



Pressure transmitter

PT-025-SEG14-A-ZVG/US/ IW



1      Sealing



| Product characteristics         |                                                                      |             |             |
|---------------------------------|----------------------------------------------------------------------|-------------|-------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                        |             |             |
| Measuring range                 | 0...25 bar                                                           | 0...360 psi | 0...2.5 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          | 600 bar                                                              | 8700 psi    | 60 MPa      |
| Pressure rating                 | 65 bar                                                               | 940 psi     | 6.5 MPa     |
| Note on pressure rating         | static                                                               |             |             |
| Vacuum resistance               | -1000 mbar                                                           | -0.1 MPa    |             |
| 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 |             |             |
| Short-circuit proof             | yes                                                                  |             |             |

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|                                                                    |                                                                                                 |                     |             |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------|-------------|
| Overload protection                                                | yes                                                                                             |                     |             |
| Measuring/setting range                                            |                                                                                                 |                     |             |
| Measuring range                                                    | 0...25 bar                                                                                      | 0...360 psi         | 0...2.5 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]                                                       | 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           |                     |             |
| Mechanical data                                                    |                                                                                                 |                     |             |
| Weight [g]                                                         | 58.5                                                                                            |                     |             |
| 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)                                   |                     |             |
| 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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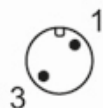
PT-025-SEG14-A-ZVG/US/ IW

Pack quantity

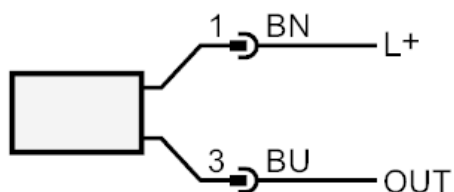
1 pcs.

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



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