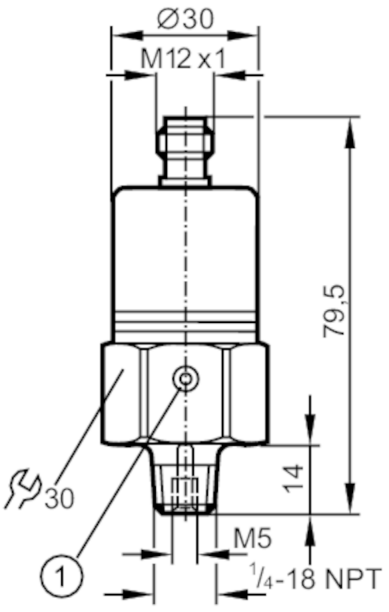
PX3233

Pressure transmitter with ceramic measuring cell

PA-025PRBN14-A-ZVG/US/ /V



1 ventilation

Product characteristics		
Number of inputs and outputs		Number of analogue outputs: 1
Measuring range	[psi]	0...250
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]	5075
Pressure rating	[psi]	2175
Type of pressure		relative pressure
Electrical data		
Operating voltage	[V]	9.6...32 DC
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
Number of analogue outputs		1

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Analogue current output	[mA]	4...20	
Max. load	[Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)	
Overload protection		yes	
Measuring/setting range			
Measuring range	[psi]	0...250	
Accuracy / deviations			
Repeatability	[% of the span]	< 0,1; (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]	555	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	216	
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	
Process connection		threaded connection 1/4" NPT external thread internal thread:M5	

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Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.

Electrical connection

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



Connection

