

PA3027



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-A-ZVG/US/ IV



Product characteristics				
Number of inputs and outputs	Number of analog outputs: 1			
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa
Process connection	threaded connection G 1/4 Internal thread			
Application				
Special feature	gold-plated contacts			
Application	for industrial applications; for railway applications			
Media	liquids and gases			
Medium temperature	[°C] -25...90; (on request: -40...90 °C)			
Min. burst pressure	30 bar	435 psi	3 MPa	
Pressure rating	10 bar	145 psi	1 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...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa
Accuracy / deviations					
Repeatability	[% of the span]	< 0,1; (with temperature fluctuations < 10 K)			
Characteristics deviation	[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (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]	0,1; (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 radiation of interference	10 V			
	CISPR 25	according to the automotive directive 2004/104/EC			
	noise immunity	according to the automotive directive 2004/104/EC			
	ISO 11452-2 HF radiated	100 V/m			
	ISO 7637-2 pulse	severity level 4			
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)			
	DIN EN 61373	Category 3			
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)			
	DIN EN 61373	Category 2			
MTTF	[years]	506			
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Railway applications		DIN EN 50155 / IEC 60571		Klasse T3, C1, S1	
Mechanical data					
Weight	[g]	221.5			
Housing		tubular			
Dimensions	[mm]	Ø 30 / L = 75			
Material		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X			
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM			

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Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 Internal thread
Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

