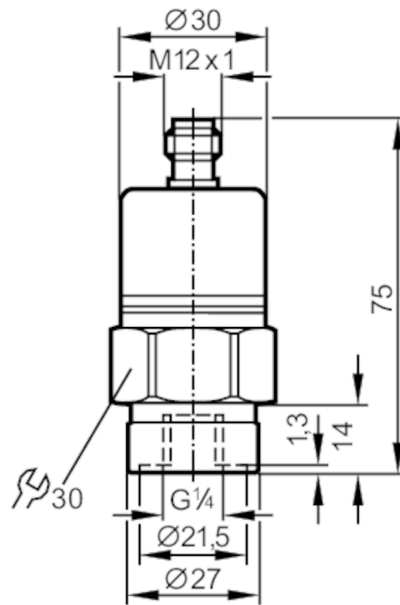


PA3024



Pressure transmitter with ceramic measuring cell

PA-010-RBR14-A-ZVG/US/ IV



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 MPa
Process connection	threaded connection G 1/4 internal thread			

Application

Special feature	Gold-plated contacts		
Application	for industrial applications; for railway applications		
Media	liquids and gases		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. burst pressure	150 bar	2175 psi	15 MPa
Pressure rating	75 bar	1088 psi	7.5 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 analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue 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...10 bar	0...145 psi	0...1000 kPa	0...1 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]	0,1; (0...80 °C)			
Temperature coefficient span	[% of the span / 10 K]	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)		
Vibration resistance		DIN EN 61373	category 3		
		DIN EN 60068-2-6	20 g (10...2000 Hz)		
		DIN EN 61373	category 2		
MTTF	[years]	506			
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]	226			
Housing		cylindrical			
Dimensions	[mm]	Ø 30 / L = 75			
Materials		stainless steel (316L/1.4404); FKM; PA; EPDM/X			
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; FKM			

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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: 4, gold-plated



Connection

