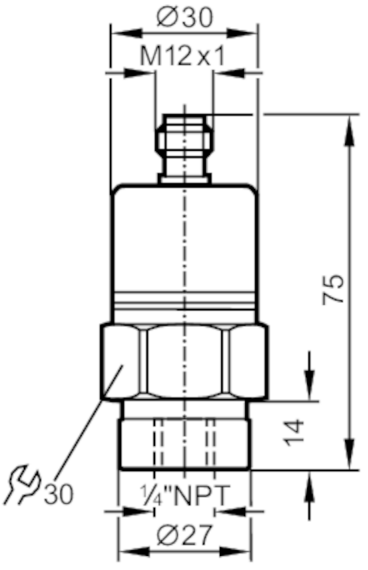
PA6229

Pressure transmitter with ceramic measuring cell

PA-0-1-RBN14-A-ZVG/US/ /V



Product characteristics				
Number of inputs and outputs		Number of analogue outputs: 1		
Measuring range		-1...0 bar	-1000...0 mbar	-14.5...0 psi	-100...0 kPa
Process connection		threaded connection 1/4" NPT 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		30 bar	435 psi	3 MPa
Pressure rating		10 bar	145 psi	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 analogue outputs: 1		
Outputs				
Total number of outputs		1		
Output signal		analogue signal		
Number of analogue outputs		1		
Analogue current output	[mA]	20...4		

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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	-14.5...0 psi	-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]	0,1; (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		
	pulse resistance	ISO 7637-2 / severity level 3		
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)		
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)		
MTTF [years]	506			
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data				
Weight [g]	221.5			
Materials	stainless steel (316L/1.4404); FKM; PA; EPDM/X			
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM			
Min. pressure cycles	100 million			
Process connection	threaded connection 1/4" NPT internal thread			
Restrictor element integrated	no (can be retrofitted)			
Remarks				
Pack quantity	1 pcs.			

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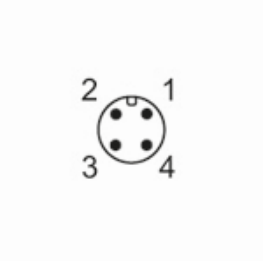
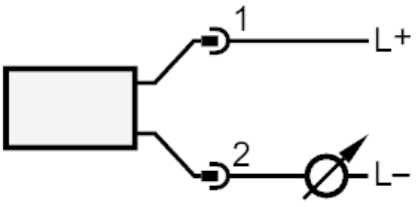
Electrical connection

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



Connection