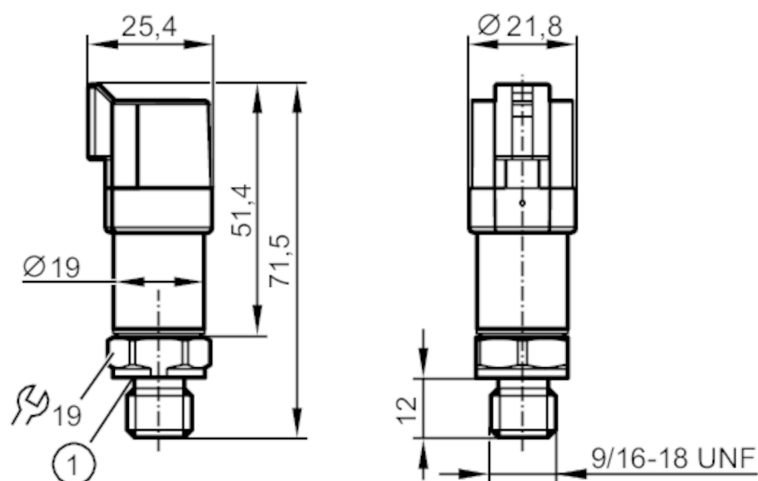




### Product characteristics

|                              |                                                    |
|------------------------------|----------------------------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1                      |
| Measuring range [psi]        | 0...500                                            |
| Process connection           | threaded connection 9/16" - 18 UNF external thread |

### Application

|                              |                         |
|------------------------------|-------------------------|
| Application                  | for mobile applications |
| Media                        | liquids and gases       |
| Medium temperature [°C]      | -40...125               |
| Min. bursting pressure [psi] | 11600                   |
| Pressure rating [psi]        | 1450                    |
| Note on pressure rating      | static                  |
| Vacuum resistance [psi]      | -14.5                   |
| 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               |



## Pressure transmitter

PU-050PSEU96-V-DVG/DE

|                                    |                        |                                                                                                      |
|------------------------------------|------------------------|------------------------------------------------------------------------------------------------------|
| 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                    | [psi]                  | 0...500                                                                                              |
| <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); $< \pm 0,2$ (-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                                |                        | compliant with UN ECE R10, rev. 5                                                                    |
|                                    |                        | 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]                    | 61                                                                                                   |
| Materials                          |                        | 1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PPS                                         |
| 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 9/16" - 18 UNF external thread                                                   |
| Process connection sealing         |                        | HNBR (DIN EN ISO 1179-2)                                                                             |
| Restrictor element integrated      |                        | yes                                                                                                  |

PU1743



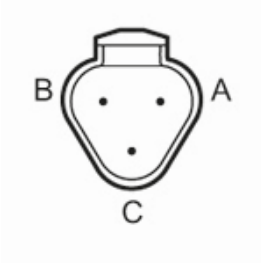
Pressure transmitter

PU-050PSEU96-V-DVG/DE

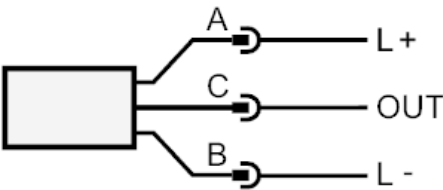
| Remarks       |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

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



Connection



OUT                      analogue output