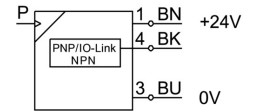


# Pressure sensor SPAE-V1R-Q3-PNLK-2.5K

Part number: 8001442

**FESTO**



## Data sheet

Feature	Value
Type code	SPAE
KC characters	KC EMC
Symbol	00995430
Certification	RCM compliance mark c UL us - Recognized (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
Note on materials	RoHS-compliant
Measured variable	Relative pressure
Method of measurement	Piezoresistive pressure sensor with display
Pressure measuring range initial value	0 bar
Pressure measuring range end value	-1 bar
Max. overload pressure	5 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible
Temperature of medium	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
ADC resolution	10 bit
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switching output	PNP/NPN switchable
Switching function	Freely programmable
Switching element function	N/C contact N/O contact Switchable
Max. output current	100 mA
Display range start value	0 %FS
Display range end value	99 %FS
Short-circuit protection	yes
Protocol	IO-Link®
IO-Link®, protocol version	Device V 1.1
IO-Link®, profile	Smart sensor profile
IO-Link®, function classes	Diagnostics Identification Process data variable (PDV) Binary data channel (BDC) Teach channel

Feature	Value
IO-Link®, communication mode	COM2 (38,4 kBd)
IO-Link®, SIO mode support	Yes
IO-Link®, port class	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 measurement) 2 bit BDC (pressure monitoring)
IO-Link®, minimum cycle time	3 ms
IO-Link®, data memory required	500 byte
DC operating voltage range	18 V ... 30 V
Reverse polarity protection	for all electrical connections
Electrical connection	3-wire Cable Open end
Cable length	2.5 m
Type of mounting	With accessories
Mounting position	Any
Pneumatic connection	QS-3
Product weight	40 g
Housing material	PA-reinforced
Sealing ring material	NBR
Display type	LED display 2-digit
Displayable unit(s)	%FS
Switching status indication	LED yellow
Setting options	Via display and pushbuttons IO-Link® Teach-in
Protection against tampering	PIN code
Threshold value setting range	1 % ... 98 %
Degree of protection	IP40
Corrosion resistance class (CRC)	2 - Moderate corrosion stress