



Pressure transmitter

PT-040-SEG14-A-ZVG/US/ IW



1 Sealing



Product characteristics

|                              |                                                               |             |           |
|------------------------------|---------------------------------------------------------------|-------------|-----------|
| Number of inputs and outputs | Number of analogue outputs: 1                                 |             |           |
| Measuring range              | 0...40 bar                                                    | 0...580 psi | 0...4 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   | 800 bar                     | 11600 psi | 80 MPa |
| Pressure rating          | 100 bar                     | 1450 psi  | 10 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...40 bar      0...580 psi      0...4 MPa                                                           |
| <b>Accuracy / deviations</b>                      |                                                                                                      |
| Repeatability [X21]                               | $< \pm 0,05$ ; (with temperature fluctuations $< 10$ K)                                              |
| Characteristics deviation [X21]                   | $< \pm 0,5$ ; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation [X21]                         | $< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)                                                                |
| Hysteresis deviation [X21]                        | $< \pm 0,2$                                                                                          |
| Long-term stability [X21]                         | $< \pm 0,1$ ; (per 6 months)                                                                         |
| Temperature coefficient zero point and span [X22] | $< 0,1$ ( $-25...90$ °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<br>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 [ANN]                                        | 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]                                        | 59                                                                                                   |
| 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)                                                                              |
| <b>Remarks</b>                                    |                                                                                                      |
| Remarks                                           | BFSL = Best Fit Straight Line<br>LS = limit value setting                                            |
| Pack quantity                                     | 1 pcs.                                                                                               |

# PT5343

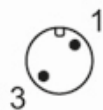


## Pressure transmitter

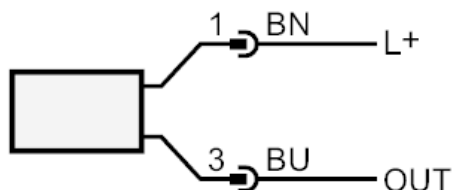
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### Electrical connection

Connector: 1 x M12; coding: A



### Connection



OUT1            analogue output  
                 colours to DIN EN 60947-5-2  
                 Core colours :  
BN =            brown  
BU =            blue