

pressure sensor

SPAN-B-B11R-R18M-PN-L1

Part number: 8114753

FESTO



Data sheet

Feature	Value
Authorisation	RCM Mark c UL us - Listed (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
Materials note	Conforms to RoHS
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor
Pressure measuring range start value (MPa)	-0.1 MPa
Pressure measuring range, initial value	-1 bar
Pressure measuring range start value (psi)	-14.5 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 range	15 bar
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] Inert gases
Note on operating and pilot medium	Lubricated operation possible
Medium temperature	0 ... 50 °C
Ambient temperature	0 ... 50 °C
Accuracy, FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.1 %FS/K
Switch 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 strength	Yes
Operating voltage range DC	10.8 ... 30 V
Polarity protected	for all electrical connections
Electrical connection 1, connection type	Plug
Electrical connection 1, connection technology	Connection pattern L1J
Electrical connection 1, number of pins/wires	4
Mounting type	Front panel installation with thread with wall/surface fixing
Assembly position	Any
Pneumatic connection	Male thread R1/8
Product weight	31 g
Material housing	PA-reinforced
Materials in contact with media	FPM

Feature	Value
	Nickel-plated brass PA-reinforced
Type of display	illuminated LCD
Unit(s) that can be displayed	MPa bar inchHg kPa mmHg psi
Setting options	Teach-In Via display and buttons
Protection against manipulation	PIN-Code
Threshold value setting range	0 ... 100 %
Hysteresis setting range	0 ... 90 %
Protection class	IP40
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Cleanroom class	ISO class 4