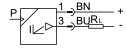
Pressure transmitter SPTW-B2R-G14-A-M12

Part number: 8000100







Data sheet

CUL us - Listed (OL) CE marking (see declaration of conformity) As per EU BMC directive As per EU RHS directive DKCA marking (see declaration of conformity) To UK Instructions for EMC To UK Notis instructions Note on materials Realstive pressure Method of measurement Pressure measuring range initial value O1 MPa 1 bar 1-0.5 psi 1-0.1 MPa 1 bar 1 bar 1.4.5 psi Max. overload pressure Overload pressure Operating medium Operating m	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 Plezoresistive 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 14.5 psi Max. overload pressure Overload pressure Outload pressure Out	Certification	
To UK RoHS instructions Note on materials Measured variable Method of measurement Pressure measuring range initial value Pressure measuring range end value Pressure measuring range end value O.1 MPa 1 bar -14.5 psi Pressure measuring range end value O.2 MPa 1 bar 1.6 psi Overload pressure Overload pressure Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium O °C80 °C Annbient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Analog output 4 - 20 mA Linearity error in ± % FS O.5 %FS Short-circuit protection yes DC operating voltage range Reverse polarity protection For operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	CE marking (see declaration of conformity)	
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 4.5 psi Max. overload pressure 2 bar Overload pressure 0.2 MPa 2 bar 29 psi Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium 0 °C80 °C Ancional temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	UKCA marking (see declaration of conformity)	
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 1.4.5 psi Max. overload pressure Overload pressure 0.2 MPa 2 bar 29 psi Operating medium Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media Temperature of medium 0°C80°C Anbient temperature 0°C80°C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	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 2 bar Overload pressure 0.2 MPa 2 bar 29 psi Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium 0 °C80 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection DC operating voltage range 8 V30 V Reverse polarity protection Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Measured variable	Relative pressure
Tressure measuring range end value Pressure measuring range end value Out MPa 1 bar 14.5 psi Max. overload pressure 2 bar Overload pressure Outerload pressure Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium O °C80 °C Ambient temperature Accuracy in ± % FS Repetition accuracy in ± % FS Analog output 4 - 20 mA Linearity error in ± % FS Outperating ror in ± % FS Short-circuit protection DC operating voltage range 8 V30 V Reverse polarity protection Flug Electrical connection 1, connection type Flug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Method of measurement	Piezoresistive pressure sensor
I bar 14.5 psi Max. overload pressure 2 bar Overload pressure 0.2 MPa 2 bar 29 psi Operating medium Compressed air as per ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Temperature of medium 0°C80°C Ambient temperature 0°C80°C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Pressure measuring range initial value	-1 bar
Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium O °C80 °C Ambient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS O.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Pressure measuring range end value	1 bar
2 bar 29 psi Operating medium Compressed air as per ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Temperature of medium O °C80 °C Ambient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Analog output 4 - 20 mA Linearity error in ± % FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Max. overload pressure	2 bar
Liquid media Gaseous media Temperature of medium O °C80 °C Ambient temperature O °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS O.1 %FS Analog output 4 - 20 mA Linearity error in ± % FS Short-circuit protection DC operating voltage range 8 V30 V Reverse polarity protection Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Overload pressure	2 bar
Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS Analog output 4 - 20 mA Linearity error in ± % FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Operating medium	Liquid media
Accuracy in ± % FS Repetition accuracy in ± % FS O.1 % FS Analog output 4 - 20 mA Linearity error in ± % FS O.5 % FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Temperature of medium	0 °C80 °C
Repetition accuracy in ± %FS Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection DC operating voltage range 8 V30 V Reverse polarity protection Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Ambient temperature	0 °C80 °C
Analog output 4 - 20 mA Linearity error in ± % FS 0.5 %FS Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Accuracy in ± % FS	1 %FS
Linearity error in ± % FS Short-circuit protection DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Repetition accuracy in ± %FS	0.1 %FS
Short-circuit protection yes DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Analog output	4 - 20 mA
DC operating voltage range 8 V30 V Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Linearity error in ± % FS	0.5 %FS
Reverse polarity protection for operating voltage Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Short-circuit protection	yes
Electrical connection 1, connection type Plug Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	DC operating voltage range	8 V30 V
Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Reverse polarity protection	for operating voltage
	Electrical connection 1, connection type	Plug
Electrical connection 1, number of pins/wires 4	Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
	Electrical connection 1, number of pins/wires	4

Feature	Value
Electrical connection 1, type of mounting	Screw-type lock
Material of plug housing	PA
Type of mounting	With internal thread With accessories
Mounting position	Any
Pneumatic connection	G1/4
Product weight	80 g
Housing material	PA VMQ (silicone) High-alloy stainless steel
Materials in contact with the media	High-alloy stainless steel
Degree of protection	IP67
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III