

PU504E



Pressure transmitter

PU-010-SEG14-C-DVG/US



1 Sealing



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 mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
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		
Vacuum resistance [MPa]	-0.1		
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8...32 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
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1

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Analogue voltage output		[V]	0.5...4.5		
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]	< ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)		
Linearity deviation		[% of the span]	< ± 0,25 (BFSL) / < ± 0,5 (LS)		
Hysteresis deviation		[% of the span]	< ± 0,2		
Long-term stability		[% of the span]	< ± 0,1; (per 6 months)		
Temperature coefficient zero point		[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)		
Temperature coefficient span		[% of the span / 10 K]	< ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)		
Response times					
Step response time analogue output		[ms]	2		
Operating conditions					
Ambient temperature		[°C]	-40...100		
Storage temperature		[°C]	-40...100		
Protection			IP 67; IP 69K		
Tests / approvals					
EMC			noise immunity according to UN ECE R10, rev. 6		
			ISO 11452-2		100 V/m
			DIN EN 61326-1		
Shock resistance			DIN EN 60068-2-27		500 g (1 ms)
Vibration resistance			DIN EN 60068-2-6		20 g (10...2000 Hz)
MTTF		[years]	658		
Pressure Equipment Directive			Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data					
Weight		[g]	58.4		
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)		

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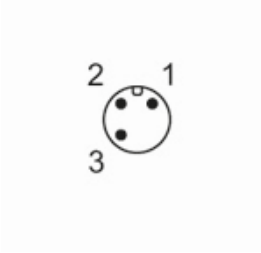
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

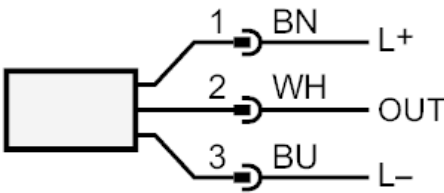
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



Connection



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