

Pressure transmitter

PT-010-AFG14-A-ZVG/US



1 Sealing



Application	
Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	0...80
Pressure rating [bar]	20
Min. bursting pressure [bar]	50
Type of pressure	absolute pressure
Electrical data	
Operating voltage [V]	8...30 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]	800; (U _b = 24 V; (U _b - 8 V) / 20 mA)
Short-circuit proof	yes
Measuring/setting range	
Measuring range [bar]	0...10
Accuracy / deviations	
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the span]	< ± 1,0; (incl. zero point and span error, non-linearity, hysteresis)
Linearity deviation	< ± 0,5 (BFSL) / < ± 1,0 (LS)

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	[% of the span]	
Long-term stability		< ± 0,1; (per year)
	[% of the span]	
Temperature coefficient zero point		< ± 0,2; (0...80 °C)
	[% of the span / 10 K]	
Temperature coefficient span		< ± 0,2; (0...80 °C)
	[% of the span / 10 K]	

Response times

Step response time analogue output	[ms]	4
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Operating conditions

Ambient temperature	[°C]	0...80
Storage temperature	[°C]	-20...80
Protection		IP 67

Tests / approvals

EMC	DIN EN 61326-1	
Shock resistance	DIN EN 60068-2-27	500 g (1 ms)
Vibration resistance	DIN EN 60068-2-6	10 g (10...2000 Hz)
MTTF	[years]	815
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight	[g]	120
Materials	stainless steel (1.4404 / 316L); HNBR; PA	
Materials (wetted parts)	stainless steel (1.4404 / 316L); 1.4534 (13-8 PH)	
Min. pressure cycles	10 million	
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	NBR (to DIN 3869)	
Fill fluid for pressure transfer	synthetic oil	
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



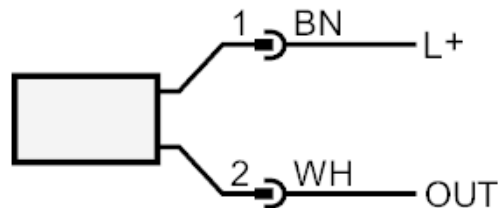
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Connection



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