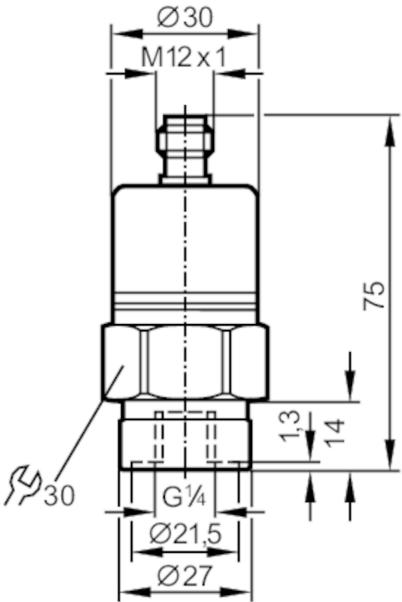




Pressure transmitter with ceramic measuring cell

PA-001-RBR14-A-ZVG/US/ IV



| Product characteristics      |                                           |                 |              |             |
|------------------------------|-------------------------------------------|-----------------|--------------|-------------|
| Number of inputs and outputs | Number of analogue outputs: 1             |                 |              |             |
| Measuring range              | 0...1 bar                                 | 0...1000 mbar   | 0...14.5 psi | 0...100 kPa |
| Process connection           | threaded connection G 1/4 internal thread |                 |              |             |
| Application                  |                                           |                 |              |             |
| Special feature              | Gold-plated contacts                      |                 |              |             |
| Application                  | for industrial applications               |                 |              |             |
| Media                        | liquids and gases                         |                 |              |             |
| Medium temperature           | -25...90; (on request: -40...90 °C)       |                 |              |             |
| Min. bursting pressure       | 30 bar                                    | 435 psi         | 3 MPa        |             |
| Pressure rating              | 10 bar                                    | 145 psi         | 1 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

PA-001-RBR14-A-ZVG/US/ IV

|                                    |                                                     |                                                                                           |               |                   |             |
|------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------|---------------|-------------------|-------------|
| Max. load                          | [Ω]                                                 | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                    |               |                   |             |
| Overload protection                |                                                     | yes                                                                                       |               |                   |             |
| Measuring/setting range            |                                                     |                                                                                           |               |                   |             |
| Measuring range                    |                                                     | 0...1 bar                                                                                 | 0...1000 mbar | 0...14.5 psi      | 0...100 kPa |
| Accuracy / deviations              |                                                     |                                                                                           |               |                   |             |
| Repeatability                      | [% of the span]                                     | < 0,1; (with temperature fluctuations < 10 K)                                             |               |                   |             |
| Characteristics deviation          | [% of the span]                                     | < ± 0,25 (BFSL) / < ± 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |               |                   |             |
| Long-term stability                | [% of the span]                                     | < ± 0,05; (per 6 months)                                                                  |               |                   |             |
| Temperature coefficient zero point | [% of the span / 10 K]                              | 0,1; (0...80 °C)                                                                          |               |                   |             |
| Temperature coefficient span       | [% of the span / 10 K]                              | 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                                                                                      |               |                   |             |
|                                    | 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                               | [years]                                             | 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]                                                 | 221.5                                                                                     |               |                   |             |
| Housing                            |                                                     | cylindrical                                                                               |               |                   |             |
| Dimensions                         | [mm]                                                | Ø 30 / L = 75                                                                             |               |                   |             |
| Materials                          |                                                     | stainless steel (316L/1.4404); FKM; PA; EPDM/X                                            |               |                   |             |
| Materials (wetted parts)           |                                                     | stainless steel (303/1.4305); ceramics; FKM                                               |               |                   |             |

PA3027



Pressure transmitter with ceramic measuring cell

PA-001-RBR14-A-ZVG/US/ IV

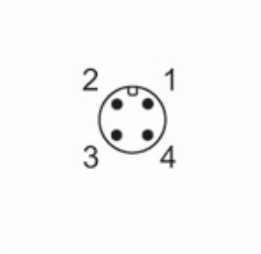
|                               |                                           |
|-------------------------------|-------------------------------------------|
| Min. pressure cycles          | 100 million                               |
| Process connection            | threaded connection G 1/4 internal thread |
| Restrictor element integrated | no (can be retrofitted)                   |

Remarks

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

Electrical connection

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



Connection

