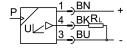
## Pressure transmitter SPTW-B11R-G14-VD-M12

Part number: 8000110







## **Data sheet**

CUL us - Listed (OL)  CE marking (see declaration of conformity)  As per EU RMC directive As per EU RMS directive  DIKCA marking (see declaration of conformity)  To UK Instructions for EMC To UK NotIs instructions  Note on materials  Relative pressure Metal thin-film pressure sensor  Metal thin-film pressure sensor  Pressure measuring range initial value  -0.1 MPa -1 bar -1 bar -1 4.5 psi  Pressure measuring range end value  1 MPa 10 bar 10 bar 10 bar 145 psi  Max. overload pressure  20 bar  Overload pressure  20 bar  Overload pressure  Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media  Temperature of medium  0 °C80 °C  Accuracy in ± % FS  1 %FS  Repetition accuracy in ± % FS  Analog output  0.1 - 10 V  Linearity error in ± % FS  OL operating voltage range  Reverse polarity protection  yes  Decoperating voltage range  Electrical connection 1, connection type  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101	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  Metal thin-film pressure sensor  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  Overload pressure  20 bar  Overload pressure  Operating medium  Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media  Temperature of medium  Ambient temperature  O °C80 °C  Accuracy in ± % FS  1 %FS  Repetition accuracy in ± %FS  Analog output  Linearity error in ± % FS  O.1 %FS  Analog output  Linearity error in ± % FS  O.5 %FS  Short-circuit protection  yes  Decoperating voltage range  Lettrical connection 1, connection type  Plug  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101	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  Pressure measuring range end value  1 MPa 1 b bar 14.5 psi  Pressure measuring range end value  20 bar 00	CE marking (see declaration of conformity)	
Measured variable       Relative pressure         Method of measurement       Metal thin-film pressure sensor         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       2 MPa 20 bar 20 bar 290 psi         Overload pressure       2 MPa 20 bar 290 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       0.1 - 10 V         Linearity error in ± % FS       0.5 %FS         Short-circuit protection       yes         DC operating voltage range       14 V30 V         Reverse polarity protection 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  1 MPa 10 bar 145 psi  Max. overload pressure  20 bar  Overload pressure  2 MPa 20 bar 290 psi  Operating medium  Compressed air as per ISO 8573-1:2010 [:] Liquid media Gaseous media  Temperature of medium  0 °C80 °C  Ancuracy in ± % FS  1 %FS  Repetition accuracy in ± %FS  0.1 %FS  Analog output  Linearity error in ± % FS  0.5 %FS  Short-circuit protection  DC operating voltage range  14 V30 V  Reverse polarity protection  Electrical connection 1, connection type  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  1 MPa 10 bar 145 psi  Max. overload pressure  20 bar  Overload pressure  2 MPa 20 bar 290 psi  Operating medium  Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media  Temperature of medium  0 °C80 °C  Anabient temperature  0 °C80 °C  Accuracy in ± % FS  1 %FS  Repetition accuracy in ± %FS  0.1 %FS  Analog output  Linearity error in ± % FS  0.5 %FS  Short-circuit protection  DC operating voltage range  14 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
The pressure measuring range end value  Pressure measuring range end value  In MPa 10 bar 145 psi  Max. 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  Ambient temperature  Accuracy in ± % FS  Repetition accuracy in ± % FS  Analog output  O.1 · 10 V  Linearity error in ± % FS  O.5 %FS  Short-circuit protection  DC operating voltage range  14 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	Metal thin-film pressure sensor
Max. overload pressure  20 bar Overload pressure  2 MPa 20 bar 290 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  0.1 - 10 V  Linearity error in ± % FS  0.5 %FS  Short-circuit protection  yes  DC operating voltage range  14 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  2 MPa 20 bar 290 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  1 %FS  Repetition accuracy in ± %FS  O.1 %FS  Analog output  0.1 - 10 V  Linearity error in ± % FS  O.5 %FS  Short-circuit protection  DC operating voltage range  14 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	10 bar
20 bar 290 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  O.1 %FS  Analog output O.1 - 10 V  Linearity error in ± % FS  Short-circuit protection yes  DC operating voltage range 14 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	20 bar
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  0.1 - 10 V  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  14 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	20 bar
Ambient temperature 0 °C80 °C  Accuracy in ± % FS 1 %FS  Repetition accuracy in ± %FS  Analog output 0.1 - 10 V  Linearity error in ± % FS  Short-circuit protection yes  DC operating voltage range 14 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  O.1 - 10 V  Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  DC operating voltage range  Reverse polarity protection  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  0.1 - 10 V  Linearity error in ± % FS  0.5 %FS  Short-circuit protection  DC operating voltage range  14 V30 V  Reverse polarity protection  Electrical connection 1, connection type  Electrical connection 1, connection technology  M12x1 A-coded as per EN 61076-2-101	Ambient temperature	0 °C80 °C
Analog output  Description of the protection of	Accuracy in ± % FS	1 %FS
Linearity error in ± % FS  Short-circuit protection  DC operating voltage range  14 V30 V  Reverse polarity protection  Electrical connection 1, connection type  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 14 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	0.1 - 10 V
DC operating voltage range 14 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	14 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