

PA9027



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-B-DVG/US/V



Product characteristics

Output signal	analog signal			
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

System	gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. bursting 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]	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 analog outputs: 1
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Outputs				
Total number of outputs	1			
Output signal	analog signal			
Number of analog outputs	1			
Analog voltage output [V]	0...10			
Min. load resistance [Ω]	2000			
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	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		
Shock resistance	ISO 7637-2 pulse	severity level 4		
	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]	478			
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	

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Mechanical data		
Weight	[g]	222
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 G 1/4 Internal thread	
Restrictor element integrated	no (can be retrofitted)	

Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

