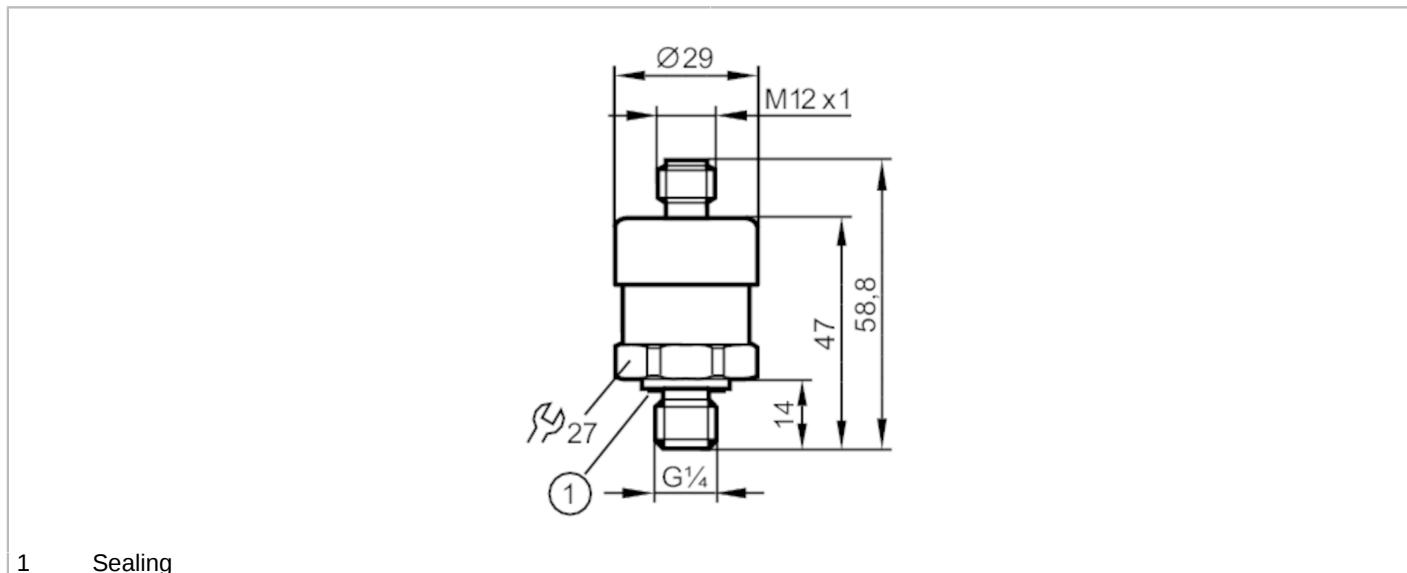


PT0507

Pressure transmitter

PT-001-AFG14-A-ZVG/US



1 Sealing



Product characteristics				
Number of inputs and outputs	Number of analogue outputs: 1			
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa
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]	0...80			
Min. bursting pressure	5 bar	72 psi	500 kPa	
Pressure rating	2 bar	29 psi	200 kPa	
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			
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]	800; (Ub = 24 V; (Ub - 8 V) / 20 mA)			
Short-circuit proof	yes			
Measuring/setting range				
Measuring range	0...1 bar	0...1000 mbar	0...14.5 psi	0...100 kPa

PT0507



Pressure transmitter

PT-001-AFG14-A-ZVG/US

Accuracy / deviations		
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 1,0; (incl. zero point and span error, non-linearity, hysteresis)
Linearity deviation	[% of the span]	< ± 0,5 (BFSL) / < ± 1,0 (LS)
Long-term stability	[% of the span]	< ± 0,1; (per year)
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,2; (0...80 °C)
Temperature coefficient span	[% of the span / 10 K]	< ± 0,2; (0...80 °C)
Response times		
Step response time analogue output		4
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
Vibration resistance		DIN EN 60068-2-6
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]	116.5
Materials		stainless steel (316L/1.4404); HNBR; PA
Materials (wetted parts)		stainless steel (316L/1.4404)
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 (DIN EN ISO 1179-2)
Fill fluid for pressure transmission		synthetic oil
Restrictor element integrated		no
Remarks		
Remarks		BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity		1 pcs.

Pressure transmitter

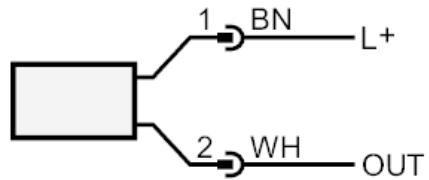
PT-001-AFG14-A-ZVG/US

Electrical connection

Connector: 1 x M12; coding: A



Connection



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