

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
Min. bursting pressure [MPa]	85
Pressure rating [bar]	400
Pressure rating [MPa]	40
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
Analogue current output [mA]		4...20
Max. load [Ω]		720; ($U_b = 24 \text{ V}$; ($U_b - 9,6 \text{ V}$) / 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]		< $\pm 0,25$ (BFSL) / < $\pm 0,5$ (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Long-term stability [% of the span]		< $\pm 0,05$; (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	100 V/m
	ISO 7637-2 pulse	severity level 3
	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]		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

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Mechanical data		
Weight	[g]	210
Housing		cylindrical
Dimensions	[mm]	Ø 30 / L = 79.5
Materials		stainless steel (316L/1.4404); FKM; PA; EPDM/X
Materials (wetted parts)		stainless steel (303/1.4305); ceramics; FKM
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.

Electrical connection

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



Connection

