

# PU5703



## Pressure transmitter

PU-025-SEG14-B-DVG/DE



1 sealing



### Product characteristics

|                              |                                                               |             |             |
|------------------------------|---------------------------------------------------------------|-------------|-------------|
| Number of inputs and outputs | Number of analog 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 mobile applications |          |         |
| Media                   | liquids and gases       |          |         |
| Medium temperature [°C] | -40...125               |          |         |
| 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]           | 16...32 DC      |
| Current consumption [mA]        | < 12            |
| 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 analog outputs: 1 |
|------------------------------|-----------------------------|

### Outputs

|                           |               |
|---------------------------|---------------|
| Total number of outputs   | 1             |
| Output signal             | analog signal |
| Number of analog outputs  | 1             |
| Analog voltage output [V] | 0...10        |
| Min. load resistance [Ω]  | 2000          |



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|                                                           |                                                                                                      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Short-circuit proof                                       | yes                                                                                                  |
| Overload protection                                       | yes                                                                                                  |
| <b>Measuring/setting range</b>                            |                                                                                                      |
| Measuring range                                           | 0...25 bar    0...360 psi    0...2.5 MPa                                                             |
| <b>Accuracy / deviations</b>                              |                                                                                                      |
| Repeatability [% of the span]                             | $< \pm 0,05$ ; (with temperature fluctuations $< 10$ K)                                              |
| Characteristics deviation [% of the span]                 | $< \pm 0,8$ ; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation [% of the span]                       | $< \pm 0,25$ (BFSL) / $< \pm 0,5$ (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 [% of the span / 10 K] | $< \pm 0,1$ (0...80 °C); $< \pm 0,2$ (-40...0 °C / 80...125 °C)                                      |
| Temperature coefficient span [% of the span / 10 K]       | $< \pm 0,1$ (0...80 °C); $< \pm 0,3$ (-40...0 °C); $< \pm 0,2$ (80...125 °C)                         |
| <b>Reaction times</b>                                     |                                                                                                      |
| Step response time analog output [ms]                     | 2                                                                                                    |
| <b>Operating conditions</b>                               |                                                                                                      |
| Ambient temperature [°C]                                  | -40...100                                                                                            |
| Storage temperature [°C]                                  | -40...100                                                                                            |
| Protection                                                | IP 67; IP 69K                                                                                        |
| <b>Tests / approvals</b>                                  |                                                                                                      |
| EMC                                                       | compliant with UN ECE R10, rev. 5 (E1 compliant)<br>ISO 11452-2 100 V/m<br>DIN EN 61326-1            |
| Shock resistance                                          | DIN EN 60068-2-27 500 g (1 ms)                                                                       |
| Vibration resistance                                      | DIN EN 60068-2-6 20 g (10...2000 Hz)                                                                 |
| MTTF [years]                                              | 640                                                                                                  |
| Pressure equipment directive                              | sound engineering practice; can be used for group 2 fluids; group 1 fluids on request                |
| <b>Mechanical data</b>                                    |                                                                                                      |
| Weight [g]                                                | 61                                                                                                   |
| Housing                                                   | tubular                                                                                              |
| Dimensions [mm]                                           | Ø 19 / L = 71.5                                                                                      |
| Material                                                  | stainless steel (630/1.4542/17-4 PH); stainless steel (1.4404 / 316L); PPS                           |
| 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                                | HNBR (DIN EN ISO 1179-2)                                                                             |
| Restrictor element integrated                             | yes                                                                                                  |

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Pressure transmitter

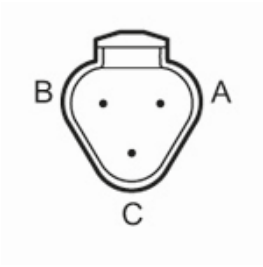
PU-025-SEG14-B-DVG/DE

Remarks

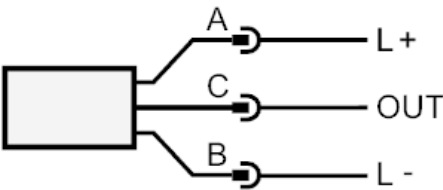
|               |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Maximum cable length: 30 m



Connection



OUT                  analog output