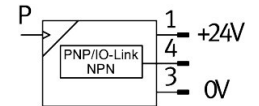


Pressure sensor

SPAF-P10R-Q4-N-PNLK-M8

Part number: 8181204

FESTO



Data sheet

Feature	Value
Certification	RCM compliance mark
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA 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	0 MPa 0 bar 0 psi
Pressure measuring range end value	1 MPa 10 bar 145 psi
Overload pressure	1.5 MPa 15 bar 217.5 psi
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Ester oil < 0.1mg/m ³ , according to ISO 8573-1:2010 [:-:2] Operation with oil lubrication possible
Temperature of medium	0 °C...50 °C
Ambient temperature	0 °C...50 °C
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	PNP/NPN switchable
Switching function	Window comparator Threshold value comparator Threshold value with variable hysteresis
Switching element function	N/C contact/N/O contact switchable
On time	3 ms
Switch-off time	3 ms
Max. output current	100 mA
Short-circuit protection	yes

Feature	Value
Protocol	IO-Link®
IO-Link, revision ID	V1.1
IO-Link, device profile	Firmware update Function Locator Function Product URI Function Quantity detection Smart Sensor - SSP 4.1.1
IO-Link, transmission rate	COM3
IO-Link®, SIO mode support	Yes
IO-Link, port type	Class A
IO-Link, process data length output	0 bit
IO-Link, process data length input	32 bit
IO-Link®, process data content IN	Pressure measured value 16 bit MDC Flow rate monitoring 2-bit SSC
IO-Link®, service data contents IN	Temperature 16 bit
IO-Link®, minimum cycle time	0.9 ms
IO-Link®, data memory required	0.5 KB
DC operating voltage range	15 V...30 V
Reverse polarity protection	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	M8x1 A-coded as per EN 61076-2-104
Electrical connection 1, number of pins/wires	3
Electrical connection 1, type of mounting	Snap-locking Screw-type lock not rotatable Compatible with snap-locking Compatible with rotatable screw-type lock
Material of plug housing	Brass, nickel-plated
Type of mounting	With accessories
Mounting position	Any
Pneumatic connection	QS-4
Product weight	30 g
Housing material	PA-reinforced
Materials in contact with the media	Stainless steel NBR PA-reinforced
Display type	LED display
Ready status indication	LED green
Switching status indication	LED yellow
Setting options	IO-Link® Teach-in
Protection against tampering	IO-Link®
Setting range threshold value	0 %...100 %
Setting range hysteresis	0 %...90 %
Degree of protection	IP65
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Suitability for the production of Li-ion batteries	Metals with more than 1% by mass of copper are excluded from use. Circuit boards, lines, electrical push-in connectors and coils are excluded
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1