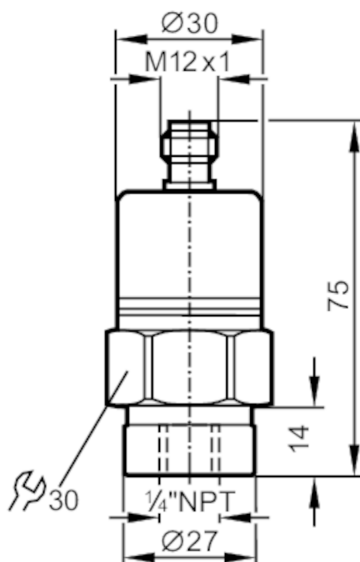


Pressure transmitter with ceramic measuring cell

PA-100-SBN14-A-ZVG/US/ IV



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...100 bar	0...1450 psi	0...10 MPa
Process connection	threaded connection 1/4" NPT internal thread		

Application

Special feature	Gold-plated contacts		
Application	for industrial applications		
Media	liquids and gases		
Conditionally suitable for	use in gases at pressures > 25 bar only on request		
Medium temperature [°C]	-25...90; (on request: -40...90 °C)		
Min. bursting pressure	650 bar	9425 psi	65 MPa
Pressure rating	300 bar	4350 psi	30 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



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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		0...100 bar	0...1450 psi 0...10 MPa
Accuracy / deviations			
Repeatability	[X21]	< 0,1; (with temperature fluctuations < 10 K)	
Characteristics deviation	[X21]	< ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)	
Long-term stability	[X21]	< ± 0,05; (per 6 months)	
Temperature coefficient zero point	[X22]	0,1; (0...80 °C)	
Temperature coefficient span	[X22]	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 68; IP 69K	
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	
ISO 7637-2 pulse	severity level 4		
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)	
	DIN EN 61373	category 3	
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)	
	DIN EN 61373	category 2	
MTTF	[ANN]	507	
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]	226.5	
Materials		stainless steel (1.4404 / 316L); 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)	

PA3222



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Remarks

Pack quantity

1 pcs.

Electrical connection

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



Connection

