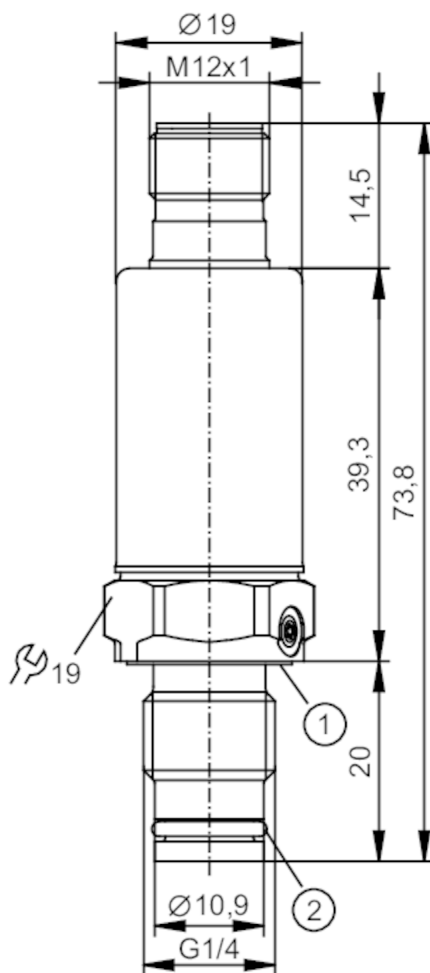


# PL5401



## Flush pressure transmitter

PL-250-SEG14-A-ZVG/US/ IW



- 1 Gasket DIN 3869-14-FKM  
2 O-ring 8.5 x 1.5 FKM



### Product characteristics

|                              |                                           |              |            |
|------------------------------|-------------------------------------------|--------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1             |              |            |
| Measuring range              | 0...250 bar                               | 0...3625 psi | 0...25 MPa |
| Process connection           | threaded connection G 1/4 external thread |              |            |

### Application

|                          |                                                                          |           |          |
|--------------------------|--------------------------------------------------------------------------|-----------|----------|
| Measuring element        | thin film measuring cell with diaphragm seal technique                   |           |          |
| Application              | flush mountable for industrial applications; for industrial applications |           |          |
| Media                    | viscous media and liquids with suspended particles; liquids and gases    |           |          |
| Medium temperature [°C]  | -20...90                                                                 |           |          |
| Min. bursting pressure   | 1200 bar                                                                 | 17400 psi | 120 MPa  |
| Pressure rating          | 625 bar                                                                  | 9060 psi  | 62.5 MPa |
| Note on pressure rating  | static                                                                   |           |          |
| Vacuum resistance [mbar] | -1000                                                                    |           |          |
| Type of pressure         | relative pressure                                                        |           |          |



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| Electrical data                    |                        |                                                                                                 |                            |
|------------------------------------|------------------------|-------------------------------------------------------------------------------------------------|----------------------------|
| Operating voltage                  | [V]                    | 8.5...36 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 analogue outputs: 1                                                                   |                            |
| Outputs                            |                        |                                                                                                 |                            |
| Total number of outputs            |                        | 1                                                                                               |                            |
| Output signal                      |                        | analogue signal                                                                                 |                            |
| Number of analogue outputs         |                        | 1                                                                                               |                            |
| Analogue current output            | [mA]                   | 4...20                                                                                          |                            |
| Max. load                          | [Ω]                    | (Ub – 8,5 V) / 21,5 mA; @8,5V= 0 Ω; @12V max. 160 Ω; @24V max. 720 Ω                            |                            |
| Short-circuit proof                |                        | yes                                                                                             |                            |
| Overload protection                |                        | yes                                                                                             |                            |
| Measuring/setting range            |                        |                                                                                                 |                            |
| Measuring range                    |                        | 0...250 bar                                                                                     | 0...3625 psi    0...25 MPa |
| Accuracy / deviations              |                        |                                                                                                 |                            |
| Repeatability                      | [% of the span]        | < ± 0,05; (with temperature fluctuations < 10 K)                                                |                            |
| Characteristics deviation          | [% of the span]        | < ± 0,5; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |                            |
| Linearity deviation                | [% of the span]        | < ± 0,1 (BFSL) / < ± 0,2 (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] | < 0,2 (-25...90 °C)                                                                             |                            |
| Temperature coefficient span       | [% of the span / 10 K] | < 0,15 (-25...90 °C)                                                                            |                            |
| Response times                     |                        |                                                                                                 |                            |
| Step response time analogue output | [ms]                   | 2                                                                                               |                            |
| Operating conditions               |                        |                                                                                                 |                            |
| Ambient temperature                | [°C]                   | -25...90                                                                                        |                            |
| Storage temperature                | [°C]                   | -25...100                                                                                       |                            |
| Protection                         |                        | IP 67; IP 69K                                                                                   |                            |
| Tests / approvals                  |                        |                                                                                                 |                            |
| EMC                                |                        | DIN EN 61000-6-2                                                                                |                            |
|                                    |                        | DIN EN 61000-6-3                                                                                |                            |
| Shock resistance                   |                        | DIN EN 60068-2-27                                                                               | 50 g (11 ms)               |
| Vibration resistance               |                        | DIN EN 60068-2-6                                                                                | 20 g (10...2000 Hz)        |

# PL5401



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|             |                 |         |
|-------------|-----------------|---------|
| MTTF        | [years]         | 787     |
| UL approval | UL Approval no. | J046    |
|             | File number UL  | E174189 |

### Mechanical data

|                                      |                                                                          |                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Weight                               | [g]                                                                      | 64                                                                                         |
| Materials                            | stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4404); PEI |                                                                                            |
| Materials (wetted parts)             | stainless steel (630/1.4542/17-4 PH); stainless steel (316L/1.4435); FKM |                                                                                            |
| 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                                |                                                                                            |
| Process connection sealing           | FKM                                                                      |                                                                                            |
| Fill fluid for pressure transmission | NEOBEE (food grade, FDA compliant)                                       |                                                                                            |

### Accessories

|                        |                                                    |
|------------------------|----------------------------------------------------|
| Items supplied         | O-ring : 8,5mm x 1,5mm, FKM, E30517                |
|                        | Gasket : G1/4 DIN EN ISO 1179-2, FKM, E30145       |
| Accessories (optional) | O-ring : 5 x (8,5mm x 1,5 mm), FKM, E30517         |
|                        | O-ring : 1 x (8,5mm x 1,5 mm), FFKM, E30518        |
|                        | O-ring : 5 x (8,5mm x 1,5 mm), EPDM, E30519        |
|                        | Gasket : 10 x G1/4 DIN EN ISO 1179-2, FKM, E30145  |
|                        | Gasket : 1 x G1/4 DIN EN ISO 1179-2, FFKM, E30520  |
|                        | Gasket : 10 x G1/4 DIN EN ISO 1179-2, EPDM, E30442 |

### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A



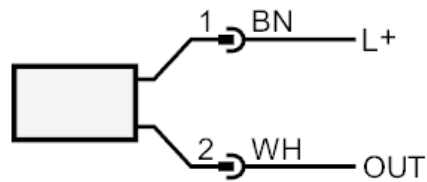
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### Connection



|     |                                                                  |
|-----|------------------------------------------------------------------|
| OUT | analogue output<br>colours to DIN EN 60947-5-2<br>Core colours : |
| BN  | brown                                                            |
| WH  | white                                                            |