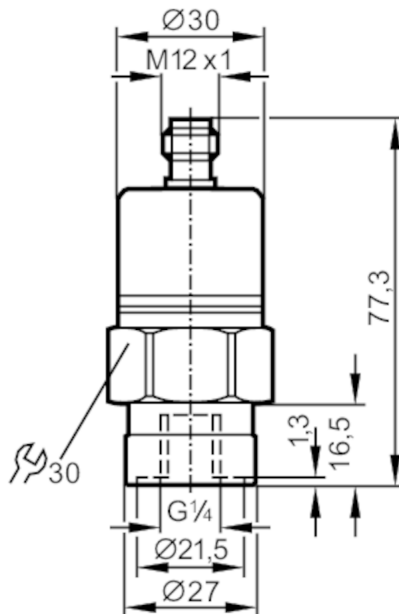


# PA9060



## Pressure transmitter with ceramic measuring cell

PA-600-SBR14-B-DVG/US/V



| Product characteristics         |                                                    |              |            |
|---------------------------------|----------------------------------------------------|--------------|------------|
| Number of inputs and outputs    | Number of analogue outputs: 1                      |              |            |
| Measuring range                 | 0...600 bar                                        | 0...8700 psi | 0...60 MPa |
| Process connection              | threaded connection G 1/4 internal thread          |              |            |
| Application                     |                                                    |              |            |
| Special feature                 | Gold-plated contacts                               |              |            |
| Application                     | for industrial applications                        |              |            |
| Media                           | liquids and gases                                  |              |            |
| Conditionally suitable for      | use in gases at pressures > 25 bar only on request |              |            |
| Medium temperature [°C]         | -25...90; (on request: -40...90 °C)                |              |            |
| Min. bursting pressure          | 1200 bar                                           | 17400 psi    | 120 MPa    |
| Pressure rating                 | 800 bar                                            | 11600 psi    | 80 MPa     |
| Type of pressure                | relative pressure                                  |              |            |
| Electrical data                 |                                                    |              |            |
| Operating voltage [V]           | 16...32 DC                                         |              |            |
| Current consumption [mA]        | < 18                                               |              |            |
| 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                                    |              |            |



## Pressure transmitter with ceramic measuring cell

PA-600-SBR14-B-DVG/US/V

|                                                           |                                                                                       |                                                                                                   |              |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|
| Number of analogue outputs                                |                                                                                       | 1                                                                                                 |              |
| Analogue voltage output [V]                               |                                                                                       | 0...10                                                                                            |              |
| Min. load resistance [ $\Omega$ ]                         |                                                                                       | 2000                                                                                              |              |
| Overload protection                                       |                                                                                       | yes                                                                                               |              |
| Measuring/setting range                                   |                                                                                       |                                                                                                   |              |
| Measuring range                                           |                                                                                       | 0...600 bar                                                                                       | 0...8700 psi |
|                                                           |                                                                                       |                                                                                                   | 0...60 MPa   |
| Accuracy / deviations                                     |                                                                                       |                                                                                                   |              |
| Repeatability [% of the span]                             |                                                                                       | < 0,1; (with temperature fluctuations < 10 K)                                                     |              |
| Characteristics deviation [% of the span]                 |                                                                                       | < $\pm$ 0,25 (BFSL) / < $\pm$ 0,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting) |              |
| Hysteresis deviation [% of the span]                      |                                                                                       | $\pm$ 1                                                                                           |              |
| Long-term stability [% of the span]                       |                                                                                       | < $\pm$ 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 68; IP 69K                                                                                     |              |
| 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                                                             | 10 V                                                                                              |              |
|                                                           | radiation of interference                                                             | 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 [years]                                              | 478                                                                                   |                                                                                                   |              |
| 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]                                                | 232                                                                                   |                                                                                                   |              |

# PA9060



## Pressure transmitter with ceramic measuring cell

PA-600-SBR14-B-DVG/US/V

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Materials                     | stainless steel (316L/1.4404); FKM; PA; EPDM/X |
| Materials (wetted parts)      | stainless steel (316L/1.4404); ceramics; FKM   |
| Min. pressure cycles          | 100 million                                    |
| Process connection            | threaded connection G 1/4 internal thread      |
| Restrictor element integrated | yes                                            |

### Remarks

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

### Electrical connection

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



### Connection

