

PT5401



Pressure transmitter

PT-250-SEG14-A-ZVG/US/ IW



1 Sealing



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Pressure rating [bar]	625
Note on pressure rating	static
Min. bursting pressure [bar]	1200
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
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
Analogue current output [mA]	4...20
Max. load [Ω]	720; (U _b = 24 V; (U _b - 8,5 V) / 21,5 mA)
Short-circuit proof	yes
Overload protection	yes
Measuring/setting range	
Measuring range [bar]	0...250

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Accuracy / deviations		
Repeatability	[% of the span]	$< \pm 0,05$; (with temperature fluctuations $< 10\text{ K}$)
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]	$< 0,1$ ($-25\ldots 90\text{ °C}$) / $< 0,2$ ($-40\ldots -25\text{ °C}$)
Response times		
Step response time analogue output	[ms]	1
Operating conditions		
Ambient temperature	[°C]	$-40\ldots 90$
Storage temperature	[°C]	$-40\ldots 100$
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 ($10\ldots 2000\text{ Hz}$)
MTTF	[years]	686
Pressure Equipment Directive		Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	60
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 (to DIN 3869)
Restrictor element integrated		no
Remarks		
Remarks		BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12		

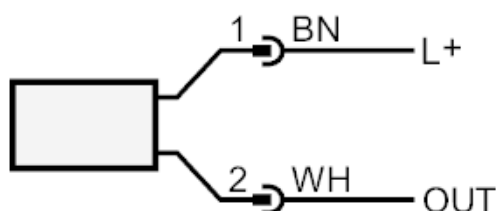
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Connection



OUT analogue output

The following pin connection is available on request: Pin 1: L+, Pin 3: OUT
colours to DIN EN 60947-5-2

Core colours :

BN brown

WH white