

PU5412



Pressure transmitter

PU-160-SEG14-B-DVG/US/ IW



1 Sealing



Product characteristics

Output signal	analogue signal
Measuring range [bar]	0...160
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
Pressure rating [bar]	400
Note on pressure rating	static
Min. bursting pressure [bar]	1100
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
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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...160	
Accuracy / deviations		
Repeatability [% of the span]	$< \pm 0,05$; (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]	$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)	
Hysteresis deviation [% of the span]	$< \pm 0,2$	
Long-term stability [% of the span]	$< \pm 0,1$; (per 6 months)	
Temperature coefficient zero point and span [% of the span / 10 K]	$< \pm 0,1$ (-25...90 °C) / $< \pm 0,2$ (-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	
UL approval	UL Approval no.	J030
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]	59
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 (can be retrofitted)

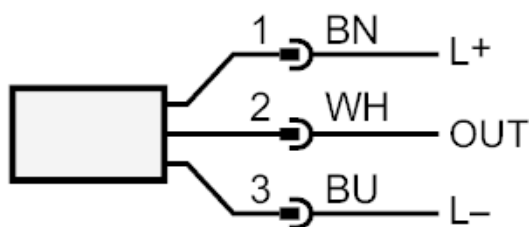
Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

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