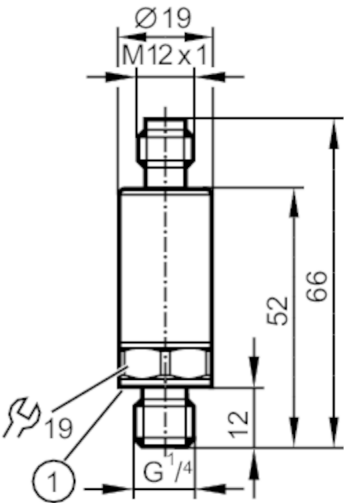


PC5104



Pressure transmitter

PT-010-SEG14-A-ZVG/US



1 Sealing



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 1
Measuring range [bar]	0...10
Process connection	threaded connection G 1/4 external thread DIN EN ISO 1179-2

Application

Application	for mobile 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...32 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



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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]	0...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]	< ± 0,25 (BFSL) / < ± 0,5 (LS)
Hysteresis deviation	[% of the span]	< ± 0,2
Long-term stability	[% of the span]	< ± 0,1; (per 6 months)
Temperature coefficient zero point	[% of the span / 10 K]	< 0,25 (-25...70 °C)
Temperature coefficient span	[% of the span / 10 K]	< 0,25 (-25...70 °C)
Response times		
Step response time analogue output	[ms]	2
Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-25...70
Protection		IP 67; IP 69K
Tests / approvals		
EMC	compliant with UN ECE R10, rev. 5	(E1 compliant)
	ISO 11452-2	100 V/m
	DIN EN 61326-1	
Shock resistance	DIN EN 60068-2-27	500 g (1 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	711
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 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



Pressure transmitter

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Process connection sealing	HNBR (DIN EN ISO 1179-2)
Restrictor element integrated	yes

Remarks

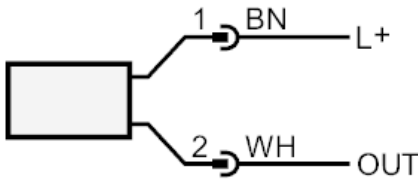
Remarks	BFSL = Best Fit Straight Line LS = limit value setting
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



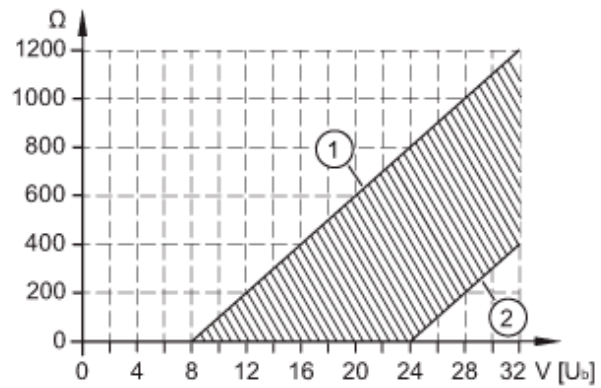
OUT analogue output
 colours to DIN EN 60947-5-2
 Core colours :
BN = brown
WH = white

Pressure transmitter

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Diagrams and graphs

characteristic load curve of current output



1: Max. load

2: min. load