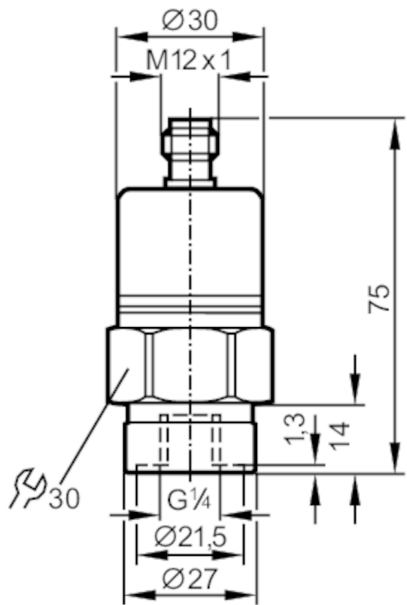


PA9023



Pressure transmitter with ceramic measuring cell

PA-025-RBR14-B-DVG/US/ IV



Product characteristics			
Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...25 bar	0...363 psi	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	-25...90; (on request: -40...90 °C)		
Min. bursting pressure	350 bar	5075 psi	35 MPa
Pressure rating	150 bar	2175 psi	15 MPa
Type of pressure	relative pressure		
Electrical data			
Operating voltage	[V]	16...32 DC	
Current consumption	[mA]	< 18	
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		



Pressure transmitter with ceramic measuring cell

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Analog voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Overload protection		yes

Measuring/setting range

Measuring range	0...25 bar	0...363 psi	0...2.5 MPa
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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)

Reaction times

Step response time analog output	[ms]	3
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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 radiation of interference	10 V
		according to the automotive directive 2004/104/EC
	CISPR 25	
	noise immunity	according to the automotive directive 2004/104/EC
	ISO 11452-2 HF radiated	100 V/m
	ISO 7637-2 pulse	severity level 4
	DIN EN 60068-2-27	50 g (11 ms)
Shock resistance	DIN EN 61373	Category 3
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
	DIN EN 61373	Category 2
MTTF	[years]	478
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]	222.5
Housing		tubular
Dimensions	[mm]	Ø 30 / L = 75
Material		stainless steel (1.4404 / 316L); FKM; PA; EPDM/X

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Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM
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: gold-plated



Connection

