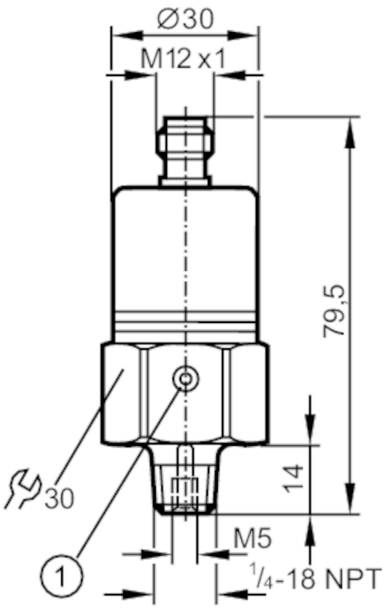
PX9116

Pressure transmitter with ceramic measuring cell

PA-003PRBN14-B-DVG/US/ /V



1 ventilation

Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range	[psi]	0...30
Process connection		threaded connection 1/4" NPT external thread internal thread:M5
Application		
Special feature		Gold-plated contacts
Application		for industrial applications
Media		liquids and gases
Medium temperature	[°C]	-25...90
Min. bursting pressure	[psi]	725
Pressure rating	[psi]	290
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	16...32 DC
Current consumption	[mA]	< 18
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 1
Outputs		
Total number of outputs		1
Output signal		analogue signal

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Number of analogue outputs		1
Analogue voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Overload protection		yes
Measuring/setting range		
Measuring range	[psi]	0...30
Accuracy / deviations		
Repeatability	[% of the span]	< 0,15; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,35 (BFSL) / < ± 0,75 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Long-term stability	[% of the span]	< ± 0,05; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	0,2; (0...80 °C)
Temperature coefficient span	[% of the span / 10 K]	0,3; (0...80 °C)
Response times		
Step response time analogue output	[ms]	3
Operating conditions		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 65
Tests / approvals		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated: 30 V/m
		EN 61000-4-4 Burst: 2 kV
		EN 61000-4-6 HF conducted: 10 V
		radiation of interference: according to the automotive directive 2004/104/EC / CISPR 25
		immunity: according to the automotive directive 2004/104/EC / ISO 11452-2
		HF radiated: 100 V/m
		pulse resistance: ISO 7637-2 / severity level 3
Shock resistance		DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6: 20 g (10...2000 Hz)
MTTF	[years]	550
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	212
Materials		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection 1/4" NPT external thread internal thread:M5
Restrictor element integrated		no (can be retrofitted)

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Remarks

Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

