



Pressure transmitter

PU-400-SEG14-B-DVG/AM



1 Sealing



Product characteristics			
Number of inputs and outputs	Number of analogue outputs: 1		
Measuring range	0...400 bar	0...5800 psi	0...40 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	1700 bar	24655 psi	170 MPa
Pressure rating	1000 bar	14500 psi	100 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
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...400 bar	0...5800 psi	0...40 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			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]	62.5	
Housing			cylindrical	
Dimensions		[mm]	Ø 21.8 / L = 72	
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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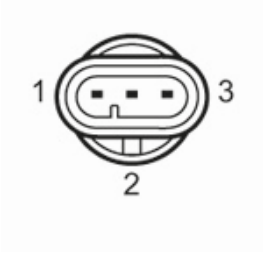
Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

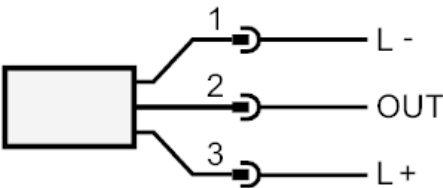
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x AMP-Superseal; Maximum cable length: 30 m



Connection



OUT analogue output