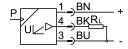
Pressure transmitter SPTW-P50R-G14-VD-M12

Part number: 8000116







Data sheet

C UL us listed (QL) 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 NoHs instructions Note on materials RoHS-compliant Measured variable Relative pressure Measurement method Metal thin-film pressure sensor O MPa O bar O psi End value for pressure measuring range S MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure Operating medium Operating medium Compressed air to ISO 8573-1:2010 [·····] Liquid media Gaseous media Media temperature Accuracy in ± % FS Accuracy in ± % FS Analogue output University FS O,5 %FS Short circuit current rating yes Electrical connection 1, connection type Electrical connection 1, connector system M1221, A-coded to EN 61076-2-101	Feature	Value
In accordance with EU RoHS Directive CE marking (see declaration of conformity) To UK RoHS instructions for EMC To UK RoHS instructions Note on materials Measured variable Measured variable Measurement method Start value for pressure measuring range O MPa O bar O psi End value for pressure measuring range End value for pressure measuring range End value for pressure measuring range Overload pressure Overload pressure Outpressure Operating medium Compressed air to ISO 8573-1:2010 [-:] Liquid media Gaseous media Media temperature Accuracy in ± % FS Analogue output Linearity error in ± %FS O 1 %FS Short circuit current rating Operating voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connection type Plugs Hu 2x1, A-coded to EN 61076-2-101	Approval	
Note on materials Note on materials Measured variable Measurement method Metal thin-film pressure sensor Start value for pressure measuring range End value for pressure measuring range S MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure Overload pressure Compressed air to ISO 8573-1;2010 [-:] Liquid media Gaseous media Media temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Analogue output Linearity error in ± %FS OPErating versure	CE mark (see declaration of conformity)	
Measured variable Measurement method Metal thin-film pressure sensor O MPa O bar O psi End value for pressure measuring range End value for pressure measuring range S MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure 100 bar Overload pressure 100 bar Operating medium Compressed air to ISO 8573-1:2010 [-:] Liquid media Gaseous media Media temperature 0 °C80 °C Andient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analogue output Linearity error in ± %FS 0.5 %FS Short circuit current rating yes Operating voltage range DC Reverse polarity protection Electrical connection 1, connection type Flugs Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	CE marking (see declaration of conformity)	
Metal thin-film pressure sensor Start value for pressure measuring range End value for pressure measuring range End value for pressure measuring range S MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure 10 MPa 100 bar 10	Note on materials	RoHS-compliant
Start value for pressure measuring range O MPa O bar O psi End value for pressure measuring range End value for pressure measuring range S MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure 10 MPa 100 bar 1450 psi Operating medium Compressed air to ISO 8573-1:2010 [-:] Liquid media Gaseous media Media temperature O °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS O.1 %FS Analogue output University error in ± %FS O.5 %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Measured variable	Relative pressure
O bar O psi End value for pressure measuring range 5 MPa 50 bar 725 psi Max. overload pressure 100 bar Overload pressure 10 MPa 100 bar Compressed air to ISO 8573-1:2010 [-:] Liquid media Gaseous media Media temperature 0 °C80 °C Annibient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analogue output 0.1 · 10 V Linearity error in ± %FS 0.5 %FS Short circuit current rating yes Operational voltage range DC 14 V30 V Reverse polarity protection For operating voltage Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Measurement method	Metal thin-film pressure sensor
50 bar 725 psi Max. overload pressure 100 bar Overload pressure 10 MPa 100 bar 1450 psi Operating medium Compressed air to ISO 8573-1:2010 [-::-] Liquid media Gaseous media Media temperature 0°C80°C Ambient temperature 0°C80°C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analogue output 0.1 · 10 V Linearity error in ± %FS Short circuit current rating yes Operational voltage range DC 14 V30 V Reverse polarity protection For operating voltage Electrical connection 1, connection type Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Start value for pressure measuring range	0 bar
Overload pressure 10 MPa 100 bar 1450 psi Compressed air to ISO 8573-1:2010 [-:] Liquid media Gaseous media Media temperature 0 °C80 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS 0.1 %FS Analogue output 0.1 - 10 V Linearity error in ± %FS 0.5 %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	End value for pressure measuring range	50 bar
100 bar 1450 psi Operating medium Compressed air to ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Media temperature O°C80 °C Ambient temperature O°C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Analogue output O.1 - 10 V Linearity error in ± %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Max. overload pressure	100 bar
Liquid media Gaseous media Media temperature 0 °C80 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 % FS Repetition accuracy in ± % FS Analogue output 0.1 · 10 V Linearity error in ± % FS Short circuit current rating yes Operational voltage range DC 14 V30 V Reverse polarity protection Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Overload pressure	100 bar
Ambient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± % FS O.1 % FS Analogue output O.1 - 10 V Linearity error in ± % FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connection type Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Operating medium	Liquid media
Accuracy in ± % FS Repetition accuracy in ± %FS O.1 %FS Analogue output O.1 - 10 V Linearity error in ± %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Media temperature	0 °C80 °C
Repetition accuracy in ± %FS Analogue output 0.1 - 10 V Linearity error in ± %FS 0.5 %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connection type Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Ambient temperature	0 °C80 °C
Analogue output Dinearity error in ± %FS O.5 %FS Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connection type Electrical connection 1, connector system Olivina V Electrical connection 1, connector system	Accuracy in ± % FS	1 %FS
Linearity error in ± %FS Short circuit current rating Operational voltage range DC Reverse polarity protection Electrical connection 1, connection type Electrical connection 1, connector system O.5 %FS 14 V30 V For operating voltage Plugs M12x1, A-coded to EN 61076-2-101	Repetition accuracy in ± %FS	0.1 %FS
Short circuit current rating Operational voltage range DC Reverse polarity protection For operating voltage Electrical connection 1, connection type Plugs M12x1, A-coded to EN 61076-2-101	Analogue output	0.1 - 10 V
Operational voltage range DC 14 V30 V Reverse polarity protection For operating voltage Electrical connection 1, connection type Plugs Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Linearity error in ± %FS	0.5 %FS
Reverse polarity protection For operating voltage Electrical connection 1, connection type Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Short circuit current rating	yes
Electrical connection 1, connection type Plugs Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Operational voltage range DC	14 V30 V
Electrical connection 1, connector system M12x1, A-coded to EN 61076-2-101	Reverse polarity protection	For operating voltage
·	Electrical connection 1, connection type	Plugs
Electrical connection 1, number of connections/cores 4	Electrical connection 1, connector system	M12x1, A-coded to EN 61076-2-101
	Electrical connection 1, number of connections/cores	4

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