

PT5304



Pressure transmitter

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



| Product characteristics      |                                                               |                                                                                  |              |           |
|------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----------|
| Number of inputs and outputs | Number of analogue outputs: 1                                 |                                                                                  |              |           |
| Measuring range              | 0...10 bar                                                    | 0...145 psi                                                                      | 0...1000 kPa | 0...1 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       | 300 bar                                                       | 4350 psi                                                                         | 30 MPa       |           |
| Pressure rating              | 25 bar                                                        | 360 psi                                                                          | 2.5 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 <sub>b</sub> – 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                                                                                                  |
| <b>Measuring/setting range</b>                                     |                                                                                                      |
| Measuring range                                                    | 0...10 bar    0...145 psi    0...1000 kPa    0...1 MPa                                               |
| <b>Accuracy / deviations</b>                                       |                                                                                                      |
| 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)                                                 |
| <b>Response times</b>                                              |                                                                                                      |
| Step response time analogue output [ms]                            | 1                                                                                                    |
| <b>Operating conditions</b>                                        |                                                                                                      |
| Ambient temperature [°C]                                           | $-40...90$                                                                                           |
| Storage temperature [°C]                                           | $-40...100$                                                                                          |
| Protection                                                         | IP 67; IP 69K                                                                                        |
| <b>Tests / approvals</b>                                           |                                                                                                      |
| 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.    J029                                                                              |
| Pressure Equipment Directive                                       | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request                |
| <b>Mechanical data</b>                                             |                                                                                                      |
| Weight [g]                                                         | 58.5                                                                                                 |
| 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)                                        |
| Process connection sealing                                         | FKM (DIN EN ISO 1179-2)                                                                              |
| Restrictor element integrated                                      | no (can be retrofitted)                                                                              |
| <b>Remarks</b>                                                     |                                                                                                      |
| Remarks                                                            | BFSL = Best Fit Straight Line<br>LS = limit value setting                                            |
| Pack quantity                                                      | 1 pcs.                                                                                               |

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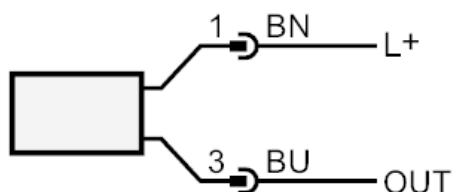
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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



|      |                                                                  |
|------|------------------------------------------------------------------|
| OUT  | analogue output<br>colours to DIN EN 60947-5-2<br>Core colours : |
| BN = | brown                                                            |
| BU = | blue                                                             |