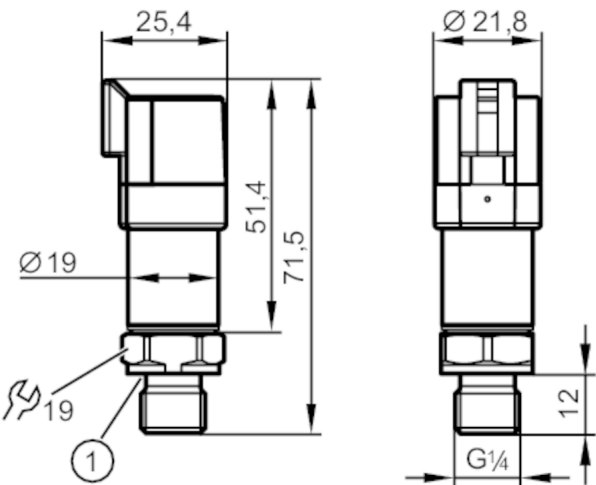


PT760E



Pressure transmitter

PT-600-SEG14-A-ZVG/DE



1      sealing



Product characteristics

|                              |                                                               |              |            |
|------------------------------|---------------------------------------------------------------|--------------|------------|
| Number of inputs and outputs | Number of analog outputs: 1                                   |              |            |
| Measuring range              | 0...600 bar                                                   | 0...8700 psi | 0...60 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. burst pressure     | 2500 bar                | 36255 psi | 250 MPa |
| Pressure rating         | 1500 bar                | 21755 psi | 150 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       |
| 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 current output [mA] | 4...20                                                            |
| Max. load [Ω]              | (Ub - 8 V) / 21,5 mA; @8V = 0 Ω; @12V max. 200 Ω; @24V max. 750 Ω |
| Short-circuit proof        | yes                                                               |

# PT760E



## Pressure transmitter

PT-600-SEG14-A-ZVG/DE

|                                                           |  |                                                                                                 |                     |            |
|-----------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|---------------------|------------|
| Overload protection                                       |  | yes                                                                                             |                     |            |
| Measuring/setting range                                   |  |                                                                                                 |                     |            |
| Measuring range                                           |  | 0...600 bar                                                                                     | 0...8700 psi        | 0...60 MPa |
| Accuracy / deviations                                     |  |                                                                                                 |                     |            |
| 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)                                         |                     |            |
| Reaction times                                            |  |                                                                                                 |                     |            |
| Step response time analog output [ms]                     |  | 2                                                                                               |                     |            |
| Operating conditions                                      |  |                                                                                                 |                     |            |
| Ambient temperature [°C]                                  |  | -40...100                                                                                       |                     |            |
| Storage temperature [°C]                                  |  | -40...100                                                                                       |                     |            |
| Protection                                                |  | IP 67; IP 69K                                                                                   |                     |            |
| Tests / approvals                                         |  |                                                                                                 |                     |            |
| 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]                                              |  | 711                                                                                             |                     |            |
| Pressure equipment directive                              |  | Modul A; can be used for group 2 fluids; group 1 fluids on request                              |                     |            |
| Mechanical data                                           |  |                                                                                                 |                     |            |
| Weight [g]                                                |  | 62.8                                                                                            |                     |            |
| 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]                                    |  | 30...50; (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                                                                                             |                     |            |

PT760E



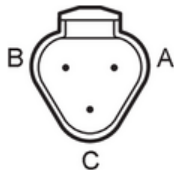
Pressure transmitter

PT-600-SEG14-A-ZVG/DE

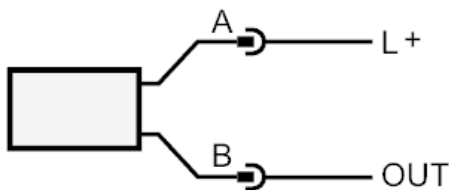
| Remarks       |                                                           |
|---------------|-----------------------------------------------------------|
| Remarks       | BFSL = Best Fit Straight Line<br>LS = limit value setting |
| Pack quantity | 1 pcs.                                          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

Electrical connection

Connector: 1 x DEUTSCH connector (DT04-3P); Contacts: 3



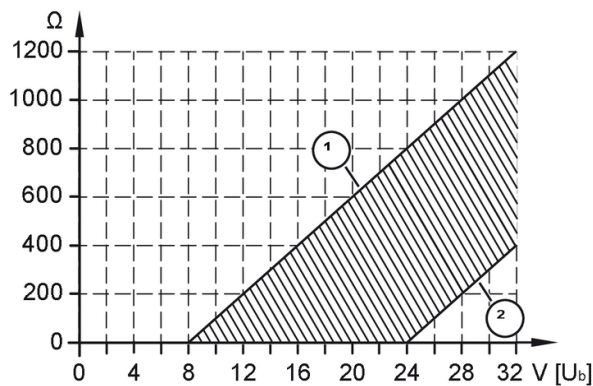
Connection



OUT analog output

Diagrams and graphs

Characteristic load curve current output



- 1: Max. load
- 2: Min. load