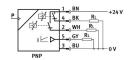
## Pressure sensor SPAW-P25R-G12M-2PA-M12

**FESTO** 

Part number: 8022791





## **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 RNHS 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 25 bar 362.5 psi  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  -20 °C85 °C  Ambient temperature  O °C80 °C  Accuracy in ± % FS  Negetition accuracy in ± % FS  Switching output  2xPNP  Switching output  5 MPA Alalog output  4 - 20 mA Rise time  Short-circuit protection yes  DC operating voltage range  15 V35 V	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  Overload pressure  So bar 725 psi  Operating medium  Compressed air as per ISO 8573-1:2010 [] Liquid media Gaseous media  Emperature of medium  -20 °C85 °C  Ambient temperature  O °C80 °C  Accuracy in ± % FS  Switching output  Switching durput  Every and the surface of medium  Alacouracy in ± %FS  Switching function  Freely programmable  Switching element function  Max. output current  Alacouracy in the surface of medium  Accuracy in the surface of medium of the surface of	Certification	
To UK ROHS instructions  Note on materials  Redstive pressure  Method of measurement  Method of measurement  Pressure measuring range initial value  O MPa O bar O par O par O par So bar 362.5 psi  Overload pressure  So MPa 50 bar 725 psi  Operating medium  Comperature of medium  Ambient temperature  O °C80 °C  Accuracy in ± %FS Switching output  Switching element function  Max. output current  Analog output  Max. output current  Max. output current  Analog output  Rise time Short-circuit protection  DC operating voltage range  DC operating voltage range  To UK ROHS instruction  Metal twive pressure  Relative pressure  Metal thin-film pressure  Metal thin-film pressure sensor  Metal	CE marking (see declaration of conformity)	
Measured variable Method of measurement Method of measure sensor  MPa 0 bar 0 psi  2.5 MPa 2.5 bar 362.5 psi  Overload pressure  S MPa 50 bar 725 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 1 %FS  Repetition accuracy in ± %FS 0.15 %FS  Switching output 2xPNP Switching output 5xwitching element function Switching element function Switching element function 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	UKCA marking (see declaration of conformity)	
Metal thin-film pressure sensor  O MPa O bar O psi  Pressure measuring range initial value  O MPa O bar O psi  Pressure measuring range end value  2.5 MPa 25 bar 362.5 psi  Overload pressure  S MPa 50 bar 725 psi  Operating medium  Compressed air as per ISO 8573-1:2010 [-:] Liquid media Gaseous media  Temperature of medium  -20 °C85 °C  Ambient temperature  O °C80 °C  Accuracy in ± % FS  1 %FS  Repetition accuracy in ± %FS  O.15 %FS  Switching output  Switching function  Freely programmable  Switching lement function  Max. output current  Analog output  4 · 20 mA  Analog output  Rise 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  Pressure measuring range end value  2.5 MPa 2.5 bar 362.5 psi  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  -20 °C85 °C  Anhient 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  4 - 20 mA  Rise time  3 ms  Short-circuit protection  yes  DC operating voltage range	Measured variable	Relative pressure
O bar O psi Pressure measuring range end value  2.5 MPa 25 bar 362.5 psi  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  -20 °C85 °C  Annibient 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  250 mA  Analog output  4 - 20 mA  Rise time  3 ms  Short-circuit protection  yes  DC operating voltage range	Method of measurement	Metal thin-film pressure sensor
25 bar 362.5 psi  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  -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  4 - 20 mA  Rise time  3 ms  Short-circuit protection  yes  DC operating voltage range	Pressure measuring range initial value	0 bar
50 bar 725 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  Repetition accuracy in ± % FS  Switching output  2xPNP  Switching function  Freely programmable  Switchable  Max. output current  Analog output  250 mA  Analog output  4 - 20 mA  Rise time  3 ms  Short-circuit protection  DC operating voltage range  15 V35 V	Pressure measuring range end value	25 bar
Liquid media Gaseous media  Temperature 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  Switchable  Switching element function  Max. output current  250 mA  Analog output  4 - 20 mA  Rise time  3 ms  Short-circuit protection  DC operating voltage range  15 V35 V	Overload pressure	50 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  DC operating voltage range  0.15 %FS  0.15 %FS  0.15 %FS  0.15 %FS  Switchable  Freely programmable  Switchable  250 mA  4 - 20 mA  15 V35 V	Ambient temperature	0 °C80 °C
Switching output  Switching function  Freely programmable  Switchable  Max. output current  Analog output  Rise time  Short-circuit protection  DC operating voltage range  2xPNP  Freely programmable  Switchable  250 mA  4 - 20 mA  3 ms  Short-circuit protection  yes  15 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  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  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	