

PU8760



Pressure transmitter

PU-600-SEG14-V-DVG/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                     |                                                               |              |            |
| Measuring element               | metallic thin film cell                                       |              |            |
| Application                     | for mobile applications                                       |              |            |
| Media                           | liquids and gases                                             |              |            |
| Medium temperature [°C]         | -40...125                                                     |              |            |
| Min. bursting 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                                                     |              |            |
| 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]       | 0.5...4.5                                                     |              |            |



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|                      |     |      |
|----------------------|-----|------|
| Min. load resistance | [Ω] | 2000 |
| Short-circuit proof  |     | yes  |
| 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                          | 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 | Modul A; can be used for group 2 fluids; group 1 fluids on request |                     |

### Mechanical data

|                            |      |                                                                                            |
|----------------------------|------|--------------------------------------------------------------------------------------------|
| Weight                     | [g]  | 62                                                                                         |
| 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); stainless steel (1.4305 / 303)                       |
| 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)                                                                   |

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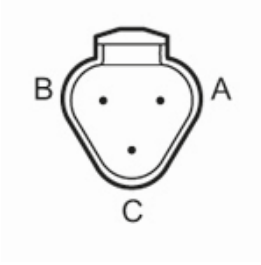
|                               |     |
|-------------------------------|-----|
| Restrictor element integrated | yes |
|-------------------------------|-----|

Remarks

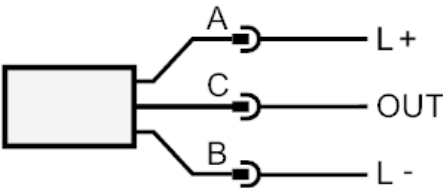
|               |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

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



Connection



OUT                      analog output