

Pressure sensor SPAN-B-B2R-Q4-PN-L1

Part number: 8114760

FESTO



General operating condition

Data sheet

Feature	Value
Symbol	00997331
Approval	RCM trademark c UL us listed (OL)
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
Note on materials	RoHS-compliant
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor
Start value for pressure measuring range	-0.1 MPa
Start value for pressure measuring range	-1 bar
Start value for pressure measuring range	-14.5 psi
End value for pressure measuring range	0.1 MPa
End value for pressure measuring range	1 bar
End value for pressure measuring range	14.5 psi
Max. overload pressure	5 bar
Overload pressure	0.5 MPa
Overload pressure	5 bar
Overload pressure	72.5 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gas
Note on operating and pilot medium	Lubricated operation possible
Media temperature	0 °C ... 50 °C
Ambient temperature	0 °C ... 50 °C
Accuracy in ± % FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature coefficient in ± %FS/K	0.1 %FS/K
Switching output	PNP/NPN, switchable
Switching function	Window comparator Threshold value comparator
Switching element function	N/C or N/O contact, switchable
Max. output current	80 mA
Short circuit current rating	yes
Operational voltage range DC	10.8 V ... 30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs

Feature	Value
Electrical connection 1, connector system	Connection pattern L1]
Electrical connection 1, number of connections/cores	4
Electrical connection 1, connection pattern	00995428
Type of mounting	Front panel mounting Via wall/surface bracket
Mounting position	optional
Pneumatic connection	For tubing O.D. 4 mm
Product weight	21 g
Material housing	PA-reinforced
Material in contact with the medium	FPM NBR PA-reinforced
Display type	Illuminated LCD
Displayable units	MPa bar inHg kPa mmHg psi
Setting options	Teach-in Via display and keys
Protection against tampering	PIN code
Setting range threshold value	0 % ... 100 %
Setting range hysteresis	0 % ... 90 %
Degree of protection	IP40
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/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