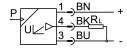
Pressure transmitter SPTW-P25R-G14-VD-M12

Part number: 8000115







Data sheet

CUL us - Listed (OL) CE marking (see declaration of conformity) As per EU BMC directive As per EU RMS directive DKCA 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 O MPa O bar O psi Pressure measuring range end value 2.5 MPa 2.5 bar 362.5 psi Max. overload pressure Overload pressure So bar Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium O °C80 °C Accuracy in ± % FS Analog output O 1-10 V Linearity error in ± % FS OL 5 %FS Short-circuit protection yes Pug Electrical connection 1, connection type Plug 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 O MPa O bar O psi Pressure measuring range end value 2.5 MPa 25 bar 362.5 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 Ambient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± % FS Analog output Linearity error in ± % FS OL operating voltage range 14 V30 V Reverse polarity protection Plug Electrical 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 Method of measurement Pressure measuring range initial value O MPa O bar O psi O psi Pressure measuring range end value 2.5 MPa 2.5 bar 362.5 psi Max. 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 Linearity error in ± % FS O.1 %FS Analog output OC 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	CE marking (see declaration of conformity)	
Measured variable Relative pressure Method of measurement Metal thin-film pressure sensor Pressure measuring range initial value 0 MPa 0 bar 0 psi Pressure measuring range end value 2.5 MPa 25 bar 362.5 psi Max. overload pressure 50 bar Overload pressure 5 MPa 50 bar 725 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)	
Metal thin-film pressure sensor Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value 2.5 MPa 25 bar 362.5 psi Max. overload pressure Overload pressure So bar Overload pressure So bar Operating medium Compressed air as per ISO 8573-1:2010 [:] Liquid media Gaseous media Temperature of medium O °C80 °C Andient temperature O °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS O.1 "FFS Analog output O.1 - 10 V Linearity error in ± % FS O.5 %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	Note on materials	RoHS-compliant
Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value 2.5 MPa 25 bar 362.5 psi Max. overload pressure Overload pressure So Dar Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media Temperature of medium O °C80 °C Anbient temperature O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Analog output Linearity error in ± % FS O.1 %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
O bar O psi Pressure measuring range end value 2.5 MPa 25 bar 362.5 psi Max. overload pressure 50 bar Overload pressure 5 MPa 50 bar 725 psi Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Temperature of medium 0 °C80 °C Ambient temperature Accuracy in ± % FS 1 %FS 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 for operating voltage Electrical connection 1, connection type Electrical connection 1, connection technology M12x1 A-coded as per EN 61076-2-101	Method of measurement	Metal thin-film pressure sensor
25 bar 362.5 psi Max. overload pressure 50 bar Overload pressure 5 MPa 50 bar 725 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	0 bar
Overload pressure 5 MPa 50 bar 725 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 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	Pressure measuring range end value	25 bar
50 bar 725 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	50 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	50 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 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	Accuracy in ± % FS	1 %FS
Linearity error in ± % 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	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