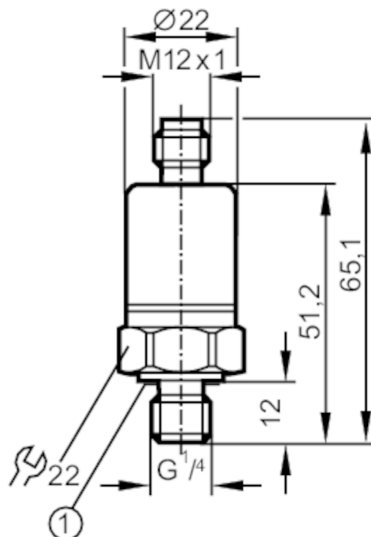




## Pressure transmitter

PT-010-RBG14-B-DVG/US/ IW



- 1 Sealing  
Tightening torque 25 Nm



## Application

|                              |                             |
|------------------------------|-----------------------------|
| Application                  | for industrial applications |
| Media                        | liquids and gases           |
| Medium temperature [°C]      | -25...90                    |
| Pressure rating [bar]        | 25                          |
| Min. bursting pressure [bar] | 300                         |
| 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             |

## Outputs

|                             |                 |
|-----------------------------|-----------------|
| Total number of outputs     | 1               |
| 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 [bar] | 0...10 |
|-----------------------|--------|

## Accuracy / deviations

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| Repeatability [% of the span] | < ± 0,1; (with temperature fluctuations < 10 K)                      |
| Characteristics deviation     | < ± 1,0; (incl. drift when overtightened, zero point and span error) |



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|                                    |                        |                                |
|------------------------------------|------------------------|--------------------------------|
|                                    | [% of the span]        |                                |
| Linearity deviation                |                        | < ± 0,25 (BFSL) / < ± 0,5 (LS) |
|                                    | [% of the span]        |                                |
| Hysteresis deviation               |                        | < ± 0,2                        |
|                                    | [% of the span]        |                                |
| Long-term stability                |                        | < ± 0,1; (per 6 months)        |
|                                    | [% of the span]        |                                |
| Temperature coefficient zero point |                        | < ± 0,1; (-25...90 °C)         |
|                                    | [% of the span / 10 K] |                                |
| Temperature coefficient span       |                        | < ± 0,1; (-25...90 °C)         |
|                                    | [% of the span / 10 K] |                                |

## 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                     |

## Mechanical data

|                          |     |                                           |
|--------------------------|-----|-------------------------------------------|
| Weight                   | [g] | 84.5                                      |
| Materials                |     | stainless steel (1.4404 / 316L); PA       |
| Materials (wetted parts) |     | stainless steel (1.4404 / 316L); FKM      |
| Min. pressure cycles     |     | 50 million                                |
| Process connection       |     | threaded connection G 1/4 external thread |

## Remarks

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

## Electrical connection

Connector: 1 x M12

# PT9544

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### Connection

