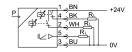
Pressure sensor SPAW-P2R-G14F-2PA-M12

Part number: 8022778







Data sheet

CULus - Listed (OL) As per EU BMC directive As per EU RMC directive As per EU RMC directive As per EU RMC directive AS per EU RMC directive DKCA marking (see declaration of conformity) To UK RohSt instructions Note on materials RohSt-compliant Relative pressure Measured variable Relative pressure Method of measurement Pressure measuring range initial value On MPa O bar O pasi O bar O pasi O beressure measuring range end value O MPa O bar O pasi O Depreciating medium Compressed air as per ISO 8573-1:2010 [:] Uquid media Gaseous media Femperature of medium O Cc85 °C O C85 °	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 Measured variable Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value 20.2 MPa 29 psi Overload pressure 4.4 MPa 4 bar 58 psi Operating medium Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media Gaseous media Gaseous media Membient temperature O *C80 *C Accuracy in ± % FS Septition accuracy in ± % FS Switching output Every programmable Switching lement function Max. output current JCO mp Switchale Max. output current JCO mp Switchale JCO mp J	Certification	
To UK ROHS instructions Note on materials Measured variable Method of measurement Pressure measuring range initial value Oressure measuring range end value Pressure measuring range end value Overload pressure Overload pressure Operating medium Operating mediu	CE marking (see declaration of conformity)	
Measured variable Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value Overload pressure Overload pressure Operating medium Operating medium Operating medium Operating special measuring Operating medium Operating medi	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 O MPa O Da MPa O	Note on materials	RoHS-compliant
O MPa O bar O psi O MPa O psi O MPa O psi O MPa O psi O MPa O psi O psi O MPa O psi O psi O MPa	Measured variable	Relative pressure
O bar O psi O psi O psi O psi O psi O psi O por Sure measuring range end value O person	Method of measurement	Piezoresistive pressure sensor
2 bar 29 psi Overload pressure 0.4 MPa 4 bar 58 psi Operating 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 0.15 %FS Switching output 2xPNP Switching function Freely programmable Switching element function Max. output current Analog output 4 - 20 mA Analog output 4 - 20 mA Sise time 3 ms Short-circuit protection yes DC operating voltage range	Pressure measuring range initial value	0 bar
4 bar 58 psi Operating 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 Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Pressure measuring range end value	2 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 4 - 20 mA Rise time 3 ms Short-circuit protection yes DC operating voltage range 15 V35 V	Overload pressure	4 bar
Ambient temperature 0 °C80 °C Accuracy in ± % FS 1 %FS Repetition accuracy in ± %FS O.15 %FS Switching output 2xPNP Switching function Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 4 - 20 mA 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 2xPNP Switching function Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Temperature of medium	-20 °C85 °C
Repetition accuracy in ± %FS Switching output 2xPNP Switching function Freely programmable Switchable Max. output current 250 mA Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 0.15 %FS 0.15 %FS 0.15 %FS 3 mPS 5 witchable 2xPNP 5 witchable 2y om A 3 ms 5 hort-circuit protection yes	Ambient temperature	0 °C80 °C
Switching output 2xPNP Switching function Freely programmable Switchable Max. output current 250 mA Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 2xPNP Freely programmable Switchable 250 mA 4 - 20 mA 3 ms Short-circuit protection yes	Accuracy in ± % FS	1 %FS
Freely programmable Switching element function Switchable Max. output current 250 mA Analog output 4 - 20 mA 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 Max. output current 250 mA Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Switching output	2xPNP
Max. output current 250 mA Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes OC operating voltage range 15 V35 V	Switching function	Freely programmable
Analog output 4 - 20 mA 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	4 - 20 mA
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 internal thread With accessories
Mounting position	Any
Pneumatic connection	Internal thread G1/4
Product weight	230 g
Housing material	ABS High-alloy stainless steel
Materials in contact with the media	High-alloy stainless steel
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