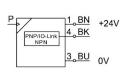
## **Pressure sensor** SPAE-P10R-S4-PNLK-2.5K Part number: 8001445



## **Data sheet**

CE mark (see declaration of conformity)       1         UKCA marking (see declaration of conformity)       1         UKCA marking (see declaration of conformity)       1         Certificate issuing authority       1         Note on materials       F         Measured variable       F         Measurement method       F         Start value for pressure measuring range       0	RCM trademark c UL us - Recognized (OL) To EU EMC Directive In accordance with EU RoHS Directive To UK instructions for EMC To UK RoHS instructions UL E322346 RoHS-compliant Relative pressure Piezoresistive pressure sensor with display 0 MPa
I     I       UKCA marking (see declaration of conformity)     1       Certificate issuing authority     1       Note on materials     F       Measured variable     F       Measurement method     F       Start value for pressure measuring range     0	In accordance with EU RoHS Directive To UK instructions for EMC To UK RoHS instructions UL E322346 RoHS-compliant Relative pressure Piezoresistive pressure sensor with display
1     1       Certificate issuing authority     1       Note on materials     F       Measured variable     F       Measurement method     F       Start value for pressure measuring range     0	To UK RoHS instructions UL E322346 RoHS-compliant Relative pressure Piezoresistive pressure sensor with display
Note on materials       F         Measured variable       F         Measurement method       F         Start value for pressure measuring range       G	RoHS-compliant Relative pressure Piezoresistive pressure sensor with display
Measured variable     F       Measurement method     F       Start value for pressure measuring range     C	Relative pressure Piezoresistive pressure sensor with display
Measurement method F Start value for pressure measuring range	Piezoresistive pressure sensor with display
Start value for pressure measuring range	
(	∩ MPa
	0 bar 0 psi
1	1 MPa 10 bar 145 psi
1	1.5 MPa 15 bar 217.5 psi
Operating medium (	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible
Media temperature d	0 ℃50 ℃
Ambient temperature 0	0 ℃50 ℃
Resolution ADC 1	10 bit
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS 0	0.3 %FS
Temperature coefficient in ± %FS/K	0.05 %FS/K
Switching output F	PNP/NPN, switchable
Switching function F	Freely programmable
1	N/C contact N/O contact Switchable
Switch-on time	1 ms
Switch-off time 1	1 ms

## **FESTO**



Feature	Value
Max. output current	100 mA
Display range start value	0 %FS
Display range end value	99 %FS
Short circuit current rating	yes
Protocol	IO-Link®
IO-Link, Protocol version	Device V 1.1
IO-Link, Profile	Smart sensor profile
IO-Link, Function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link, communication mode	COM2 (38.4 kBaud)
IO-Link, SIO-Mode support	Yes
IO-Link, Port class	A
IO-Link, Process data length OUT	0 bytes
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	14 bit PDV (pressure measurement value) 2 bit BDC (pressure monitoring)
IO-Link, Min. cycle time	3 ms
IO-Link, Data storage required	0.5 KB
Operational voltage range DC	18 V30 V
Reverse polarity protection	For all electrical connections
Electrical connection	3-wire Cable Open end
Cable length	2.5 m
Type of mounting	Plug-in
Mounting position	optional
Pneumatic connection	Push-in sleeve QS-4
Product weight	40 g
Material housing	PA-reinforced
Material sealing ring	FPM
Display type	LED indicator 2-digit
Displayable units	%FS
Switching status indication	Yellow LED
Setting options	IO-Link® Teach-in Via display and keys
Protection against tampering	PIN code
Setting range threshold value	1 %98 %
Degree of protection	IP40
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Suitability for the production of Li-ion batteries	Product corresponds to the internal product definition from Festo for use in battery production:Metals with more than 1% by mass of copper, zinc or nickel are excluded from use.The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1