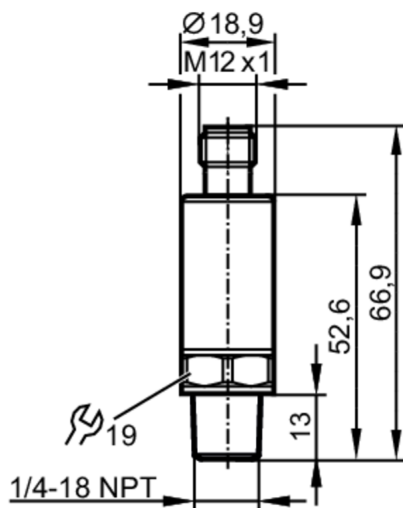


# PT2424



## Pressure transmitter

PT-020PSEN14-A-ZVG/US/ IW



| Application                              |       |                                                                  |
|------------------------------------------|-------|------------------------------------------------------------------|
| Application                              |       | for industrial applications                                      |
| Media                                    |       | liquids and gases                                                |
| Medium temperature                       | [°C]  | -40...90                                                         |
| Pressure rating                          | [psi] | 580                                                              |
| Note on pressure rating                  |       | static                                                           |
| Min. bursting pressure                   | [psi] | 6525                                                             |
| Vacuum resistance                        | [psi] | -14.5                                                            |
| Type of pressure                         |       | relative pressure                                                |
| MAWP (for applications according to CRN) | [psi] | 580                                                              |
| Electrical data                          |       |                                                                  |
| Operating voltage                        | [V]   | 8.5...36 DC                                                      |
| 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 current output                  | [mA]  | 4...20                                                           |
| Max. load                                | [Ω]   | 720; (U <sub>b</sub> = 24 V; (U <sub>b</sub> - 8,5 V) / 21,5 mA) |
| Short-circuit proof                      |       | yes                                                              |
| Overload protection                      |       | yes                                                              |
| Measuring/setting range                  |       |                                                                  |
| Measuring range                          | [psi] | 0...200                                                          |



## Pressure transmitter

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| 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                                                                                            |
| Materials                                   | 1.4542 (17-4 PH / 630); stainless steel (1.4404 / 316L); PEI                          |                                                                                                 |
| Materials (wetted parts)                    | 1.4542 (17-4 PH / 630)                                                                |                                                                                                 |
| 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)                                                               |                                                                                                 |
| Remarks                                     |                                                                                       |                                                                                                 |
| Remarks                                     | BFSL = Best Fit Straight Line                                                         |                                                                                                 |
|                                             | LS = limit value setting                                                              |                                                                                                 |
| Pack quantity                               | 1 pcs.                                                                                |                                                                                                 |
| Electrical connection                       |                                                                                       |                                                                                                 |
| Connector: 1 x M12                          |                                                                                       |                                                                                                 |

# PT2424

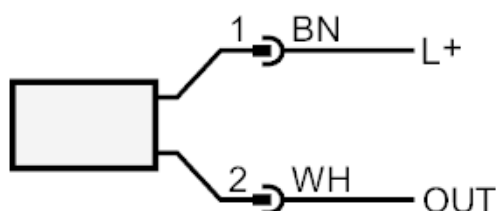


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PT-020PSEN14-A-ZVG/US/ IW



### Connection



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