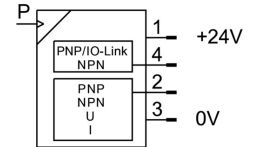


# Pressure sensor SPAU-P10R-H-G18FD-L-PNLK-PNVBA-M12U

FESTO

Part number: 8001220



## Data sheet

Feature	Value
Type code	SPAU
Electrical connection 1, connection technology	M12x1 A-coded as per EN 61076-2-101
Electrical connection for input 1, connection pattern	00995386
KC characters	KC EMC
Electrical connection 1, connection type	Plug
Electrical connection 1, number of pins/wires	4
Symbol	00995410
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
Note on materials	RoHS-compliant
Measured variable	Relative pressure
Method of measurement	Piezoresistive pressure sensor
Pressure measuring range initial value	0 bar
Pressure measuring range end value	10 bar
Max. overload pressure	15 bar
Operating medium	Inert gas Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible
Temperature of medium	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
ADC resolution	12 bit
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switching output	2 x PNP or 2 x NPN switchable
Switching function	Freely programmable
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA
Analog output	1 - 5 V 0 - 10 V 4 - 20 mA
Rise time	3 ms
Max. load resistance of current output	500 Ohm
Min. load resistance of voltage output	10 kOhm
Short-circuit protection	yes

Feature	Value
Protocol	IO-Link®
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile	Smart sensor profile
IO-Link®, function classes	Identification Diagnostics Teach channel Binary data channel (BDC) Process data variable (PDV)
IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, SIO mode support	Yes
IO-Link®, port class	A
IO-Link®, process data width OUT	0 Byte
IO-Link®, process data width IN	2 Byte
IO-Link®, process data content IN	14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring)
IO-Link®, minimum cycle time	3 ms
IO-Link®, data memory required	500 byte
DC operating voltage range	20 V ... 30 V
Reverse polarity protection	for all electrical connections
Type of mounting	With H-rail
Mounting position	Any
Pneumatic connection	G1/8
Product weight	70 g
Display type	Illuminated LCD
Displayable unit(s)	inchH2O MPa bar kPa inchHg kgf/cm <sup>2</sup> mmHg psi
Setting options	Via display and pushbuttons IO-Link® Teach-in
Protection against tampering	PIN code IO-Link®
Threshold value setting range	0 % ... 100 %
Hysteresis setting range	0 % ... 90 %
Degree of protection	IP65 IP67
Corrosion resistance class (CRC)	2 - Moderate corrosion stress