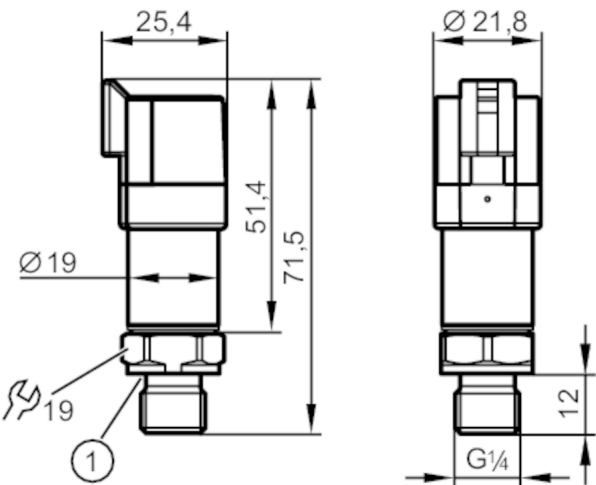




Pressure transmitter

PU-100-SEG14-V-DVG/DE



1      Sealing



| Product characteristics         |                                                               |              |            |
|---------------------------------|---------------------------------------------------------------|--------------|------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                 |              |            |
| Measuring range                 | 0...100 bar                                                   | 0...1450 psi | 0...10 MPa |
| Process connection              | threaded connection G 1/4 external thread (DIN EN ISO 1179-2) |              |            |
| Application                     |                                                               |              |            |
| Measuring element               | metallic thin film cell                                       |              |            |
| Application                     | for mobile applications                                       |              |            |
| Media                           | liquids and gases                                             |              |            |
| Medium temperature [°C]         | -40...125                                                     |              |            |
| Min. bursting pressure          | 1000 bar                                                      | 14500 psi    | 100 MPa    |
| Pressure rating                 | 250 bar                                                       | 3625 psi     | 25 MPa     |
| Note on pressure rating         | static                                                        |              |            |
| Vacuum resistance               | -1000 mbar                                                    | -0.1 MPa     |            |
| 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                                                             |              |            |
| Analogue voltage output [V]     | 0.5...4.5                                                     |              |            |



## Pressure transmitter

PU-100-SEG14-V-DVG/DE

|                                    |                        |                                                                                                 |
|------------------------------------|------------------------|-------------------------------------------------------------------------------------------------|
| Min. load resistance               | [Ω]                    | 2000                                                                                            |
| Short-circuit proof                |                        | yes                                                                                             |
| Overload protection                |                        | yes                                                                                             |
| <b>Measuring/setting range</b>     |                        |                                                                                                 |
| Measuring range                    | 0...100 bar            | 0...1450 psi                                                                                    |
|                                    |                        | 0...10 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                                |                        | 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                                                                                              |
| Housing                            |                        | cylindrical                                                                                     |
| Dimensions                         | [mm]                   | Ø 19 / L = 71.5                                                                                 |
| Materials                          |                        | stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PPS                        |
| Materials (wetted parts)           |                        | stainless steel (630/1.4542/17-4 PH); stainless steel (303/1.4305)                              |
| 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)                                                                        |

PU8702



Pressure transmitter

PU-100-SEG14-V-DVG/DE

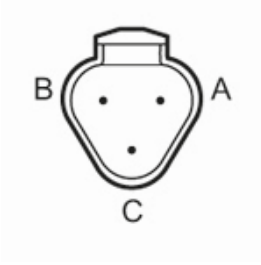
|                               |     |
|-------------------------------|-----|
| Restrictor element integrated | yes |
|-------------------------------|-----|

Remarks

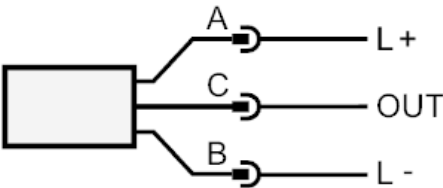
|               |                                                           |
|---------------|-----------------------------------------------------------|
| Remarks       | BFSL = Best Fit Straight Line<br>LS = limit value setting |
| Pack quantity | 1 pcs.                                          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

Electrical connection

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



Connection



OUT                      analogue output