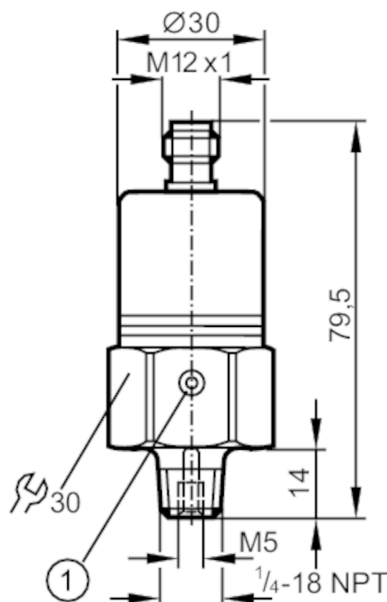




Pressure transmitter with ceramic measuring cell

PA-015PRBN14-A-ZVG/US/ IV



1 ventilation



Product characteristics

Output signal	analogue signal
Measuring range [psi]	0...150
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
Medium temperature [°C]	-25...90
Pressure rating [psi]	1087
Min. bursting pressure [psi]	2175
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 [psi]		0...150
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); (incl. linearity, zero and span error (limit value setting))
Long-term stability [% of the span]		< $\pm 0,05$; (per 6 months)
Temperature coefficient zero point [% of the span / 10 K]		0,2; (0...80 °C)
Temperature coefficient span [% of the span / 10 K]		0,3; (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 65
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]		555
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	



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Mechanical data		
Weight	[g]	212
Materials	stainless steel (1.4404 / 316L); FKM; PA; EPDM/X	
Materials (wetted parts)	stainless steel (1.4305 / 303); ceramics; FKM	
Min. pressure cycles	100 million	
Process connection	threaded connection 1/4 NPT external thread internal threadM5	
Restrictor element integrated	no (can be retrofitted)	

Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

