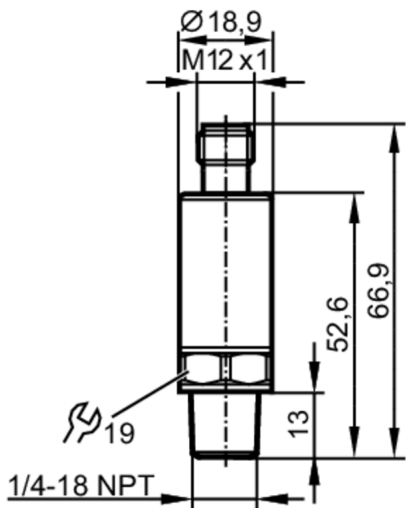


# PT2415



## Pressure transmitter

PT-010PSEN14-A-ZVG/US/ IW



| Product characteristics                        |                                              |             |
|------------------------------------------------|----------------------------------------------|-------------|
| Number of inputs and outputs                   | Number of analogue outputs: 1                |             |
| Measuring range                                | 0...100 psi                                  | 0...690 kPa |
| Process connection                             | threaded connection 1/4" NPT external thread |             |
| Application                                    |                                              |             |
| Application                                    | for industrial applications                  |             |
| Media                                          | liquids and gases                            |             |
| Medium temperature [°C]                        | -40...90                                     |             |
| Min. bursting pressure                         | 2900 psi                                     | 19.99 MPa   |
| Pressure rating                                | 250 psi                                      | 1.7 MPa     |
| Note on pressure rating                        | static                                       |             |
| Vacuum resistance                              | -14.5 psi                                    | -0.1 MPa    |
| Type of pressure                               | relative pressure                            |             |
| MAWP (for applications according to CRN) [psi] | 250                                          |             |
| 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                                            |             |



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|                                             |                                                                                       |                                                                                                 |
|---------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 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...100 psi                                                                           | 0...690 kPa                                                                                     |
| 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 and span | [% of the span / 10 K]                                                                | < 0,1 (-25...90 °C) / < 0,2 (-40...-25 °C)                                                      |
| Response times                              |                                                                                       |                                                                                                 |
| Step response time analogue output          | [ms]                                                                                  | 1                                                                                               |
| Operating conditions                        |                                                                                       |                                                                                                 |
| Ambient temperature                         | [°C]                                                                                  | -40...90                                                                                        |
| Storage temperature                         | [°C]                                                                                  | -40...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)                                                                             |
| MTTF                                        | [years]                                                                               | 784                                                                                             |
| Pressure Equipment Directive                | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request |                                                                                                 |
| Mechanical data                             |                                                                                       |                                                                                                 |
| Weight                                      | [g]                                                                                   | 57.5                                                                                            |
| Housing                                     |                                                                                       | cylindrical                                                                                     |
| Dimensions                                  | [mm]                                                                                  | Ø 18.9 / L = 66.9                                                                               |
| 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)                                                            |
| Min. pressure cycles                        |                                                                                       | 60 million; (at 1.2 times nominal pressure)                                                     |
| Tightening torque                           | [Nm]                                                                                  | < 50; (recommended tightening torque; depends on lubrication, seal and pressure rating)         |
| Process connection                          |                                                                                       | threaded connection 1/4" NPT external thread                                                    |
| Restrictor element integrated               |                                                                                       | no (can be retrofitted)                                                                         |

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Remarks

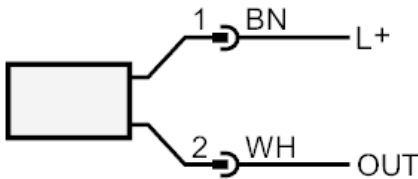
|               |                               |
|---------------|-------------------------------|
| Remarks       | BFSL = Best Fit Straight Line |
|               | LS = limit value setting      |
| Pack quantity | 1 pcs.                        |

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT                    analogue output  
                         colours to DIN EN 60947-5-2  
                         Core colours :  
BN =                    brown  
WH =                    white