

PT5312



Pressure transmitter

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



1 Sealing



Product characteristics

Output signal	analogue signal		
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 [mbar]	-1000		
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 analogue outputs: 1
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Outputs			
Total number of outputs	1		
Output signal	analogue signal		
Number of analogue outputs	1		
Analogue current output [mA]	4...20		
Max. load [Ω]	$(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$; @8,5V= 0 Ω ; @12V max. 160 Ω ; @24V max. 720 Ω		
Short-circuit proof	yes		
Overload protection	yes		
Measuring/setting range			
Measuring range	0...160 bar	0...2320 psi	0...16 MPa
Accuracy / deviations			
Repeatability [% of the span]	< $\pm 0,05$; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the span]	< $\pm 0,5$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)		
Linearity deviation [% of the span]	< $\pm 0,1$ (BFSL) / < $\pm 0,2$ (LS)		
Hysteresis deviation [% of the span]	< $\pm 0,2$		
Long-term stability [% of the span]	< $\pm 0,1$; (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]	787		
UL approval	UL Approval no.	J028	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		

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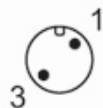
PT-160-SEG14-A-ZVG/US/ IW

Mechanical data	
Weight [g]	59.5
Materials	1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI
Materials (wetted parts)	1.4542 (17-4 PH / 630)
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)

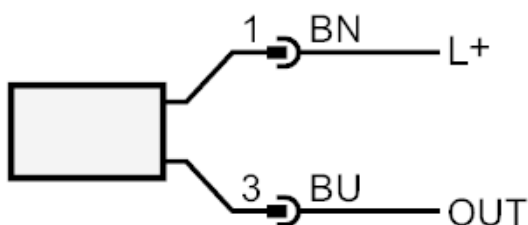
Remarks	
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



Connection



OUT analogue output
 colours to DIN EN 60947-5-2
 Core colours :

BN = brown
BU = blue