function Max. output current Meanure Meanure Meanure To UK RoHS instructions for EMC To UK RoHS instructions ROHC To UK RoHS instructions Note Not Seasons for EMC To UK RoHS instructions ROHS ROHS ROHS ROHS ROHS ROHS ROHS ROHS ROHS ACCHICACION FOR SEASONS To UK ROHS Instructions Note In Juk RoHS To UK ROHS Instructions Note In Juk RoHS To UK ROHS To UK ROHS Instructions Note In Juk RoHS To UK ROHS To UK ROHS To UK ROHS ROHS ROHS To UK ROHS ROHS To UK ROHS To UK ROHS ROHS ROHS To UK ROHS ROHS To UK R	Approval	
To UK ROHS instructions Certificate issuing authority UL 532346 Note on materials RoHS-compliant Measured variable Relative pressure Measurement method Piezoresistive pressure sensor Start value for pressure measuring range Obar Start value for pressure measuring range Obar Start value for pressure measuring range Individue for pressure deacured for pressure measuring range Individue for pressure deacured fo	CE mark (see declaration of conformity)	
Note on materials Measured variable Measurement method Piezoresistive pressure Measurement method Start value for pressure measuring range O bar Start value for pressure measuring range O bar Start value for pressure measuring range I MPa End value for pressure measuring range I S bar Overload pressure I 5 bar Overload pressure I 5 bar Overload pressure I 5 bar Overload pressure Overload pressure Oreload pressure Oreload pressure Oreload pressure Overload pressure I 5 bar Ove	CE marking (see declaration of conformity)	
Measured variable Relative pressure Measurement method Piezoresistive pressure sensor Start value for pressure measuring range 0 MPa Start value for pressure measuring range 0 psi End value for pressure measuring range 1 MPa End value for pressure measuring range 10 bar End value for pressure measuring range 10 bar End value for pressure measuring range 15 bar Max. overload pressure 15 bar Overload pressure 0.5 MPa Overload pressure 0.5 WF3 Operating medium Lubricated operation possible Media temperature 0 °C 50 °C Accuracy in ± WFS 1.5 WFS Repetition accuracy in ± WFS 1.5 WFS Switching output 2 x PNP or 2 x NPN, switchable Switching output 2 x PNP or 2 x NPN, switchable	Certificate issuing authority	UL E322346
Measurement method Piezoresistive pressure sensor Start value for pressure measuring range Obar Start value for pressure measuring range Opsi End value for pressure measuring range 1 1 MPa End value for pressure measuring range 1 10 bar End value for pressure measuring range 1 10 bar End value for pressure measuring range 1 15 bar Overload pressure of 15 bar Overload pressure 1 15 bar Overload pressure 2 17.5 psi 0 Operating medium 1 Lubricated operation possible 1 Lubricated operation possible 1 Dubricated operation possible 2 Dubricated o	Note on materials	RoHS-compliant
Start value for pressure measuring range Start value for pressure measuring range O bar Start value for pressure measuring range O psi End value for pressure measuring range I MPa End value for pressure measuring range In WPa End value for pressure for pressu	Measured variable	Relative pressure
Start value for pressure measuring range 0 bar Start value for pressure measuring range 1 MPa End value for pressure measuring range 10 bar End value for pressure measuring range 10 bar End value for pressure measuring range 10 bar End value for pressure measuring range 145 psi Max. overload pressure 15 bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 217.5 psi 215 bar Overload pres	Measurement method	Piezoresistive pressure sensor
Start value for pressure measuring range End value for pressure measuring range In the value for pressure measuring range In the value for pressure measuring range In the value for pressure for pressu	Start value for pressure measuring range	0 MPa
End value for pressure measuring range End value for pressure measuring range End value for pressure measuring range Individue for pressure measuring range Individue for pressure Indi	Start value for pressure measuring range	0 bar
End value for pressure measuring range End value for pressure measuring range Individue for pressure measuring range Individue for pressure Individue for pressu	Start value for pressure measuring range	0 psi
End value for pressure measuring range 145 psi Max. overload pressure 15 bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 15 bar Overload pressure 217.5 psi Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation possible Media temperature 0°C 50°C Ambient temperature 0°C 50°C Accuracy in ± % FS Repetition accuracy in ± %FS Repetition accuracy in ± %FS/K Switching output 2 x PNP or 2 x NPN, switchable Window comparator Auto difference monitoring Switching element function Mx. output current N/C or N/O contact, switchable Max. output current Nort circuit current rating yes	End value for pressure measuring range	1 MPa
Max. overload pressure Overload pressure 1.5 MPa Overload pressure 15 bar Overload pressure 15 bar Overload pressure Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation possible Media temperature O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Temperature coefficient in ± % FS/K Switching output Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function Max. output current Max. output current No max Short circuit current rating yes	End value for pressure measuring range	10 bar
Overload pressure Overload pressure 15 bar Overload pressure 217.5 psi Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation possible Media temperature O° C 50 ° C Ambient temperature O° C 50 ° C Accuracy in ± % FS Repetition accuracy in ± % FS Temperature coefficient in ± % FS/K Switching output Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function Mx. output current Mx. output current rating 15 MPa 15 MPa 16 MPa 16 MPa 17 MPa 18 MPa 18 MPa 19 MPa	End value for pressure measuring range	145 psi
Overload pressure Overload pressure Overload pressure Operating medium Operating and pilot medium Lubricated operation possible Media temperature Operating and pilot medium Lubricated operation possible Media temperature Operating and pilot medium Note on operating and pilot medium Lubricated operation possible Media temperature Operating and pilot medium Note on operating and pilot medium Lubricated operation possible Media temperature Operating and pilot medium Note on operating and pilot medium Note on operating and pilot medium Note on operating and pilot medium Lubricated operation possible Operating and pilot medium Note on operation possible Note on	Max. overload pressure	15 bar
Overload pressure 217.5 psi Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation possible Media temperature 0°C 50°C Ambient temperature 0°C 50°C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature coefficient 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 MyC or N/O contact, switchable Max. output current Monume Mo	Overload pressure	1.5 MPa
Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases Note on operating and pilot medium Lubricated operation possible Media temperature O°C50°C Ambient temperature O°C50°C Accuracy in ± % FS Repetition accuracy in ± %FS Temperature coefficient 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 MyC or N/O contact, switchable Max. output current Short circuit current rating O°C50°C Accuracy in ± %FS 0.3 %FS 0.3 %FS 2 x PNP or 2 x NPN, switchable Window comparator Threshold value comparator Auto difference monitoring Switching element function N/C or N/O contact, switchable	Overload pressure	15 bar
Note on operating and pilot mediumLubricated operation possibleMedia temperature0 °C 50 °CAmbient temperature0 °C 50 °CAccuracy in ± % FS1.5 % FSRepetition accuracy in ± % FS0.3 % FSTemperature coefficient in ± % FS/K0.05 % FS/KSwitching output2 x PNP or 2 x NPN, switchableSwitching functionWindow comparator Threshold value comparator Auto difference monitoringSwitching element functionN/C or N/O contact, switchableMax. output current100 mAShort circuit current ratingyes	Overload pressure	217.5 psi
Media temperature 0°C 50°C Ambient temperature 0°C 50°C Accuracy in ± % FS 1.5 %FS Repetition accuracy in ± %FS 0.3 %FS Temperature coefficient 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 or N/O contact, switchable Max. output current 100 mA Short circuit current rating yes	Operating medium	·
Ambient temperature 0 °C 50 °C Accuracy in ± % FS Repetition accuracy in ± % FS Repetition accuracy in ± % FS Temperature coefficient 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 or N/O contact, switchable Max. output current Short circuit current rating yes	Note on operating and pilot medium	Lubricated operation possible
Accuracy in ± % FS Repetition accuracy in ± % FS Temperature coefficient 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 or N/O contact, switchable Max. output current Short circuit current rating yes	Media temperature	0 ℃ 50 ℃
Repetition accuracy in ± %FS Temperature coefficient 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 or N/O contact, switchable 100 mA Short circuit current rating yes	Ambient temperature	0 ℃ 50 ℃
Temperature coefficient 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 or N/O contact, switchable Max. output current 100 mA Short circuit current rating yes	Accuracy in ± % FS	1.5 %FS
Switching output Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function M/C or N/O contact, switchable Max. output current 100 mA Short circuit current rating yes	Repetition accuracy in ± %FS	0.3 %FS
Switching function Window comparator Threshold value comparator Auto difference monitoring Switching element function N/C or N/O contact, switchable Max. output current 100 mA Short circuit current rating yes	Temperature coefficient in ± %FS/K	0.05 %FS/K
Threshold value comparator Auto difference monitoring Switching element function Max. output current Short circuit current rating N/C or N/O contact, switchable yes	Switching output	2 x PNP or 2 x NPN, switchable
Max. output current 100 mA Short circuit current rating yes	Switching function	Threshold value comparator
Short circuit current rating yes	Switching element function	N/C or N/O contact, switchable
9	Max. output current	100 mA
Operational voltage range DC 15 V 30 V	Short circuit current rating	yes
	Operational voltage range DC	15 V 30 V

Feature	Value
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs
Electrical connection 1, connector system	Connection pattern L1J
Electrical connection 1, number of connections/cores	4
Electrical connection 1, connection pattern	00995428
Type of mounting	Front panel mounting Via thread Via wall/surface bracket
Mounting position	optional
Pneumatic connection	Male thread G1/8 Female thread M5
Product weight	46 g
Material housing	PA-reinforced
Material in contact with the medium	FPM High-alloy stainless steel
Display type	Illuminated LCD
Displayable units	MPa bar inH2O inHg kPa kgf/cm² mbar mmHg psi
Setting options	Teach-in Via display and keys
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 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