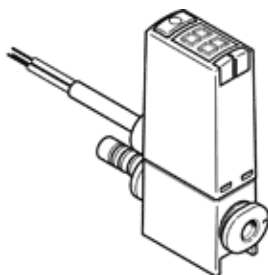


# pressure sensor SPAE-V1R-Q3-PNLK-2.5K

Part number: 8001442

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
KC mark	KC-EMV
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	-1 bar
Overload range	5 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

<b>Feature</b>	<b>Value</b>
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	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