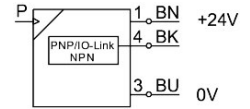


Pressure sensor SPAE-P10R-S6-PNLK-2.5K

Part number: 8001446

FESTO



[General operating condition](#)

Data sheet

Feature	Value
Symbol	00995430
Approval	RCM c UL us - Recognised (Oil)
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
Certificate issuing authority	UL E322346
Note on materials	RoHS compliant
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor with display
Start value for pressure measuring range	0 MPa
Start value for pressure measuring range	0 bar
Start value for pressure measuring range	0 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]
Note on operating and pilot medium	Lubricated operation possible
Media temperature	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
Resolution ADC	10 bit
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	Freely programmable
Switching element function	Switchable
Switch-on time	1 ms
Switch-off time	1 ms
Max. output current	100 mA
Display range start value	0 %FS
Display range end value	99 %FS
Short circuit current rating	Yes

Feature	Value
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	500 Byte
Operational voltage range DC	18 V ... 30 V
Reverse polarity protection	For all electrical connections
Electrical connection	3-core Cable Open end
Cable length	2.5 m
Type of mounting	Plug-in
Mounting position	Any
Pneumatic connection	Push-in sleeve QS-6
Product weight	40 g
Material housing	Reinforced PA
Material sealing ring	Fluoro rubber
Display type	LED indicator 2 digits
Displayable units	%FS
Switching status indication	Yellow LED
Setting options	IO-Link® Teach-in Via display and buttons
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	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 4 according to ISO 14644-1