

PU5414



Pressure transmitter

PU-016-SEG14-B-DVG/US/ IW



1 sealing



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...16 bar	0...232 psi	0...1.6 MPa
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		

Application

Application	for industrial applications		
Media	liquids and gases		
Medium temperature [°C]	-40...90		
Min. burst pressure	450 bar	6525 psi	45 MPa
Pressure rating	40 bar	580 psi	4 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	16...36 DC		
Current consumption [mA]	< 12		
Min. insulation resistance [MΩ]	100; (500 V DC)		
Protection class	III		
Reverse polarity protection	yes		
Power-on delay time [s]	< 0.1		

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1		
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Outputs

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

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Short-circuit proof		yes	
Overload protection		yes	
Measuring/setting range			
Measuring range	0...16 bar	0...232 psi	0...1.6 MPa
Accuracy / deviations			
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the span]	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)		
Linearity deviation [% of the span]	< ± 0,1 (BFSL) / < ± 0,2 (LS)		
Hysteresis deviation [% of the span]	< ± 0,2		
Long-term stability [% of the span]	< ± 0,1; (per 6 months)		
Temperature coefficient zero point and span [% of the span / 10 K]	< ± 0,1 (-25...90 °C) / < ± 0,2 (-40...-25 °C)		
Reaction times			
Step response time analog output [ms]		1	
Operating conditions			
Ambient temperature [°C]		-40...90	
Storage temperature [°C]		-40...100	
Protection		IP 67; IP 69K	
Tests / approvals			
EMC	DIN EN 61000-6-2		
	DIN EN 61000-6-3		
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)	
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)	
MTTF [years]		762	
UL approval	UL approval number	J031	
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data			
Weight [g]		58.5	
Housing		tubular	
Dimensions [mm]		Ø 19 / L = 66	
Material	stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PEI		
Materials (wetted parts)	stainless steel (630/1.4542/17-4 PH)		
Min. pressure cycles	60 million; (at 1.2 times nominal pressure)		
Tightening torque [Nm]	25...35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)		
Process connection	threaded connection G 1/4 external thread (DIN EN ISO 1179-2)		
Process connection sealing	FKM (DIN EN ISO 1179-2)		
Restrictor element integrated	no (can be retrofitted)		

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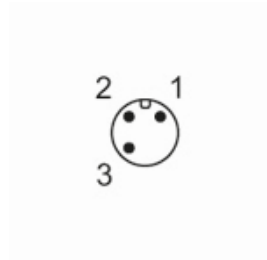
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Remarks

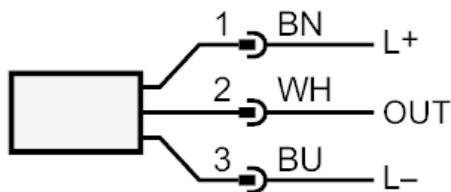
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT analog output
 Colors to DIN 47100
 Core colors :
BN = brown
BU = blue
WH = white