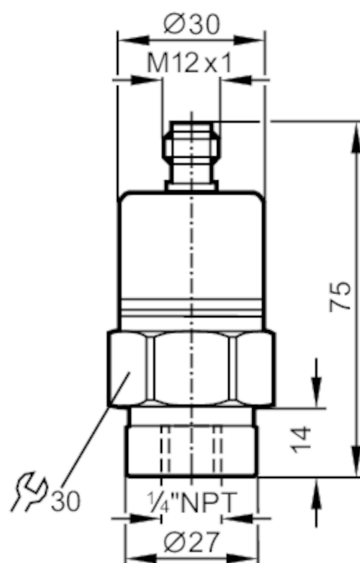




Pressure transmitter with ceramic measuring cell

PD-010-RBN14-A-ZVG/US/E

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Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...10
Process connection	threaded connection 1/4\" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Cannot be used for	oils
Medium temperature [°C]	-25...90; (on request: -40...90 °C)
Min. bursting pressure [bar]	150
Pressure rating [bar]	75
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



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Number of analogue outputs	1	
Analogue current output [mA]	4...20	
Max. load [Ω]	720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)	
Overload protection	yes	
Measuring/setting range		
Measuring range [bar]	0...10	
Accuracy / deviations		
Repeatability [% of the span]	< 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]	< ± 0,5; (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; (-25...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,2; (-25...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
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
Mechanical data		
Materials	stainless steel (1.4404 / 316L); FKM; PA; EPDM/X	
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; EPDM/X	
Min. pressure cycles	100 million	
Process connection	threaded connection 1/4" NPT external thread	
Remarks		
Pack quantity	1 pcs.	

PD3224



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Electrical connection

Connector: 1 x M12; coding: A



Connection

