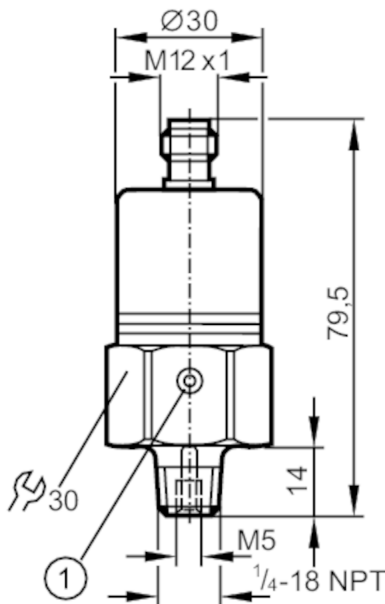


PX9445



Pressure transmitter with ceramic measuring cell

PA-005PRBN14-C-DVG/US/ IV



1 ventilation



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-25...90
Pressure rating [psi]	790
Note on pressure rating	static
Min. bursting pressure [psi]	2175
Vacuum resistance [psi]	-14.5
Type of pressure	relative pressure
Electrical data	
Operating voltage [V]	8...30 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



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Outputs		
Total number of outputs		1
Output signal		analogue signal
Number of analogue outputs		1
Analogue voltage output [V]		1...5
Min. load resistance [Ω]		2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range [psi]		0...50
Accuracy / deviations		
Repeatability [% of the span]		$< \pm 0,15$; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]		$< \pm 0,5$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)
Linearity deviation [% of the span]		$< \pm 0,25$ (BFSL) / $< \pm 0,5$ (LS)
Hysteresis deviation [% of the span]		$< \pm 0,2$
Long-term stability [% of the span]		$< \pm 0,25$; (per year)
Temperature coefficient zero point [% of the span / 10 K]		$< \pm 0,2$ (0...80 °C)
Temperature coefficient span [% of the span / 10 K]		$< \pm 0,2$ (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	DIN EN 61000-6-3	
	DIN EN 61000-6-2	
Shock resistance	DIN EN 60068-2-27	100 g (1 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]		550
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]	208.4
Materials	stainless steel (1.4404 / 316L); FKM; PA; EPDM
Materials (wetted parts)	stainless steel (1.4305 / 303); FKM; Al ₂ O ₃ (99.9 %; Keramik);
Min. pressure cycles	100 million
Tightening torque [Nm]	< 50; (recommended tightening torque; depends on lubrication, seal and pressure rating)
Process connection	threaded connection 1/4 NPT external thread internal thread M5
Restrictor element integrated	no (can be retrofitted)

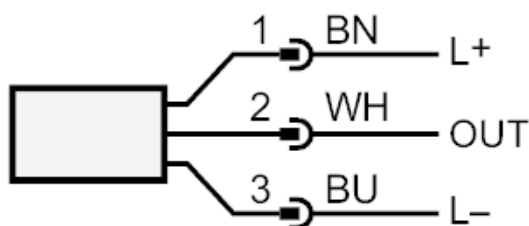
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



Connection



OUT analogue output
 colours to DIN EN 60947-5-2
 Core colours :

BN = brown
BU = blue
WH = white