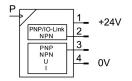
Pressure sensor SPAN-B2R-R18M-PNLK-PNVBA-L1

FESTO

Part number: 8035537





Data sheet

General operating condition

Feature	Value
Symbol	00995685
Certification	RCM compliance mark c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certificate issuing authority	UL E322346
Note on materials	RoHS-compliant
Measured variable	Relative pressure
Method of measurement	Piezoresistive pressure sensor
Pressure measuring range initial value	-0.1 MPa
Pressure measuring range initial value	-1 bar
Pressure measuring range initial value	-14.5 psi
Pressure measuring range end value	0.1 MPa
Pressure measuring range end value	1 bar
Pressure measuring range end value	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 as per ISO 8573-1:2010 [7:4:4] Inert gas
Information on operating and pilot media	Operation with oil lubrication possible
Temperature of medium	0 ℃ 50 ℃
Ambient temperature	0 °C 50 °C
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	2 x PNP or 2 x NPN switchable
Switching function	Window comparator Threshold value comparator Auto difference monitoring
Switching element function	N/C contact/N/O contact switchable
Max. output current	100 mA

Value
0 - 10 V
4 - 20 mA 1 - 5 V
500 Ohm
20 kOhm
yes
IO-Link®
Device V 1.1
Smart sensor profile
Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
COM2 (38,4 kBd)
Yes
А
0 Byte
2 Byte
14 bit PDV (pressure measurement) 2 bit BDC (pressure monitoring)
3 ms
500 byte
15 V 30 V
for all electrical connections
Plug
Connection diagram L1J
4
00995428
Front panel mounting With thread With wall/surface bracket
Any
External thread R1/8 Internal thread M5
46 g
PA-reinforced
FPM High-alloy stainless steel
Illuminated LCD
MPa bar inH2O inHg kPa kgf/cm² mbar mmHg psi
IO-Link® Teach-in Via display and pushbuttons
IO-Link®
PIN code
PIN code 0 % 100 %
PIN code
PIN code 0 % 100 %
PIN code 0 % 100 % 0 % 90 %

Feature	Value
	Metals with more than 1% by mass of copper, zinc or nickel by mass are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
Cleanroom class	Class 4 according to ISO 14644-1