



Pressure transmitter

PU-010-SEG14-B-DVG/US/ IW



Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...10 bar	0...145 psi	0...1000 kPa	0...1 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	300 bar	4350 psi	30 MPa	
Pressure rating	25 bar	360 psi	2.5 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 analogue outputs: 1			
Outputs				
Total number of outputs	1			
Output signal	analogue signal			
Number of analogue outputs	1			
Analogue voltage output [V]	0...10			



Pressure transmitter

PU-010-SEG14-B-DVG/US/ IW

Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	0...10 bar	0...145 psi
		0...1000 kPa
		0...1 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)
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. J031
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	59
Housing		cylindrical
Dimensions	[mm]	Ø 19 / L = 66
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); 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)

PU5404



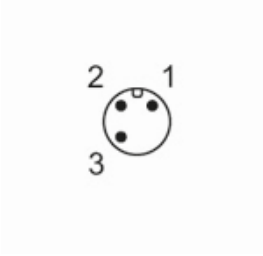
Pressure transmitter

PU-010-SEG14-B-DVG/US/ IW

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 analogue output
 colours to DIN EN 60947-5-2
 Core colours :
BN = brown
BU = blue
WH = white