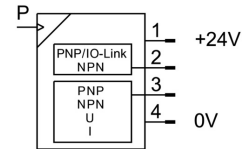


Pressure sensor SPAN-B2R-R18M-PNLK-PNVBA-L1

Part number: 8035537

FESTO



Data sheet

Feature	Value
Symbol	00995685
Approval	RCM trademark c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
KC mark	KC-EMV
Certificate issuing authority	UL E322346
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 gases
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	0.05 %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 or N/O contact, switchable
Max. output current	100 mA
Analogue output	0 - 10 V 4 - 20 mA 1 - 5 V
Max. load resistance current output	500 Ohm

Feature	Value
Min. load resistance voltage output	20 kOhm
Short circuit current rating	yes
Protocol	IO-Link®
IO-Link, Protocol version	Device V 1.1
IO-Link, Profile	Smart sensor profile
IO-Link, Function classes	Binary data channel (BDC) Process data variable (PDV) Identification Diagnostics Teach channel
IO-Link, communication mode	COM2 (38.4 kBaud)
IO-Link, SIO-Mode support	Yes
IO-Link, Port class	A
IO-Link, Process data length OUT	0 bytes
IO-Link, Process data length IN	2 bytes
IO-Link, Process data content IN	14 bit PDV (pressure measurement value) 2 bit BDC (pressure monitoring)
IO-Link, Min. cycle time	3 ms
IO-Link, Data storage required	500 Byte
Operational voltage range DC	15 V ... 30 V
Reverse polarity protection	For all electrical connections
Electrical connection 1, connection type	Plugs
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 thread Via wall/surface bracket
Mounting position	optional
Pneumatic connection	Male thread R1/8 Female thread M5
Product weight	46 g
Material housing	PA-reinforced
Material in contact with the medium	FPM High-alloy stainless steel
Display type	Illuminated LCD
Displayable units	MPa bar inH2O inHg kPa kgf/cm ² mbar mmHg psi
Setting options	IO-Link® Teach-in Via display and keys
Protection against tampering	IO-Link 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
PWIS conformity	VDMA24364-B1/B2-L
RSBP classification to CD-0033	F1a