

PA9021



Pressure transmitter with ceramic measuring cell

PA-250-SBR14-B-DVG/US/V



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...250 bar	0...3625 psi	0...25 MPa
Process connection	threaded connection G 1/4 Internal thread		

Application

System	gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Conditionally suitable for	use in gases at pressures > 25 bar only on request		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. burst pressure	850 bar	12300 psi	85 MPa
Pressure rating	400 bar	5800 psi	40 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



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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...250 bar	0...3625 psi
			0...25 MPa
Accuracy / deviations			
Repeatability [% of the span]		< 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]		< $\pm$ 0,25 (BFSL) / < $\pm$ 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)	
Long-term stability [% of the span]		< $\pm$ 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 68; IP 69K	
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)	
Vibration resistance	DIN EN 61373	Category 3	
	DIN EN 60068-2-6	20 g (10...2000 Hz)	
MTTF [years]	DIN EN 61373	Category 2	
		478	
UL approval	UL approval number	J008	
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]	224		
Housing	tubular		

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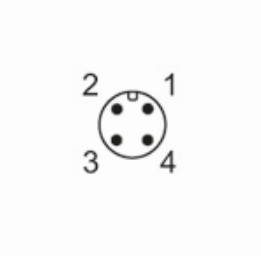
Dimensions	[mm]	Ø 30 / L = 75
Material		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X
Materials (wetted parts)		stainless steel (1.4305 / 303); ceramics; FKM
Min. pressure cycles		100 million
Process connection		threaded connection G 1/4 Internal thread
Restrictor element integrated		no (can be retrofitted)

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

