

PT5400



Pressure transmitter

PT-400-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics

| | | | |
|------------------------------|---|--------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1 | | |
| Measuring range | 0...400 bar | 0...5800 psi | 0...40 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 | 1700 bar | 24655 psi | 170 MPa |
| Pressure rating | 1000 bar | 14500 psi | 100 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] | (U _b – 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...400 bar | 0...5800 psi | 0...40 MPa |
| 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] | | 686 | |
| 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 | | |
| Pack quantity | | 1 pcs. | |

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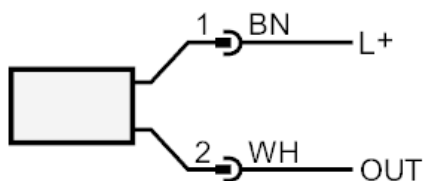
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Electrical connection

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 |
| BN | brown |
| WH | white |