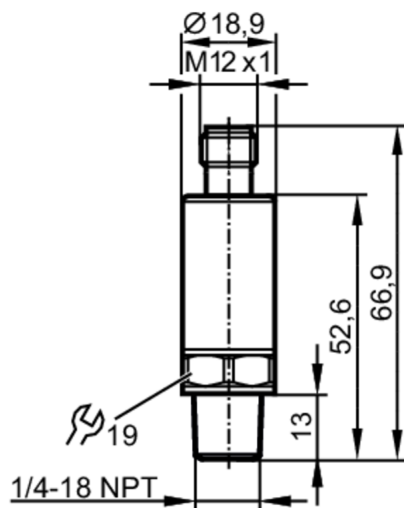




Pressure transmitter

PT-050PSEN14-A-ZVG/US/ IW



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [psi]	0...500
Process connection	threaded connection 1/4" NPT external thread

Application

Application	for industrial applications
Media	liquids and gases
Medium temperature [°C]	-40...90
Min. bursting pressure [psi]	11600
Min. bursting pressure [MPa]	79.98
Pressure rating [psi]	1450
Pressure rating [MPa]	10
Note on pressure rating	static
Vacuum resistance [psi]	-14.5
Vacuum resistance [MPa]	-0.1
Type of pressure	relative pressure
MAWP (for applications according to CRN) [psi]	1450

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
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Pressure transmitter

PT-050PSEN14-A-ZVG/US/ IW

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
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Measuring range [psi]		0...500
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]		784
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
Mechanical data		
Weight [g]		57.5
Housing		cylindrical
Dimensions [mm]		Ø 18.9 / L = 66.9
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]		< 50; (recommended tightening torque; depends on lubrication, seal and pressure rating)

PT2443



Pressure transmitter

PT-050PSEN14-A-ZVG/US/ IW

Process connection	threaded connection 1/4" NPT external thread
Restrictor element integrated	no (can be retrofitted)

Remarks

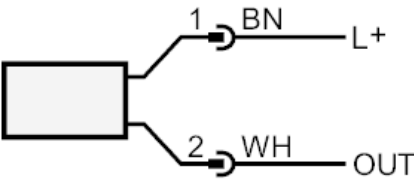
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

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