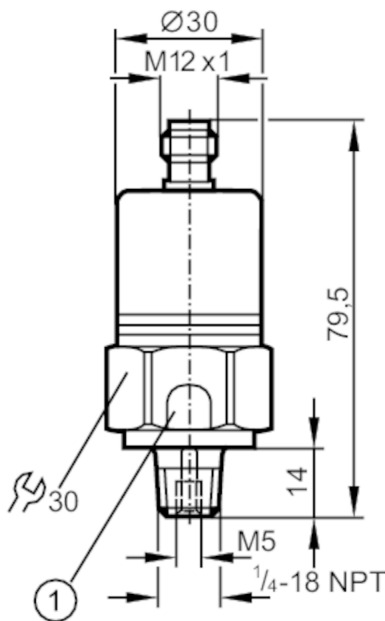


PX9110



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 analogue outputs: 1
Measuring range	[psi]	0...5000
Process connection		threaded connection 1/4" NPT external thread internal thread:M5
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
Min. bursting pressure	[psi]	17400
Pressure rating	[psi]	11600
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 analogue outputs: 1
Outputs		
Total number of outputs		1



Pressure transmitter with ceramic measuring cell

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

Output signal	analogue signal	
Number of analogue outputs	1	
Analogue voltage output [V]	0...10	
Min. load resistance [Ω]	2000	
Overload protection	yes	
Measuring/setting range		
Measuring range [psi]	0...5000	
Accuracy / deviations		
Repeatability [% of the span]	< 0,15; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]	< ± 0,35 (BFSL) / < ± 0,75 (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]	0,3; (0...80 °C)	
Temperature coefficient span [% of the span / 10 K]	0,4; (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
	pulse resistance	ISO 7637-2 / severity level 3
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	20 g (10...2000 Hz)
MTTF [years]	531	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight [g]	207.5	
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 1/4" NPT external thread internal thread:M5	

PX9110



Pressure transmitter with ceramic measuring cell

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

Restrictor element integrated	yes
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Remarks

Pack quantity	1 pcs.
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Electrical connection

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



Connection

