

PU5402



Pressure transmitter

PU-100-SEG14-B-DVG/US/ IW



1 Sealing



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Pressure rating [bar]	250
Note on pressure rating	static
Min. bursting pressure [bar]	1000
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
Inputs / outputs	
Number of inputs and outputs	Number of analogue outputs: 1
Outputs	
Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1
Analogue voltage output [V]	0...10
Min. load resistance [Ω]	2000
Short-circuit proof	yes
Overload protection	yes
Measuring/setting range	
Measuring range [bar]	0...100

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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)
Response times		
Step response time analogue 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
Pressure Equipment Directive		Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight [g]		55
Materials		1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)		1.4542 (17-4 PH / 630)
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 (to DIN 3869)
Restrictor element integrated		no
Remarks		
Remarks		BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity		1 pcs.

Electrical connection

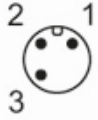
Connector: 1 x M12

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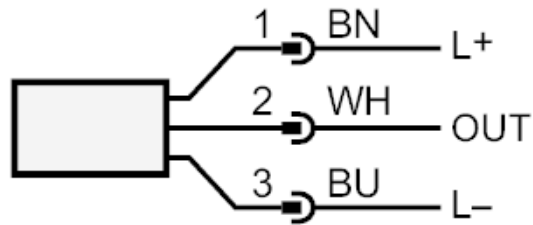


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Connection



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

Core colours :

BN = brown
BU = blue
WH = white