

PX9227



Pressure transmitter with ceramic measuring cell

PA-001PRBN14-C-DVG/US/ IV



Application

Media		liquids and gases
Medium temperature	[°C]	-25...90
Pressure rating	[psi]	145
Min. bursting pressure	[psi]	450
Type of pressure		relative pressure

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 18
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes

Outputs

Total number of outputs		1
Output signal		analogue signal
Number of analogue outputs		1
Analogue voltage output	[V]	1...5
Min. load resistance	[Ω]	2000
Overload protection		yes

Measuring/setting range

Measuring range	[psi]	0...15
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Accuracy / deviations

Repeatability	[% of the span]	< 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation		< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)

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	[% of the span]	
Long-term stability		< ± 0,05; (per 6 months)
	[% of the span]	
Temperature coefficient zero point		0,1; (0...80 °C)
	[% of the span / 10 K]	
Temperature coefficient span		0,2; (0...80 °C)
	[% of the span / 10 K]	

Response times

Step response time analogue output	[ms]	3
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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)

Mechanical data

Weight	[g]	221.6
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 internal thread

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; Contacts: gold-plated



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Connection

