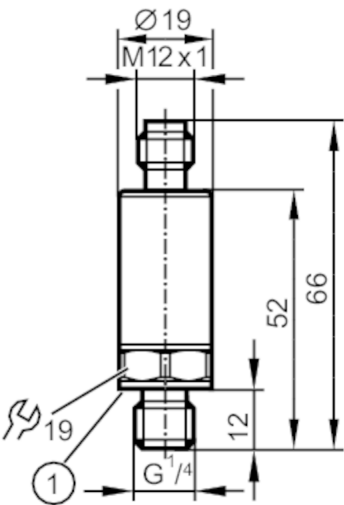


PT5314



Pressure transmitter

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



1 Sealing



Product characteristics			
Number of inputs and outputs	Number of analogue 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. bursting pressure	450 bar	6525 psi	45 MPa
Pressure rating	40 bar	580 psi	4 MPa
Note on pressure rating	static		
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		
Power-on delay time [s]	< 0.1		
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]	(U _b – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω		

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Short-circuit proof		yes	
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)	
Response times			
Step response time analogue 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 no.	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	
Materials		stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); 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)	
Remarks			
Remarks		BFSL = Best Fit Straight Line	
		LS = limit value setting	
Pack quantity		1 pcs.	

PT5314

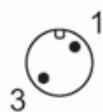


Pressure transmitter

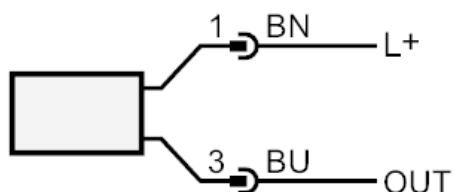
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Electrical connection

Connector: 1 x M12; coding: A



Connection



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