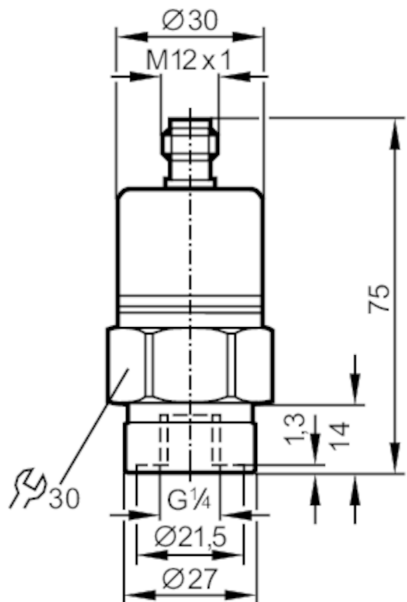


PA30ZA



Pressure transmitter with ceramic measuring cell

PA-,10BRBR14-A-ZVG/US/ 3D/3G V



Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...0.1 bar	0...100 mbar	0...10 kPa
Process connection	threaded connection G 1/4 internal thread		
Application			
Special feature	Gold-plated contacts		
Application	for industrial applications; For applications in hazardous areas		
Media	liquids and gases		
Medium temperature [°C]	-20...60		
Min. burst pressure	30000 mbar	3000 kPa	
Pressure rating	4000 mbar	400 kPa	
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		
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; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)		
Overload protection		yes		
Measuring/setting range				
Measuring range		0...0.1 bar	0...100 mbar	0...10 kPa
Accuracy / deviations				
Repeatability	[% of the span]	< 0,2; (with temperature fluctuations < 10 K)		
Characteristics deviation	[% of the span]	< ± 0,5 (BFSL) / < ± 1 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Long-term stability	[% of the span]	< ± 0,1; (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]	< ± 0,5; (0...60 °C)		
Response times				
Step response time analogue 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]	235		
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; Sealing: FKM		
Min. pressure cycles		100 million		
Tightening torque	[Nm]	25...35; (recommended tightening torque depends on the lubrication, the seal and the pressure load)		
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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Pressure transmitter with ceramic measuring cell

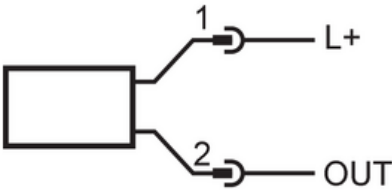
PA-,10BRBR14-A-A-ZVG/US/ 3D/3G V

Electrical connection - plug

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



1 L+
2 OUT AO
AO: analogue output