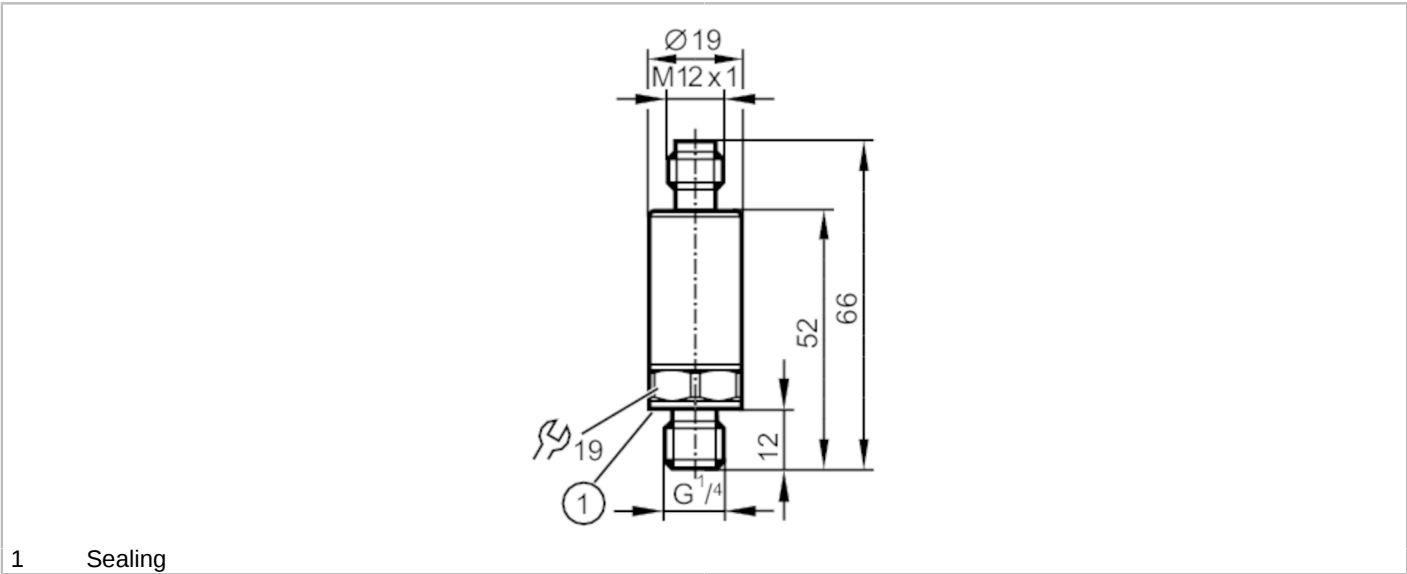




Pressure transmitter

PT-010-SEG14-A-ZVG/US/ IW



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	-1...10
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]	-25...70
Min. bursting pressure [bar]	300
Min. bursting pressure [MPa]	30
Pressure rating [bar]	25
Pressure rating [MPa]	2.5
Note on pressure rating	static
Vacuum resistance [mbar]	-1000
Vacuum resistance [MPa]	-0.1
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

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 1
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Outputs

Total number of outputs	1
Output signal	analogue signal
Number of analogue outputs	1



Pressure transmitter

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Analogue current output	[mA]	4...20
Max. load	[Ω]	755; (U _b = 24 V; (U _b - 8,5 V) / 20,5 mA)
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range	[bar]	-1...10
Accuracy / deviations		
Repeatability	[% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)
Characteristics deviation	[% of the span]	< ± 0,8; (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]	< 0,25 (-25...70 °C)
Response times		
Step response time analogue output	[ms]	1
Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-25...70
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
Vibration resistance		DIN EN 60068-2-6
MTTF	[years]	787
UL approval		UL Approval no. J027
		File number UL E174189
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight	[g]	58.2
Housing		cylindrical
Dimensions	[mm]	Ø 19 / L = 66
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)



Pressure transmitter

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Restrictor element integrated	no (can be retrofitted)
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Remarks

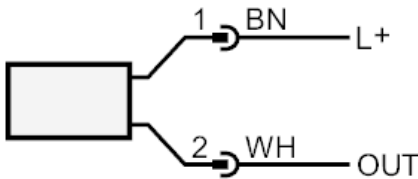
Remarks	BFSL = Best Fit Straight Line
	LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



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