

# PU523E



## Pressure transmitter

PU-060-SEG14-C-DVG/US



1 Sealing



### Product characteristics

|                              |                                                               |             |           |
|------------------------------|---------------------------------------------------------------|-------------|-----------|
| Number of inputs and outputs | Number of analogue outputs: 1                                 |             |           |
| Measuring range              | 0...60 bar                                                    | 0...870 psi | 0...6 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   | 900 bar                 | 13050 psi | 90 MPa |
| Pressure rating          | 150 bar                 | 2175 psi  | 15 MPa |
| Note on pressure rating  | static                  |           |        |
| Vacuum resistance [mbar] | -1000                   |           |        |
| Vacuum resistance [MPa]  | -0.1                    |           |        |
| Type of pressure         | relative pressure       |           |        |

### Electrical data

|                                 |                 |
|---------------------------------|-----------------|
| Operating voltage [V]           | 8...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 analogue outputs: 1 |
|------------------------------|-------------------------------|

### Outputs

|                            |                 |
|----------------------------|-----------------|
| Total number of outputs    | 1               |
| Output signal              | analogue signal |
| Number of analogue outputs | 1               |



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|                                    |                                                |                                                                                                 |
|------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Analogue voltage output            | [V]                                            | 0.5...4.5                                                                                       |
| Min. load resistance               | [Ω]                                            | 2000                                                                                            |
| Short-circuit proof                |                                                | yes                                                                                             |
| Overload protection                |                                                | yes                                                                                             |
| <b>Measuring/setting range</b>     |                                                |                                                                                                 |
| Measuring range                    | 0...60 bar                                     | 0...870 psi                                                                                     |
|                                    |                                                | 0...6 MPa                                                                                       |
| <b>Accuracy / deviations</b>       |                                                |                                                                                                 |
| Repeatability                      | [% of the span]                                | < ± 0,05; (with temperature fluctuations < 10 K)                                                |
| Characteristics deviation          | [% of the span]                                | < ± 0,8; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation                | [% of the span]                                | < ± 0,25 (BFSL) / < ± 0,5 (LS)                                                                  |
| Hysteresis deviation               | [% of the span]                                | < ± 0,2                                                                                         |
| Long-term stability                | [% of the span]                                | < ± 0,1; (per 6 months)                                                                         |
| Temperature coefficient zero point | [% of the span / 10 K]                         | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |
| Temperature coefficient span       | [% of the span / 10 K]                         | < ± 0,1 (0...80 °C); < ± 0,2 (-40...0 °C / 80...125 °C)                                         |
| <b>Response times</b>              |                                                |                                                                                                 |
| Step response time analogue 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                                | noise immunity according to UN ECE R10, rev. 6 |                                                                                                 |
|                                    | ISO 11452-2                                    | 100 V/m                                                                                         |
|                                    | 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]                                        | 658                                                                                             |
| Pressure Equipment Directive       |                                                | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request           |
| <b>Mechanical data</b>             |                                                |                                                                                                 |
| Weight                             | [g]                                            | 58.3                                                                                            |
| 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)                                   |

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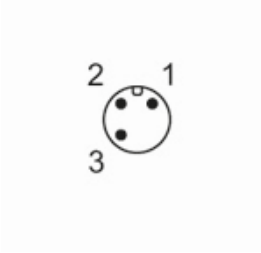
|                               |                          |
|-------------------------------|--------------------------|
| Process connection sealing    | HNBR (DIN EN ISO 1179-2) |
| Restrictor element integrated | yes                      |

Remarks

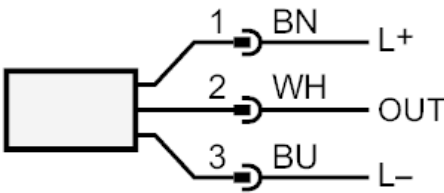
|               |                                                           |
|---------------|-----------------------------------------------------------|
| Remarks       | BFSL = Best Fit Straight Line<br>LS = limit value setting |
| Pack quantity | 1 pcs.                                          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

Electrical connection

Connector: 1 x M12; coding: A; Maximum cable length: 30 m



Connection



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