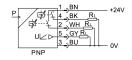
Pressure sensor SPAW-P6R-G12M-2PV-M12

Part number: 8022806







Data sheet

CUL us - Listed (OL) As per EU BMC directive AS per EU BMC directive AS per EU BMC directive To UK instructions for EMC To UK NoH's instructions Note on materials Relative pressure Measured variable Relative pressure Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value O MPa O bar SP psi Overload pressure 1.2 MPa 1.2 bar 1.74 psi Operating medium Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media Femperature of medium - 20 °C85 °C Ambient temperature O °C80 °C Severition accuracy in ± % FS Severition accuracy in ± SPS Severition	Feature	Value
As per EU ROHS directive JKCA marking (see declaration of conformity) To UK Instructions for EMC To UK ROHS instructions Note on materials Measured variable Piezoresistive pressure sensor O MPa O bar O psi Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value O MPa O 6 MPa O 6 bar 87 psi Diverload pressure 1.2 MPa 1.2 bar 174 psi Diperating medium Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media Gaseous media Pereperature of medium Po °C85 °C Accuracy in ± % FS Vergetition accuracy in ± % FS Switching output Versured Switching function Freely programmable Switching function Switchale Max. output current JESO MA JE	Certification	
To UK ROHS instructions Note on materials Measured variable Method of measurement Pressure measuring range initial value O MPa O bar O psi O psi Overload pressure Diverload pressure Diverload pressure Diverload pressure O Desait of the second of	CE marking (see declaration of conformity)	
Relative pressure Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value O MPa O bar O psi Overload pressure Overload pressure Operating medium Operating medium Operating medium Operating specific projection Overload pressure O C85 °C Overload pressure O °C85 °C Overload temperature O °C85 °C Overload pressure Overload pressure O °C85 °C Overload pressure Overload pr	UKCA marking (see declaration of conformity)	
Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value Overload pressure Diverload pressure Diverload pressure 1.2 MPa 1.2 bar 1.74 psi Operating medium Compressed air as per ISO 8573-1:2010 [-::-] Liquid media Gaseous media Femperature of medium -20 °C85 °C Ambient temperature O °C80 °C Accuracy in ± % FS Diverload pressure Diverload pressure 1.8FS Repetition accuracy in ± %FS O.15 %FS Switching output Switching function Freely programmable Switching element function Max. output current Analog output O · 10 V Rise time 3 ms Short-circuit protection yes O operating voltage range 15 V35 V	Note on materials	RoHS-compliant
O MPa 0 bar 0 psi	Measured variable	Relative pressure
O bar O psi O perassure measuring range end value O perassure O perating medium O perating per ISO 8573-1:2010 [:] Liquid media Gaseous media O perating o perating per ISO 8573-1:2010 [:] Liquid media Gaseous media O perating o perating per ISO 8573-1:2010 [:] Liquid media Gaseous media O perating per ISO 8573-1:2010 [:] Liquid media Gaseous media O perating o perating per ISO 8573-1:2010 [:] Liquid media Gaseous media O perating voltage range O perating voltage range O parating voltage range O	Method of measurement	Piezoresistive pressure sensor
6 bar 87 psi Diverload pressure 1.2 MPa 12 bar 174 psi Compressed air as per ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Femperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 % FS Repetition accuracy in ± % FS 0.15 % FS Switching output 2xPNP Switching function Freely programmable Switching element function Max. output current Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes DC operating voltage range 15 V35 V	Pressure measuring range initial value	0 bar
12 bar 174 psi Deparating medium Compressed air as per ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Femperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 % FS Repetition accuracy in ± % FS Switching output 2xPNP Switching function Freely programmable Switching element function Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Pressure measuring range end value	6 bar
Liquid media Gaseous media Femperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS O.15 %FS Switching output 2xPNP Switching function Freely programmable Switchable Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Overload pressure	12 bar
Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS Switching output 2xPNP Switching function Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Operating medium	Liquid media
Accuracy in ± % FS Repetition accuracy in ± % FS Switching output Switching function Freely programmable Switching element function Switchable Max. output current Analog output O - 10 V Rise time 3 ms Short-circuit protection yes Co operating voltage range 15 V35 V	Temperature of medium	-20 °C85 °C
Repetition accuracy in ± %FS Switching output 2xPNP Switching function Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Ambient temperature	0 °C80 °C
2xPNP Switching function Freely programmable Switchable Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Accuracy in ± % FS	1 %FS
Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Repetition accuracy in ± %FS	0.15 %FS
Switching element function Switchable 250 mA Analog output O - 10 V Rise time 3 ms Short-circuit protection yes C operating voltage range 15 V35 V	Switching output	2xPNP
Max. output current 250 mA Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Switching function	Freely programmable
Analog output 0 - 10 V Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Switching element function	Switchable
Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Max. output current	250 mA
Short-circuit protection yes OC operating voltage range 15 V35 V	Analog output	0 - 10 V
OC operating voltage range 15 V35 V	Rise time	3 ms
	Short-circuit protection	yes
Reverse polarity protection for operating voltage	DC operating voltage range	15 V35 V
	Reverse polarity protection	for operating voltage

Feature	Value
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection 1, number of pins/wires	5
Electrical connection 1, type of mounting	Screw-type lock
Type of mounting	With external thread
Mounting position	Any
Pneumatic connection	External thread G1/2
Product weight	230 g
Housing material	ABS High-alloy stainless steel
Materials in contact with the media	High-alloy stainless steel
Sealing ring material	NBR
Display type	4-character alphanumeric LED display
Displayable unit(s)	MPa bar kPa kg/cm² psi
Switching status indication	LED red
Setting options	Via display and pushbuttons
Protection against tampering	PIN code
Setting range threshold value	0.5 %100 %
Setting range hysteresis	0.5 %99.5 %
Degree of protection	IP65 IP67
Corrosion resistance class (CRC)	4 - Particularly high corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III