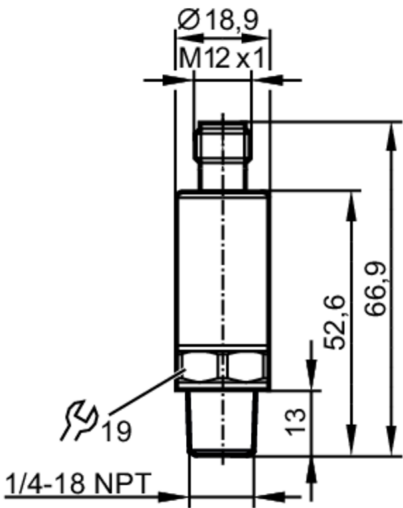


# PT2415



## Pressure transmitter

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



| Product characteristics                  |       |                                              |
|------------------------------------------|-------|----------------------------------------------|
| Number of inputs and outputs             |       | Number of analogue outputs: 1                |
| Measuring range                          | [psi] | 0...100                                      |
| 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                   | [psi] | 2900                                         |
| Pressure rating                          | [psi] | 250                                          |
| Note on pressure rating                  |       | static                                       |
| Vacuum resistance                        | [psi] | -14.5                                        |
| 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                              |



## Pressure transmitter

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|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| Number of analogue outputs   | 1                                                                                 |
| Analogue current output [mA] | 4...20                                                                            |
| Max. load [Ω]                | ( $U_b - 8,5 \text{ V}$ ) / 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 [psi] | 0...100 |
|-----------------------|---------|

## Accuracy / deviations

|                                                                    |                                                                                                      |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Repeatability [% of the span]                                      | $< \pm 0,05$ ; (with temperature fluctuations $< 10 \text{ K}$ )                                     |
| Characteristics deviation [% of the span]                          | $< \pm 0,5$ ; (incl. drift when overtightened, zero point and span error, non-linearity, hysteresis) |
| Linearity deviation [% of the span]                                | $< \pm 0,1$ (BFSL) / $< \pm 0,2$ (LS)                                                                |
| Hysteresis deviation [% of the span]                               | $< \pm 0,2$                                                                                          |
| Long-term stability [% of the span]                                | $< \pm 0,1$ ; (per 6 months)                                                                         |
| Temperature coefficient zero point and span [% of the span / 10 K] | $< 0,1$ ( $-25...90 \text{ °C}$ ) / $< 0,2$ ( $-40...-25 \text{ °C}$ )                               |

## 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                     | 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)                                                                    |

## Remarks

|         |                                                           |
|---------|-----------------------------------------------------------|
| Remarks | BFSL = Best Fit Straight Line<br>LS = limit value setting |
|---------|-----------------------------------------------------------|

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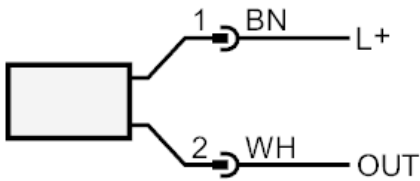
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Connector: 1 x M12; coding: A



### Connection



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