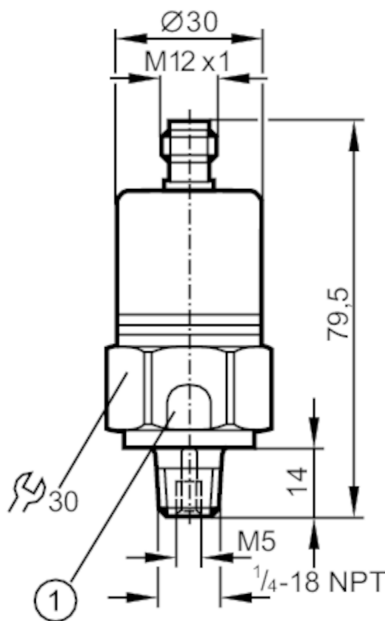


PX9110



Pressure transmitter with ceramic measuring cell

PA-500PSBN14-B-DVG/US/ IV



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



Product characteristics		
Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...5000 psi	0...34500 kPa
Process connection	threaded connection 1/4" NPT external thread Internal thread:M5	
Application		
System	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	
Min. burst pressure	17400 psi	120 MPa
Pressure rating	11600 psi	80 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	

PX9110



Pressure transmitter with ceramic measuring cell

PA-500PSBN14-B-DVG/US/ /V

Output signal	analog signal
Number of analog outputs	1
Analog voltage output [V]	0...10
Min. load resistance [Ω]	2000
Overload protection	yes

Measuring/setting range

Measuring range	0...5000 psi	0...34500 kPa
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Accuracy / deviations

Repeatability [% of the span]	< 0,15; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]	< $\pm 0,35$ (BFSL) / < $\pm 0,75$ (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]	0,3; (0...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,4; (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 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
	noise immunity	according to the automotive directive 2004/104/EC / ISO 11452-2
	HF radiated	100 V/m
Shock resistance	pulse resistance	ISO 7637-2 / severity level 3
Vibration resistance	DIN IEC 68-2-27	50 g (11 ms)
MTTF [years]	DIN IEC 68-2-6	20 g (10...2000 Hz)
Pressure equipment directive	531	
	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	207.5
Housing	tubular
Dimensions [mm]	$\varnothing 30$ / L = 79.5
Material	stainless steel (1.4404 / 316L); FKM; PA; EPDM/X
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM

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Pressure transmitter with ceramic measuring cell

PA-500PSBN14-B-DVG/US/ /V

Min. pressure cycles	100 million
Process connection	threaded connection 1/4" NPT external thread Internal thread:M5
Restrictor element integrated	yes

Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

