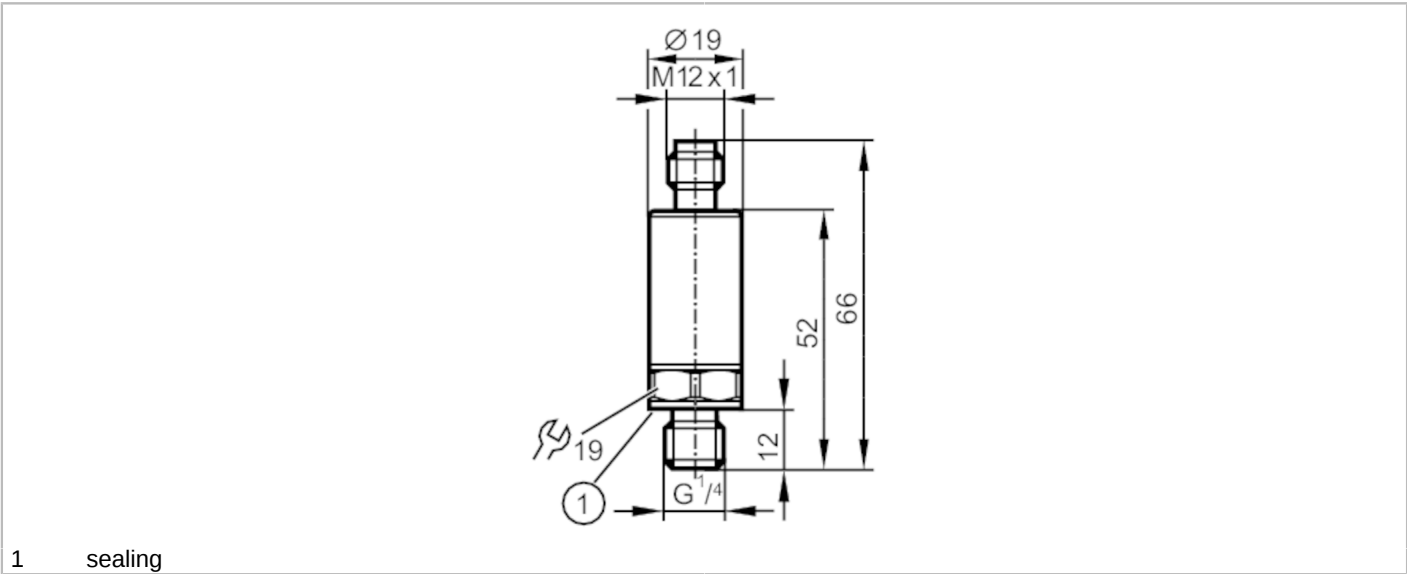


PT5314



Pressure transmitter

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



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1		
Measuring range	0...16 bar	0...232 psi	0...1.6 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. burst pressure	450 bar	6525 psi	45 MPa
Pressure rating	40 bar	580 psi	4 MPa
Note on pressure rating	static		
Vacuum resistance	-1000 mbar	-0.1 MPa	
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 analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	(U _b – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω
Short-circuit proof	yes

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Overload protection		yes	
Measuring/setting range			
Measuring range		0...16 bar	0...232 psi 0...1.6 MPa
Accuracy / deviations			
Repeatability [% of the span]		< ± 0,05; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]		< ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis)	
Linearity deviation [% of the span]		< ± 0,1 (BFSL) / < ± 0,2 (LS)	
Hysteresis deviation [% of the span]		< ± 0,2	
Long-term stability [% of the span]		< ± 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)	
Reaction times			
Step response time analog 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 number	J029
Pressure equipment directive		sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight [g]		58.5	
Housing		tubular	
Dimensions [mm]		Ø 19 / L = 66	
Material		stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PEI	
Materials (wetted parts)		stainless steel (630/1.4542/17-4 PH)	
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)	

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

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 2



Connection	
OUT	analog output Colors to DIN EN 60947-5-2 Core colors :
BN =	brown
BU =	blue