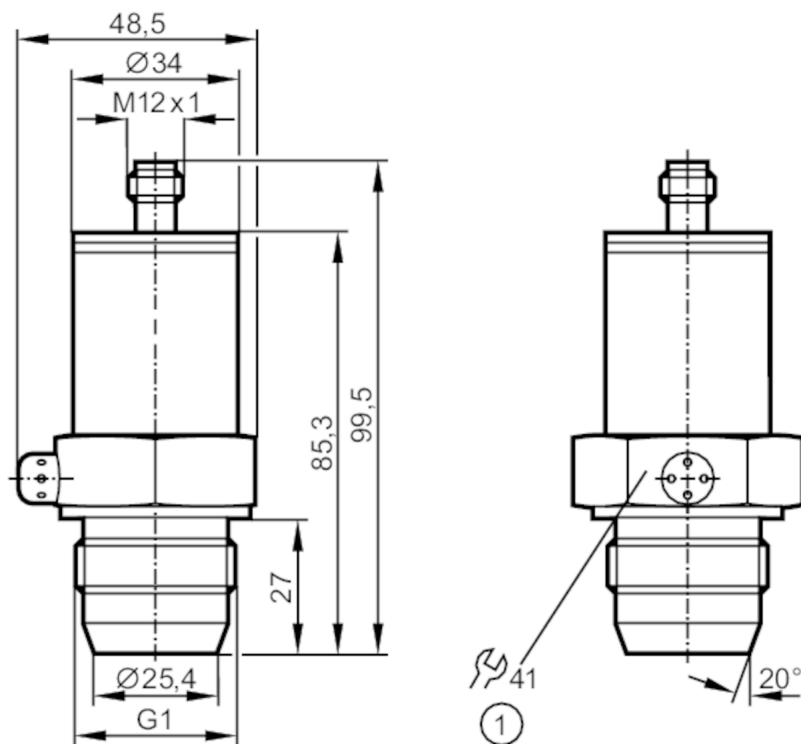


# PL2653



## Flush pressure transmitter

PL-025-REA01-E-ZVG/US/ /P



1 Tightening torque 20 Nm



EC 1935/2004 EHEDG Tested



### Application

|                         |                                                                       |          |        |
|-------------------------|-----------------------------------------------------------------------|----------|--------|
| Application             | hygienic systems                                                      |          |        |
| Media                   | viscous media and liquids with suspended particles; liquids and gases |          |        |
| Medium temperature [°C] | -25...80                                                              |          |        |
| Pressure rating         | 100 bar                                                               | 1450 psi | 10 MPa |
| Min. bursting pressure  | 350 bar                                                               | 5070 psi | 35 MPa |
| Type of pressure        | relative pressure                                                     |          |        |
| No dead space           | yes                                                                   |          |        |

### Electrical data

|                                 |                 |
|---------------------------------|-----------------|
| Operating voltage [V]           | 14...30 DC      |
| Min. insulation resistance [MΩ] | 100; (500 V DC) |
| Protection class                | III             |
| Reverse polarity protection     | yes             |

### Inputs / outputs

|                              |                               |
|------------------------------|-------------------------------|
| Number of inputs and outputs | Number of analogue outputs: 1 |
|------------------------------|-------------------------------|



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| Outputs                                                   |                                                                                                         |               |                 |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------|-----------------|
| Total number of outputs                                   | 1                                                                                                       |               |                 |
| Output signal                                             | analogue signal                                                                                         |               |                 |
| Number of analogue outputs                                | 1                                                                                                       |               |                 |
| Analogue current output [mA]                              | 4...20                                                                                                  |               |                 |
| Max. load [Ω]                                             | 550; (Ub = 24 V; (Ub - 13 V) / 20 mA)                                                                   |               |                 |
| Overload protection                                       | yes                                                                                                     |               |                 |
| Measuring/setting range                                   |                                                                                                         |               |                 |
| Measuring range                                           | -1...25 bar                                                                                             | -15...363 psi | -0.1...2.5 MPa  |
| Analogue start point                                      | -1...18.8 bar                                                                                           | -15...272 psi | -0.1...1.88 MPa |
| Analogue end point                                        | 5.3...25 bar                                                                                            | 76...363 psi  | 0.53...2.5 MPa  |
| In steps of                                               | 0.1 bar                                                                                                 | 1 psi         | 0.01 MPa        |
| Factory setting                                           |                                                                                                         | ASP = 0.0 bar | AEP = 25.0 bar  |
| Accuracy / deviations                                     |                                                                                                         |               |                 |
| Repeatability [% of the span]                             | < ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)                                          |               |                 |
| Characteristics deviation [% of the span]                 | < ± 0,6; (Turn down 1:1 linearity, incl. hysteresis and repeatability limit value setting to DIN 16086) |               |                 |
| Linearity deviation [% of the span]                       | < ± 0,5; (Turn down 1:1)                                                                                |               |                 |
| Hysteresis deviation [% of the span]                      | < ± 0,1; (Turn down 1:1)                                                                                |               |                 |
| Long-term stability [% of the span]                       | < ± 0,1; (Turn down 1:1; per year)                                                                      |               |                 |
| Temperature coefficient zero point [% of the span / 10 K] | < ± 0,1; (0...80 °C)                                                                                    |               |                 |
| Temperature coefficient span [% of the span / 10 K]       | < ± 0,2; (0...80 °C)                                                                                    |               |                 |
| Response times                                            |                                                                                                         |               |                 |
| Max. response time analogue output [ms]                   | 3                                                                                                       |               |                 |
| Software / programming                                    |                                                                                                         |               |                 |
| Parameter setting options                                 | zero point; span                                                                                        |               |                 |
| Interfaces                                                |                                                                                                         |               |                 |
| Communication interface                                   | EPS                                                                                                     |               |                 |
| Operating conditions                                      |                                                                                                         |               |                 |
| Ambient temperature [°C]                                  | -25...80                                                                                                |               |                 |
| Storage temperature [°C]                                  | -40...100                                                                                               |               |                 |
| Protection                                                | IP 67                                                                                                   |               |                 |

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| Tests / approvals    |                           |                     |
|----------------------|---------------------------|---------------------|
| EMC                  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD   |
|                      | EN 61000-4-3 HF radiated  | 10 V/m              |
|                      | EN 61000-4-4 Burst        | 2 kV                |
|                      | EN 61000-4-6 HF conducted | 10 V                |
| Shock resistance     | DIN IEC 68-2-27           | 50 g (11 ms)        |
| Vibration resistance | DIN IEC 68-2-6            | 20 g (10...2000 Hz) |
| MTTF                 | [years]                   | 271                 |

| Mechanical data          |                                                                                                          |       |
|--------------------------|----------------------------------------------------------------------------------------------------------|-------|
| Weight                   | [g]                                                                                                      | 387.6 |
| Materials                | stainless steel (1.4404 / 316L); PEI; FKM                                                                |       |
| Materials (wetted parts) | ceramics (99.9 % Al2O3); PTFE; stainless steel (1.4435 / 316L); surface characteristics: Ra < 0,4 / Rz 4 |       |
| Min. pressure cycles     | 100 million                                                                                              |       |
| Process connection       | threaded connection G 1 external thread sealing cone                                                     |       |

| Remarks       |                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------|
| Remarks       | The 3-A qualification is only valid if adapters with 3-A qualification are used for installation. |
| Pack quantity | 1 pcs.                                                                                            |

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

