

PX3234



Pressure transmitter with ceramic measuring cell

PA-020PRBN14-A-ZVG/US/ IV



1 ventilation



Product characteristics		
Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...200 psi	0...1380 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	
Medium temperature [°C]	-25...90; (on request: -40...90 °C)	
Min. burst pressure	2175 psi	15 MPa
Pressure rating	1087 psi	7.5 MPa
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 analog outputs: 1	
Outputs		
Total number of outputs	1	
Output signal	analog signal	
Number of analog outputs	1	
Analog current output [mA]	4...20	

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Max. load	[Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)	
Overload protection		yes	
Measuring/setting range			
Measuring range		0...200 psi	0...1380 kPa
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]	0,15; (0...80 °C)	
Temperature coefficient span	[% of the span / 10 K]	0,2; (0...80 °C)	
Reaction times			
Step response time analog 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
	noise 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	
UL approval		File number UL	E174189
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	215.5	
Housing		tubular	
Dimensions	[mm]	Ø 30 / L = 79.5	
Material		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	

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Restrictor element integrated	no (can be retrofitted)
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection

