

PT5314



Pressure transmitter

PT-016-SEG14-A-ZVG/US/ IW



1 Sealing



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Pressure rating [bar]	40
Note on pressure rating	static
Min. bursting pressure [bar]	450
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
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...16
Accuracy / deviations	
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)

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	[% of the span]	
Linearity deviation		$< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)
	[% of the span]	
Hysteresis deviation		$< \pm 0,2$
	[% of the span]	
Long-term stability		$< \pm 0,1$; (per 6 months)
	[% of the span]	
Temperature coefficient zero point and span		$< 0,1$ (-25...90 °C) / $< 0,2$ (-40...-25 °C)
	[% of the span / 10 K]	

Response times

Step response time analogue output	[ms]	1
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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	
Pressure Equipment Directive		Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight	[g]	58.5
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 (to DIN 3869)
Restrictor element integrated		no

Remarks

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

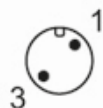
Electrical connection

Connector: 1 x M12

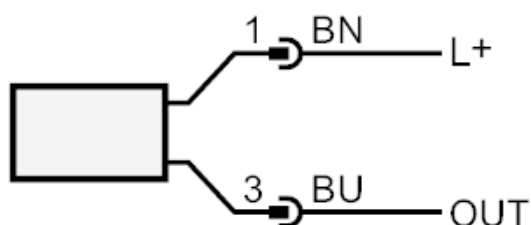
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Connection



OUT analogue output
 colours to DIN EN 60947-5-2
 Core colours :
BN = brown
BU = blue