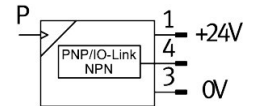


Pressure sensor SPAF-B11R-G18M-N-PNLK-M8

Part number: 8181211

FESTO



General operating condition

Data sheet

Feature	Value
Symbol	00997546
Approval	RCM
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Note on materials	RoHS compliant
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor
Start value for pressure measuring range	-0.1 MPa
Start value for pressure measuring range	-1 bar
Start value for pressure measuring range	-14.5 psi
End value for pressure measuring range	1 MPa
End value for pressure measuring range	10 bar
End value for pressure measuring range	145 psi
Overload pressure	1.5 MPa
Overload pressure	15 bar
Overload pressure	217.5 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Note on operating and pilot medium	Ester oil < 0.1mg/m ³ , according to ISO 8573-1:2010 [---:2] Lubricated operation possible
Media temperature	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature coefficient 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	NC or NO, switchable
Switch-on time	3 ms
Switch-off time	3 ms
Max. output current	100 mA
Voltage drop	1.6 V
Short circuit current rating	Yes
Overload protection	Available

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 Pressure monitoring 2 bit SSC
IO-Link, Service data IN	Temperature 16 bit
IO-Link, minimum cycle time	0.9 ms
IO-Link, Data storage required	500 Byte
Operational voltage range DC	15 V ... 30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connector system	M8x1, A-coded, to EN 61076-2-104
Electrical connection 1, number of connections/cores	3
Electrical connection 1, type of mounting	Snap-locking Screw-type lock Not rotatable
Electrical connection 1, compatible type of mounting	Compatible with latching lock Compatible with rotatable screw-type lock
Electrical connection 1, connection pattern	00991155
Material connector housing	Brass, nickel-plated
Type of mounting	With male thread
Mounting position	Any
Pneumatic connection	Male thread G1/8
Product weight	45 g
Material housing	Reinforced PA
Material in contact with the medium	Stainless steel NBR Reinforced PA
Display type	LED indicator
Ready status indication	Green LED
Switching status indication	Yellow LED
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. Exceptions are printed circuit boards, cables, electrical connectors and coils.
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1