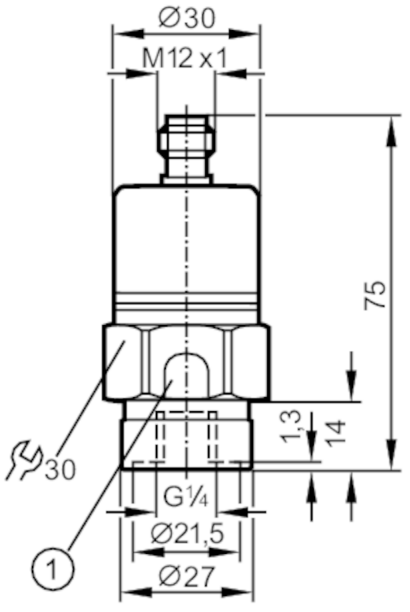
PA3021

Pressure transmitter with ceramic measuring cell

PA-250-SBR14-A-ZVG/US/ /V

When selecting an alternative article and accessories please note that technical data may differ!



1 pressure relief mechanism
No mechanical force must be exerted on the pressure relief mechanism.

Product characteristics				
Number of inputs and outputs		Number of analogue outputs: 1		
Measuring range		0...250 bar	0...3625 psi	0...25 MPa
Process connection		threaded connection G 1/4 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		850 bar	12300 psi	85 MPa
Pressure rating		400 bar	5800 psi	40 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		
Outputs				
Total number of outputs		1		

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Output signal			analogue signal	
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		0...250 bar	0...3625 psi	0...25 MPa
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 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	[years]		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]		222.5	
Materials			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	yes

Remarks

Pack quantity	1 pcs.

Electrical connection

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



Connection

