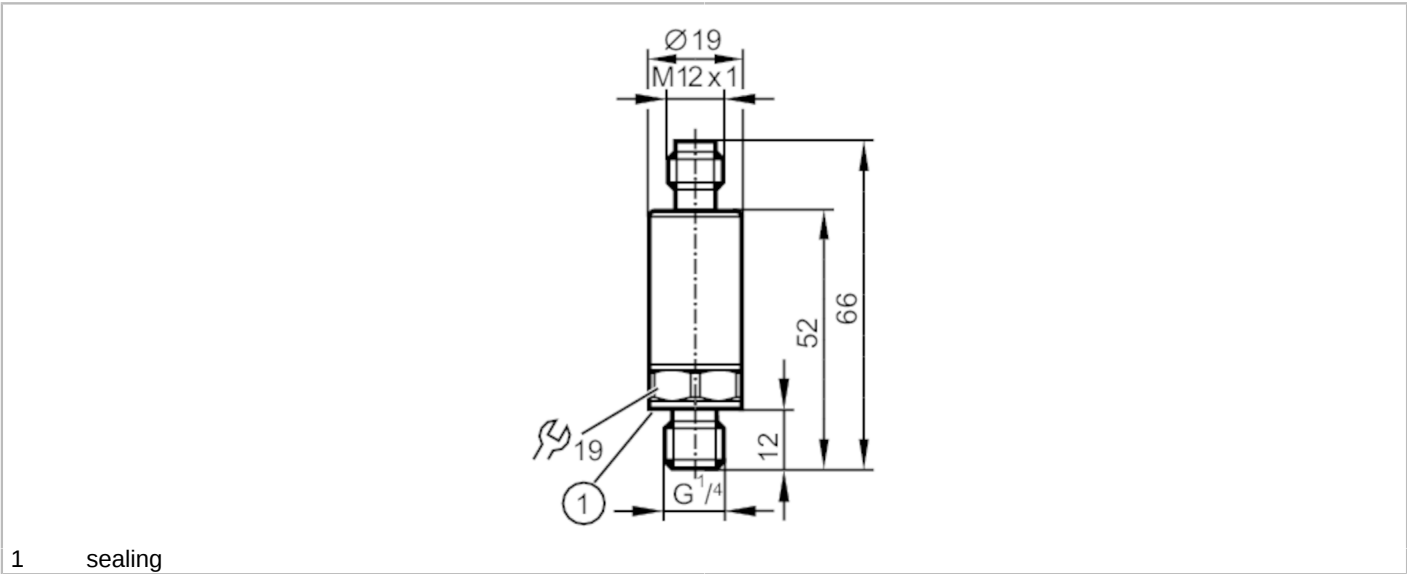


PC5194



Pressure transmitter

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



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	-1...10 bar	-100...1000 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]	-40...125	
Min. burst pressure	300 bar	30 MPa
Pressure rating	25 bar	2.5 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	

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
------------------------------	-----------------------------

Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1
Analog current output [mA]	4...20
Max. load [Ω]	755; (Ub = 24 V; (Ub - 8,5 V) / 20,5 mA)
Short-circuit proof	yes
Overload protection	yes

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Measuring/setting range		
Measuring range	-1...10 bar	-100...1000 kPa
Accuracy / deviations		
Repeatability [% of the span]	< ± 0,05; (with temperature fluctuations < 10 K)	
Characteristics deviation [% of the span]	< ± 0,8 (-25...70 °C); < ± 1,5 (-40...90 °C); < ± 2,5 (-40...125 °C); (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 (-40...125 °C)	
Reaction times		
Step response time analog output [ms]	1	
Operating conditions		
Ambient temperature [°C]	-40...100	
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	500 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [years]	787	
UL approval	UL approval number	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	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
WH	white