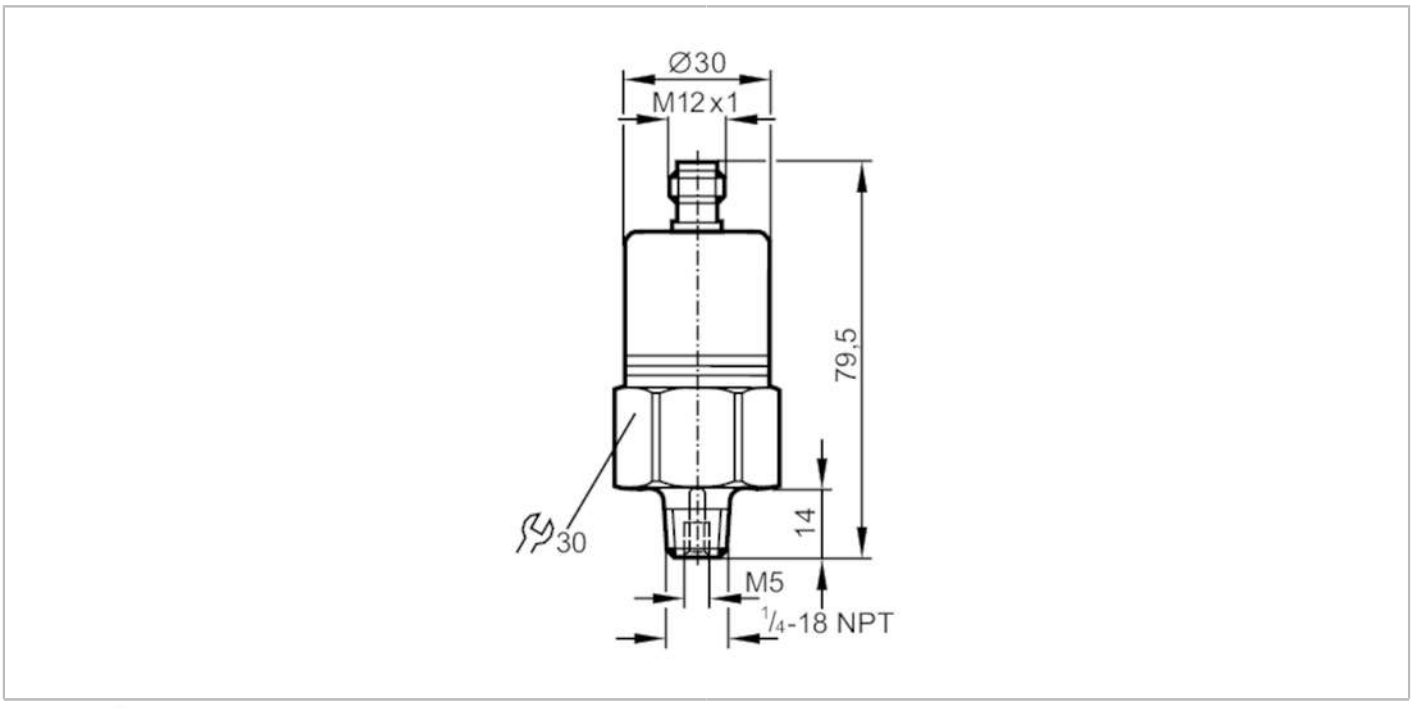
PX9111

Pressure transmitter with ceramic measuring cell

PA-300PSBN14-B-DVG/US/ /V



Product characteristics			
Number of inputs and outputs		Number of analogue outputs: 1	
Measuring range		0...3000 psi	0...20700 kPa
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	
Conditionally suitable for		use in gases at pressures > 25 bar only on request	
Medium temperature	[°C]	-25...90	
Min. bursting pressure		12300 psi	84.8 MPa
Pressure rating		5800 psi	40 MPa
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		0...3000 psi	0...20700 kPa
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 68; IP 69K	
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]	214	
Housing		cylindrical	
Dimensions	[mm]	Ø 30 / L = 79.5	
Materials		stainless steel (316L/1.4404); FKM; PA; EPDM/X	
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; FKM	
Min. pressure cycles		100 million	

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Process connection	threaded connection 1/4" NPT external thread internal thread:M5
Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.

Electrical connection

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



Connection

