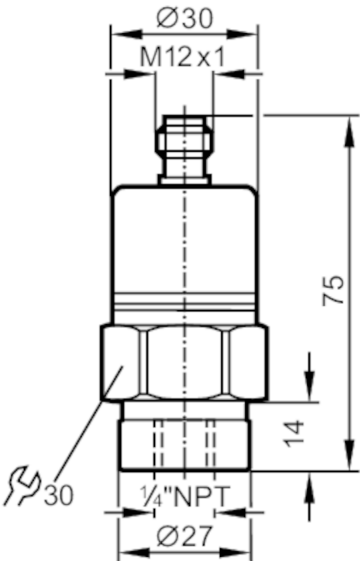




Pressure transmitter with ceramic measuring cell

PA-010-RBN14-A-ZVG/US/ IV



| Product characteristics         |                                              |             |              |           |
|---------------------------------|----------------------------------------------|-------------|--------------|-----------|
| Number of inputs and outputs    | Number of analogue outputs: 1                |             |              |           |
| Measuring range                 | 0...10 bar                                   | 0...145 psi | 0...1000 kPa | 0...1 MPa |
| Process connection              | threaded connection 1/4" NPT internal thread |             |              |           |
| Application                     |                                              |             |              |           |
| Special feature                 | Gold-plated contacts                         |             |              |           |
| Application                     | for industrial applications                  |             |              |           |
| Media                           | liquids and gases                            |             |              |           |
| Medium temperature [°C]         | -25...90; (on request: -40...90 °C)          |             |              |           |
| Min. bursting pressure          | 150 bar                                      | 2175 psi    | 15 MPa       |           |
| Pressure rating                 | 75 bar                                       | 1088 psi    | 7.5 MPa      |           |
| Type of pressure                | relative pressure                            |             |              |           |
| Electrical data                 |                                              |             |              |           |
| Operating voltage [V]           | 9.6...32 DC                                  |             |              |           |
| 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                                            |             |              |           |
| Output signal                   | analogue signal                              |             |              |           |
| Number of analogue outputs      | 1                                            |             |              |           |
| Analogue current output [mA]    | 4...20                                       |             |              |           |



## Pressure transmitter with ceramic measuring cell

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|                                    |                                                     |                                                                                           |             |                   |           |
|------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------|-------------|-------------------|-----------|
| Max. load                          | [Q]                                                 | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                    |             |                   |           |
| Overload protection                |                                                     | yes                                                                                       |             |                   |           |
| Measuring/setting range            |                                                     |                                                                                           |             |                   |           |
| Measuring range                    |                                                     | 0...10 bar                                                                                | 0...145 psi | 0...1000 kPa      | 0...1 MPa |
| Accuracy / deviations              |                                                     |                                                                                           |             |                   |           |
| Repeatability                      | [X21]                                               | < 0,1; (with temperature fluctuations < 10 K)                                             |             |                   |           |
| Characteristics deviation          | [X21]                                               | < ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |             |                   |           |
| Long-term stability                | [X21]                                               | < ± 0,05; (per 6 months)                                                                  |             |                   |           |
| Temperature coefficient zero point | [X22]                                               | 0,1; (0...80 °C)                                                                          |             |                   |           |
| Temperature coefficient span       | [X22]                                               | 0,2; (0...80 °C)                                                                          |             |                   |           |
| Response times                     |                                                     |                                                                                           |             |                   |           |
| Step response time analogue output | [ms]                                                | 3                                                                                         |             |                   |           |
| Operating conditions               |                                                     |                                                                                           |             |                   |           |
| Ambient temperature                | [°C]                                                | -25...80                                                                                  |             |                   |           |
| Storage temperature                | [°C]                                                | -40...100                                                                                 |             |                   |           |
| Protection                         |                                                     | IP 65                                                                                     |             |                   |           |
| Tests / approvals                  |                                                     |                                                                                           |             |                   |           |
| EMC                                | EN 61000-4-2 ESD                                    | 4 kV CD / 8 kV AD                                                                         |             |                   |           |
|                                    | EN 61000-4-3 HF radiated                            | 30 V/m                                                                                    |             |                   |           |
|                                    | EN 61000-4-4 Burst                                  | 2 kV                                                                                      |             |                   |           |
|                                    | EN 61000-4-6 HF conducted radiation of interference | 10 V                                                                                      |             |                   |           |
|                                    |                                                     | according to the automotive directive 2004/104/EC                                         |             |                   |           |
|                                    | CISPR 25 immunity                                   | according to the automotive directive 2004/104/EC                                         |             |                   |           |
|                                    | ISO 11452-2 HF radiated                             | 100 V/m                                                                                   |             |                   |           |
|                                    | ISO 7637-2 pulse                                    | severity level 4                                                                          |             |                   |           |
| Shock resistance                   | DIN EN 60068-2-27                                   | 50 g (11 ms)                                                                              |             |                   |           |
|                                    | DIN EN 61373                                        | category 3                                                                                |             |                   |           |
| Vibration resistance               | DIN EN 60068-2-6                                    | 20 g (10...2000 Hz)                                                                       |             |                   |           |
|                                    | DIN EN 61373                                        | category 2                                                                                |             |                   |           |
| MTTF                               | [ANN]                                               | 506                                                                                       |             |                   |           |
| Pressure Equipment Directive       |                                                     | Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request     |             |                   |           |
| Railway applications               |                                                     | DIN EN 50155 / IEC 60571                                                                  |             | Klasse T3, C1, S1 |           |
| Mechanical data                    |                                                     |                                                                                           |             |                   |           |
| Weight                             | [g]                                                 | 224                                                                                       |             |                   |           |
| Materials                          |                                                     | stainless steel (1.4404 / 316L); FKM; PA; EPDM/X                                          |             |                   |           |
| Materials (wetted parts)           |                                                     | stainless steel (1.4305 / 303); ceramics; FKM                                             |             |                   |           |
| Min. pressure cycles               |                                                     | 100 million                                                                               |             |                   |           |
| Process connection                 |                                                     | threaded connection 1/4" NPT internal thread                                              |             |                   |           |
| Restrictor element integrated      |                                                     | no (can be retrofitted)                                                                   |             |                   |           |
| Remarks                            |                                                     |                                                                                           |             |                   |           |
| Pack quantity                      |                                                     | 1 pcs.                                                                                    |             |                   |           |

# PA3224



## Pressure transmitter with ceramic measuring cell

PA-010-RBN14-A-ZVG/US/ IV

### Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



### Connection

