



**Pressure transmitter**

PU-400-SEG14-B-DVG/AM



1      Sealing



| Product characteristics         |                                                               |              |            |
|---------------------------------|---------------------------------------------------------------|--------------|------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                                 |              |            |
| Measuring range                 | 0...400 bar                                                   | 0...5800 psi | 0...40 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          | 1700 bar                                                      | 24655 psi    | 170 MPa    |
| Pressure rating                 | 1000 bar                                                      | 14500 psi    | 100 MPa    |
| Note on pressure rating         | static                                                        |              |            |
| Vacuum resistance [mbar]        | -1000                                                         |              |            |
| Type of pressure                | relative pressure                                             |              |            |
| Electrical data                 |                                                               |              |            |
| Operating voltage [V]           | 16...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...10                                                                                          |            |
| Min. load resistance               | [Ω]                                                                                   | 2000                                                                                            |            |
| Short-circuit proof                |                                                                                       | yes                                                                                             |            |
| Overload protection                |                                                                                       | yes                                                                                             |            |
| Measuring/setting range            |                                                                                       |                                                                                                 |            |
| Measuring range                    | 0...400 bar                                                                           | 0...5800 psi                                                                                    | 0...40 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)                                         |            |
| Response times                     |                                                                                       |                                                                                                 |            |
| Step response time analogue 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                                                     | (E1 compliant)                                                                                  |            |
|                                    | 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]                                                                               | 640                                                                                             |            |
| Pressure Equipment Directive       | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                                                                                                 |            |
| Mechanical data                    |                                                                                       |                                                                                                 |            |
| Weight                             | [g]                                                                                   | 62.5                                                                                            |            |
| 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)                                                            |            |
| 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)                                                                        |            |
| Restrictor element integrated      |                                                                                       | yes                                                                                             |            |

PU5600



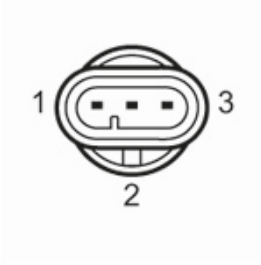
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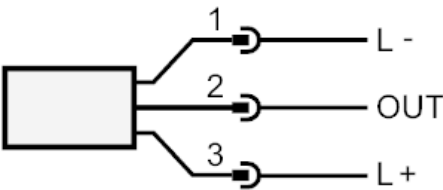
| Remarks       |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

Connector: 1 x AMP-Superseal; Maximum cable length: 30 m



Connection



OUT                      analogue output