

PT5312



Pressure transmitter

PT-160-SEG14-A-ZVG/US/ IW



1 sealing



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...160 bar	0...2320 psi	0...16 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	1100 bar	15950 psi	110 MPa
Pressure rating	400 bar	5800 psi	40 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
Type of pressure	relative pressure		

Electrical data

Operating voltage [V]	8.5...36 DC
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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	(U _b – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω
Short-circuit proof	yes

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Overload protection		yes		
Measuring/setting range				
Measuring range		0...160 bar	0...2320 psi	0...16 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)		
Reaction times				
Step response time analog 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]		787		
UL approval		UL approval number	J028	
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data				
Weight [g]		59.5		
Housing		tubular		
Dimensions [mm]		Ø 19 / L = 66		
Material		stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); 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)		

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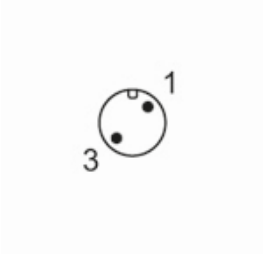
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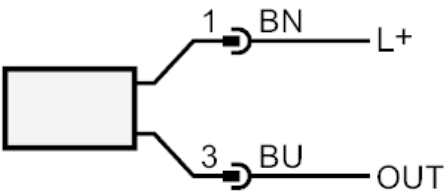
Remarks	
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT analog output
Colors to DIN EN 60947-5-2
Core colors :
BN = brown
BU = blue