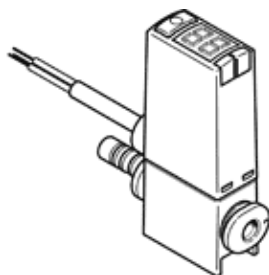


pressure sensor SPAE-P10R-Q3-PNLK-2.5K

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
Materials note	Conforms to RoHS
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor with display
Pressure measuring range, initial value	0 bar
Pressure measuring range, final value	10 bar
Overload range	15 bar
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
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
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	Cable

Feature	Value
	Open end 3-core
Cable length	2.5 m
Mounting type	with accessories
Assembly position	Any
Pneumatic connection	QS-3
Product weight	40 g
Material housing	PA-reinforced
Type of display	LED display 2-digit
Unit(s) that can be displayed	%FS
Operating status display	Yellow LED
Setting options	Teach-In IO-Link 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