

PU5403



Pressure transmitter

PU-025-SEG14-B-DVG/US/ IW



1 sealing



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...25 bar	0...360 psi	0...2.5 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. bursting pressure	600 bar	8700 psi	60 MPa
Pressure rating	65 bar	940 psi	6.5 MPa
Note on pressure rating	static		
Vacuum resistance [mbar]	-1000		
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

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Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes

Measuring/setting range

Measuring range	0...25 bar	0...360 psi	0...2.5 MPa
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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
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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]	767
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]	59
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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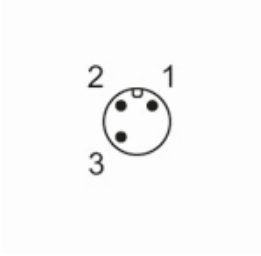
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Remarks

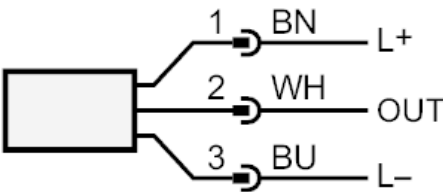
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT analog output
Colors to DIN EN 60947-5-2
Core colors :
BN = brown
BU = blue
WH = white