

PA9026



Pressure transmitter with ceramic measuring cell

PA-2,5-RBR14-B-DVG/US/V



Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...2.5 bar	0...2500 mbar	0...36 psi	0...250 kPa
Process connection	threaded connection G 1/4 internal thread			
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. bursting pressure	50 bar	725 psi	5 MPa	
Pressure rating	20 bar	290 psi	2 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 analogue outputs: 1			
Outputs				
Total number of outputs	1			
Output signal	analogue signal			
Number of analogue outputs	1			



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Analogue voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Overload protection		yes
Measuring/setting range		
Measuring range	0...2.5 bar	0...2500 mbar
		0...36 psi
		0...250 kPa
Accuracy / deviations		
Repeatability	[X21]	< 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation	[X21]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Long-term stability	[X21]	< ± 0,05; (per 6 months)
Temperature coefficient zero point	[X22]	0,1; (0...80 °C)
Temperature coefficient span	[X22]	0,2; (0...80 °C)
Response times		
Step response time analogue 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	
	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	[ANN]	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
Mechanical data		
Weight	[g]	221.5
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 G 1/4 internal thread	
Restrictor element integrated	no (can be retrofitted)	

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Remarks

Pack quantity

1 pcs.

Electrical connection

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



Connection

