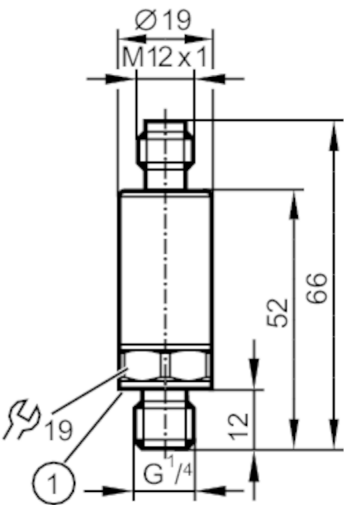


PT5412



Pressure transmitter

PT-160-SEG14-A-ZVG/US/ IW



1 Sealing



| Product characteristics | | | |
|---------------------------------|--|--------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1 | | |
| Measuring range | 0...160 bar | 0...2320 psi | 0...16 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 | 1100 bar | 15950 psi | 110 MPa |
| Pressure rating | 400 bar | 5800 psi | 40 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] | (Ub – 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...160 bar 0...2320 psi 0...16 MPa |
| Accuracy / deviations | |
| Repeatability [% of the span] | $< \pm 0,05$; (with temperature fluctuations < 10 K) |
| Characteristics deviation [% of the span] | $< \pm 0,5$; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation [% of the span] | $< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS) |
| Hysteresis deviation [% of the span] | $< \pm 0,2$ |
| Long-term stability [% of the span] | $< \pm 0,1$; (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. J026 |
| | 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] | 60 |
| Materials | 1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI |
| Materials (wetted parts) | 1.4542 (17-4 PH / 630) |
| 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 |

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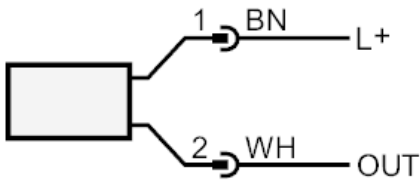
| | |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

Electrical connection

Connector: 1 x M12; coding: A



Connection



| | |
|-----|---|
| OUT | analogue output The following pin connection is available under article number PT53xx Pin 1: L+, Pin 3: OUT colours to DIN EN 60947-5-2 Core colours : |
| BN | brown |
| WH | white |