



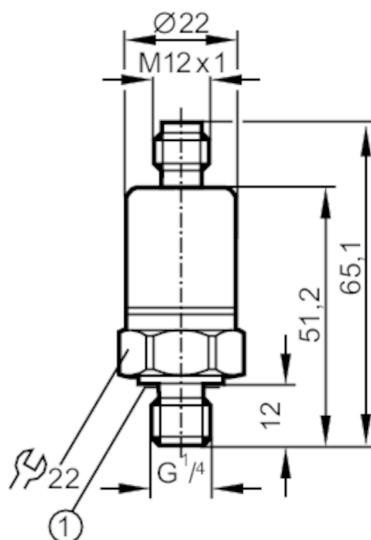
## Pressure transmitter

PT-250-SBG14-B-DVG/US/ IW

phase-out article

Alternative articles: PU5401

When selecting an alternative article and accessories please note that technical data may differ!



1 Sealing  
Tightening torque 25 Nm



## 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

|                         |                             |           |         |
|-------------------------|-----------------------------|-----------|---------|
| Application             | for industrial applications |           |         |
| Media                   | liquids and gases           |           |         |
| Medium temperature [°C] | -25...90                    |           |         |
| Min. bursting pressure  | 1000 bar                    | 14500 psi | 100 MPa |
| Pressure rating         | 400 bar                     | 5800 psi  | 40 MPa  |
| Type of pressure        | relative pressure           |           |         |

## Electrical data

|                                 |                 |  |  |
|---------------------------------|-----------------|--|--|
| Operating voltage [V]           | 16...36 DC      |  |  |
| Current consumption [mA]        | < 6             |  |  |
| 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 |
|------------------------------|-------------------------------|

## Outputs

|                         |   |
|-------------------------|---|
| Total number of outputs | 1 |
|-------------------------|---|



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|                                                           |                                                                                       |                          |            |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|------------|
| Output signal                                             | analogue signal                                                                       |                          |            |
| Number of analogue outputs                                | 1                                                                                     |                          |            |
| Analogue voltage output [V]                               | 0...10                                                                                |                          |            |
| Min. load resistance [Ω]                                  | 2000                                                                                  |                          |            |
| Measuring/setting range                                   |                                                                                       |                          |            |
| Measuring range                                           | 0...250 bar                                                                           | 0...3625 psi             | 0...25 MPa |
| Accuracy / deviations                                     |                                                                                       |                          |            |
| Repeatability [% of the span]                             | < ± 0,1; (with temperature fluctuations < 10 K)                                       |                          |            |
| Characteristics deviation [% of the span]                 | < ± 1,0; (incl. drift when overtightened, zero point and span error)                  |                          |            |
| 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; (-25...90 °C)                                                                |                          |            |
| Temperature coefficient span [% of the span / 10 K]       | < ± 0,1; (-25...90 °C)                                                                |                          |            |
| Response times                                            |                                                                                       |                          |            |
| Step response time analogue output [ms]                   | 3                                                                                     |                          |            |
| Operating conditions                                      |                                                                                       |                          |            |
| Ambient temperature [°C]                                  | -25...90                                                                              |                          |            |
| Storage temperature [°C]                                  | -40...100                                                                             |                          |            |
| Protection                                                | IP 67; IP 69K                                                                         |                          |            |
| 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                                                                    | 4 kV coupling clamp      |            |
|                                                           | EN 61000-4-5 Surge                                                                    | 1 kV signal for DC units |            |
|                                                           | 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]                                              | 1116                                                                                  |                          |            |
| Pressure Equipment Directive                              | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                          |            |
| Mechanical data                                           |                                                                                       |                          |            |
| Weight [g]                                                | 82.5                                                                                  |                          |            |
| Materials                                                 | stainless steel (316L/1.4404); PA                                                     |                          |            |
| Materials (wetted parts)                                  | stainless steel (316L/1.4404); FKM                                                    |                          |            |
| Min. pressure cycles                                      | 50 million                                                                            |                          |            |
| Process connection                                        | threaded connection G 1/4 external thread                                             |                          |            |
| Restrictor element integrated                             | no (can be retrofitted)                                                               |                          |            |



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### Remarks

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

### Electrical connection

Connector: 1 x M12; coding: A



### Connection

