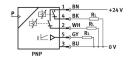
Pressure sensor SPAW-P2R-G12M-2PA-M12

FESTO

Part number: 8022787





Data sheet

c UL us - Listed (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RNHS directive DUKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Note on materials ROHS-compliant Measured variable Relative pressure Method of measurement Piezoresistive pressure sensor Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value O. 2 MPa 2 bar 29 psi Overload pressure O-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 Accuracy in ± %FS Note in ± %FS O.15 %FS Switching output 2 XPNP Switching output Switching lement function Switchable Max. output current Alaciog output Alaciog output See UL as Per EU RNH directive As per EU EMC directive To UK RoHS directive To UK RoHS instructions Pressure To UK RoHS instruction per EUM To UK RoHS instructions To UK RoHS	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 Measured variable Measured variable Method of measurement Pressure measuring range initial value O MPa O bar O psi Pressure measuring range end value O2. MPa 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 Temperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS Switching output 2xPNP Switching function Freely programmable Switching lement function Max. output current Analog output 4 - 20 mA Alalog output Ala Coperating voltage range DC operating voltage range 15 V35 V	Certification	and the second s
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 Overload pressure Operating medium Operating medium Itemperature of medium Ambient temperature Anbient temperature Accuracy in ± %FS Switching output Switching lement function Max. output current Analog output Relative pressure Pressure Relative pressure Pressure Pressure O MPa O bar O MPa O MPa O bar O MPa	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 Operatin	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 O.2 MPa 2 bar 29 psi Overload pressure Overload pressure Operating medium Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Imperature of medium -20 °C85 °C Ambient temperature O °C80 °C Accuracy in ± % FS Accuracy in ± % FS O.15 %FS Switching output Switching function Switching function Switching lement function Max. output current Analog output Switching element function Max. output current Analog output Sie time 3 ms Short-circuit protection yes DC operating voltage range	Note on materials	RoHS-compliant
Pressure measuring range initial value O MPa O bar O psi O psi O MPa O bar O psi O psi O psi O psi O A MPa A bar A bar A bar A bar A bar A bar O Se psi O Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media Caseous media O ° C85 ° C O Securacy in ± % FS O 1.5 % FS Switching output O psi Switching output O psi Switching function Freely programmable Switching element function Switchable Max. output current O psi O parating voltage range O psi O poperating voltage range O MPa O bar O parating voltage range O MPa O bar O parating voltage range O A MPa O bar O parating voltage range O A MPa O A MPa O bar O parating voltage range O MPa O parating voltage range O parating voltage	Measured variable	Relative pressure
O bar O psi Pressure measuring range end value O.2 MPa 2 bar 29 psi Overload pressure O.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 O °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Switching output 2xPNP Switching function Freely programmable Switching element function Switching element function Max. output current Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes DC operating voltage range 15 V35 V	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 O.15 %FS Switching output 2xPNP Switching function Freely programmable Switchable Max. output current Analog output 4 - 20 mA Analog output Xes Short-circuit protection yes DC operating voltage range 15 V35 V	Pressure measuring range initial value	0 bar
4 bar 58 psi Departing medium Compressed air as per ISO 8573-1:2010 [-:-:-] Liquid media Gaseous media Temperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS Repetition accuracy in ± %FS Switching output 2xPNP Switching function Freely programmable Switching element function 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	Pressure measuring range end value	2 bar
Liquid media Gaseous media Temperature of medium -20 °C85 °C Ambient temperature 0 °C80 °C Accuracy in ± % FS 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 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 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 DC operating voltage range 15 V35 V	Operating medium	Liquid media
Accuracy in ± % FS 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 DC 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 DC operating voltage range 0.15 %FS 2xPNP Freely programmable Switchable 2yn mA 3 ms 3 ms 5 bort-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 DC operating voltage range 2xPNP Freely programmable Switchable 2yo mA 4 - 20 mA 3 ms 5 V35 V	Accuracy in ± % FS	1 %FS
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 DC 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 DC 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 DC operating voltage range 15 V35 V	Switching function	Freely programmable
Analog output 4 - 20 mA Rise time 3 ms Short-circuit protection yes DC operating voltage range 15 V35 V	Switching element function	Switchable
Rise time 3 ms Short-circuit protection yes DC operating voltage range 15 V35 V	Max. output current	250 mA
Short-circuit protection yes DC operating voltage range 15 V35 V	Analog output	4 - 20 mA
DC 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	