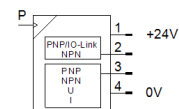


pressure sensor SPAN-B2R-R18M-PNLK-PNVBA-L1

Part number: 8035537
New

FESTO



Data sheet

Feature	values
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC
Materials note	Conforms to RoHS
Measured variable	Relative pressure
Measurement method	Piezoresistive pressure sensor
Pressure measuring range, initial value	-1 bar
Pressure measuring range, final value	1 bar
Overload range	5 bar
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
Resolution of analogue/digital converter	10 Bit
Accuracy, FS	1.5 %FS
Repetition accuracy in ± %FS	0.3 %FS
Temperature co-efficient in ± %FS/K	0.05 %FS/K
Switch 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
Min. load resistance, voltage output	20 kOhm
Short circuit strength	Yes
Protocol	IO-Link
IO-Link, protocol	Device V 1.1
IO-Link, profile	Smart sensor profile
IO-Link, function classes	Binary Data Channels (BDC) Process Data Variable (PDV) Identification diagnosis Teach channel
IO-Link, communication mode	COM2.
IO-Link, SIO mode support	Yes
IO-Link, port type	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 reading) 2 bit BDC (pressure monitoring)
IO-Link, minimum cycle time	3 ms
IO-Link, data memory required	0.5 Kilobyte

Feature	values
Operating voltage range DC	15 ... 30 V
Polarity protected	for all electrical connections
Electrical connection	Plug Cubic design 4-pin
Mounting type	Front panel installation with thread with wall/surface fixing
Assembly position	Any
Pneumatic connection	Male thread R1/8 Female thread M5
Product weight	46 g
Materials information, housing	PA-reinforced
Type of display	illuminated LCD
Unit(s) that can be displayed	MPa bar inchH2O inchHg kPa kgf/cm ² mmHg psi
Setting options	Teach-In IO-Link Via display and buttons
Protection against manipulation	IO-Link PIN-Code
Threshold value setting range	0 ... 100 %
Hysteresis setting range	0 ... 90 %
Protection class	IP40
Corrosion resistance classification CRC	2 - Moderate corrosion stress