

PA309A



Pressure transmitter with ceramic measuring cell

PA-0-1-RBR14-A-ZVG/US/ 3D/ V



Product characteristics			
Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	-1...0 bar	-1000...0 mbar	-100...0 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]	-20...60		
Min. burst pressure	30 bar	3 MPa	
Pressure rating	10 bar	1 MPa	
Type of pressure	relative pressure; vacuum		
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		-1...0 bar	-1000...0 mbar	-100...0 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]	0,2; (0...60 °C)		
Temperature coefficient span	[% of the span / 10 K]	0,2; (0...60 °C)		
Reaction times				
Step response time analog output	[ms]	3		
Operating conditions				
Ambient temperature	[°C]	-20...60		
Storage temperature	[°C]	-40...100		
Protection		IP 65; IP 67		
Tests / approvals				
ATEX marking		 II 3D Ex tc IIIC T85°C Dc X		
		 II 3G Ex ec IIC T4 Gc X		
EMC		DIN EN 61000-6-2		
		DIN EN 61000-6-3		
Shock resistance		DIN EN 60068-2-27	50 g (11 ms)	
Vibration resistance		DIN EN 60068-2-6	20 g (10...2000 Hz)	
MTTF	[years]	555		
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data				
Weight	[g]	236		
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		
Min. pressure cycles		100 million		
Tightening torque	[Nm]	25...35; (recommended tightening torque Depends on lubrication, seal and pressure rating)		
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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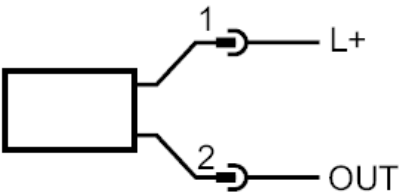
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Electrical connection - plug

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



Connection



1	L+	
2	OUT	AO
AO: analog output		