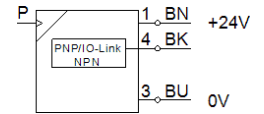
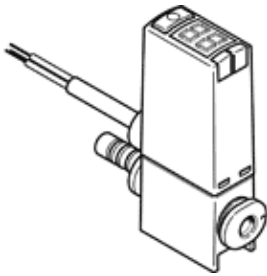


pressure sensor SPAE-P10R-Q3-PNLK-2.5K

Part number: 8001447

FESTO



Data sheet

Feature	Value
Authorisation	RCM Mark c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC in accordance with EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing department	UL E322346
Materials note	Conforms to RoHS
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor with display
Pressure measuring range start value (MPa)	0 MPa
Pressure measuring range, initial value	0 bar
Pressure measuring range start value (psi)	0 psi
Pressure measuring range end value (MPa)	1 MPa
Pressure measuring range, final value	10 bar
Pressure measuring range end value (psi)	145 psi
Overload pressure	1.5 MPa 15 bar
Overload pressure (psi)	217.5 psi
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible
Medium temperature	0 ... 50 °C
Ambient temperature	0 ... 50 °C
Resolution of analogue/digital converter	10 Bit
Accuracy, FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switch output	PNP/NPN, switchable
Switching function	Freely programmable
Switching element function	Normally closed contact Normally open contact Switchable
Switch-on time	1 ms
Switch-off time	1 ms
Max. output current	100 mA
Indicating range, lower limit	0 %FS
Indicating range, upper limit	99 %FS
Short circuit strength	Yes
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel

Feature	Value
IO-Link, communication mode	COM2 (38,4 kBaud)
IO-Link, SIO mode support	Yes
IO-Link, port type	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 reading) 2 bit BDC (pressure monitoring)
IO-Link, minimum cycle time	3 ms
IO-Link, data memory required	0.5 Kilobyte
Operating voltage range DC	18 ... 30 V
Polarity protected	for all electrical connections
Electrical connection	3-core Cable Open end
Cable length	2.5 m
Mounting type	with accessories
Assembly position	Any
Pneumatic connection	QS-3
Product weight	40 g
Material housing	PA-reinforced
Material sealing ring	FPM NBR
Type of display	LED display 2-digit
Unit(s) that can be displayed	%FS
Operating status display	Yellow LED
Setting options	IO-Link Teach-In Via display and buttons
Protection against manipulation	PIN-Code
Threshold value setting range	1 ... 98 %
Protection class	IP40
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B2-L
Cleanroom class	ISO class 4