

PX3981



Pressure transmitter with ceramic measuring cell

PA-160-SBG14-A/ZVG/US/ IV



1 Sealing



Product characteristics	
Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...160
Process connection	threaded connection G 1/4 external thread internal thread:M5
Application	
Special feature	Gold-plated contacts
Application	for industrial applications
Media	liquids and gases
Conditionally suitable for	For gaseous media the application is limited to max. 25 bar.
Medium temperature [°C]	-25...90
Min. bursting pressure [bar]	850
Pressure rating [bar]	400
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
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...160	
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]	1	
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 radiation of interference	10 V
		according to the automotive directive 2004/104/EC
	CISPR 25 immunity	
		according to the automotive directive 2004/104/EC
		ISO 11452-2 HF radiated
	ISO 7637-2 pulse	severity level 3
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]	480	
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]	210	
Materials	stainless steel (316L/1.4404); FKM; PA; EPDM/X	
Materials (wetted parts)	stainless steel (303/1.4305); ceramics; FKM	

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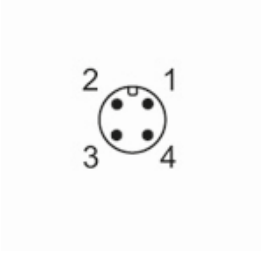
Min. pressure cycles	100 million
Process connection	threaded connection G 1/4 external thread internal thread:M5
Restrictor element integrated	no (can be retrofitted)

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

