

# PT5404



## Pressure transmitter

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



1 Sealing



### Product characteristics

|                    |   |             |              |           |
|--------------------|---|-------------|--------------|-----------|
| Output signal      | analogue signal   |             |              |           |
| 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 |
|------------------------------|-------------------------------|

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| Outputs                      |   |
|------------------------------|---|
| Total number of outputs      | 1   |
| Output signal                | analogue signal   |
| Number of analogue outputs   | 1   |
| Analogue current output [mA] | 4...20  |
| Max. load [ $\Omega$ ]       | $(U_b - 8,5 \text{ V}) / 21,5 \text{ mA}$ ; @8,5V= 0 $\Omega$ ; @12V max. 160 $\Omega$ ; @24V max. 720 $\Omega$ |
| Short-circuit proof          | yes   |
| Overload protection          | yes   |

| Measuring/setting range |            |             |              |           |
|-------------------------|------------|-------------|--------------|-----------|
| Measuring range         | 0...10 bar | 0...145 psi | 0...1000 kPa | 0...1 MPa |

| Accuracy / deviations  |  |
|--|--|
| Repeatability [% of the span]                                      | $< \pm 0,05$ ; (with temperature fluctuations $< 10 \text{ K}$ )                                     |
| 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] | $< 0,1$ ( $-25...90 \text{ }^\circ\text{C}$ ) / $< 0,2$ ( $-40...-25 \text{ }^\circ\text{C}$ )       |

| Response times                          |   |
|---|---|
| Step response time analogue output [ms] | 1 |

| Operating conditions                     |               |
|--|---------------|
| Ambient temperature [ $^\circ\text{C}$ ] | -40...90      |
| Storage temperature [ $^\circ\text{C}$ ] | -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 |

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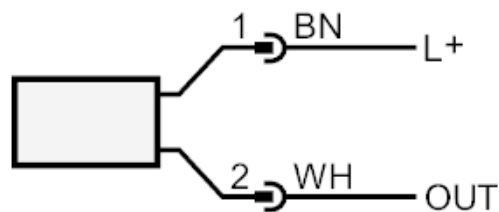
| Mechanical data               |  |
|-------------------------------|--|
| Weight [g]                    | 59   |
| Materials                     | 1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI                               |
| Materials (wetted parts)      | 1.4542 (17-4 PH / 630)   |
| 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)  |
| Remarks                       |  |
| Remarks                       | BFSL = Best Fit Straight Line<br>LS = limit value setting                                  |
| Pack quantity                 | 1 pcs.   |

## Electrical connection

Connector: 1 x M12



## Connection



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

BN                    brown  
WH                    white