

PU5703



Pressure transmitter

PU-025-SEG14-B-DVG/DE



1 Sealing



Product characteristics			
Number of inputs and outputs	Number of analogue 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 mobile applications		
Media	liquids and gases		
Medium temperature [°C]	-40...125		
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		
Vacuum resistance [MPa]	-0.1		
Type of pressure	relative pressure		
Electrical data			
Operating voltage [V]	16...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		
Outputs			
Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		



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Analogue voltage output		[V]		0...10
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
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); < ± 0,3 (-40...0 °C); < ± 0,2 (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		compliant with UN ECE R10, rev. 5		(E1 compliant)
		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]		640
Pressure Equipment Directive				Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data				
Weight		[g]		61
Housing				cylindrical
Dimensions		[mm]		Ø 19 / L = 71.5
Materials				stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS
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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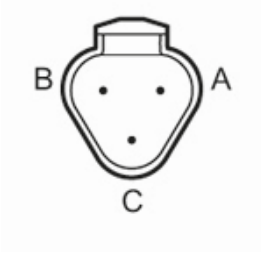
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

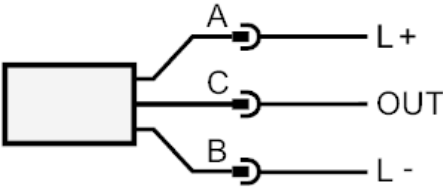
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Maximum cable length: 30 m



Connection



OUT analogue output