

PA303A



Pressure transmitter with ceramic measuring cell

PA-025-RBR14-A-ZVG/US/ 3D/ V



Product characteristics		
Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...25 bar	0...2.5 MPa
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	350 bar	35 MPa
Pressure rating	150 bar	15 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; (U _b = 24 V; (U _b - 9,6 V) / 20 mA)
Overload protection		yes
Measuring/setting range		
Measuring range	0...25 bar	0...2.5 MPa
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		Ex II 3D Ex tc IIIC T85°C Dc X
		Ex 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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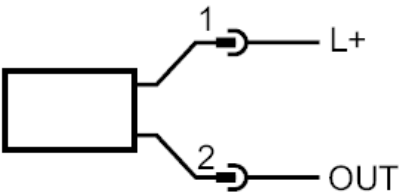
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Electrical connection - plug

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



Connection



1	L+	
2	OUT	AO
AO: analog output		