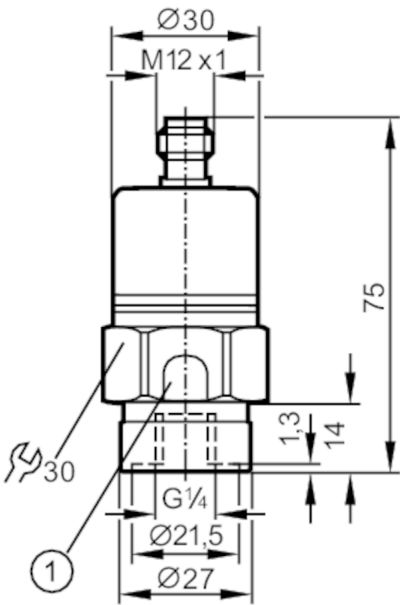




Pressure transmitter with ceramic measuring cell

PA-400-SBR14-A-ZVG/US/ IV



- 1 pressure relief mechanism  
No mechanical force must be exerted on the pressure relief mechanism.



| Product characteristics      |                                                    |                 |            |
|------------------------------|----------------------------------------------------|-----------------|------------|
| Number of inputs and outputs | Number of analogue outputs: 1                      |                 |            |
| Measuring range              | 0...400 bar                                        | 0...5800 psi    | 0...40 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       | 1000 bar                                           | 14500 psi       | 100 MPa    |
| Pressure rating              | 600 bar                                            | 8700 psi        | 60 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                                    |                 |            |



## Pressure transmitter with ceramic measuring cell

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|                                                           |                                                                                                   |                                                   |            |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------|------------|
| Number of analogue outputs                                | 1                                                                                                 |                                                   |            |
| Analogue current output [mA]                              | 4...20                                                                                            |                                                   |            |
| Max. load [ $\Omega$ ]                                    | 720; (Ub = 24 V; (Ub - 9,6 V) / 20 mA)                                                            |                                                   |            |
| Overload protection                                       | yes                                                                                               |                                                   |            |
| Measuring/setting range                                   |                                                                                                   |                                                   |            |
| Measuring range                                           | 0...400 bar                                                                                       | 0...5800 psi                                      | 0...40 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) |                                                   |            |
| 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]                                              | 555                                                                                               |                                                   |            |
| 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]                                                | 222.5                                                                                             |                                                   |            |
| Housing                                                   | cylindrical                                                                                       |                                                   |            |
| Dimensions [mm]                                           | $\varnothing$ 30 / L = 75                                                                         |                                                   |            |

# PA3020



## Pressure transmitter with ceramic measuring cell

PA-400-SBR14-A-ZVG/US/ IV

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Materials                     | stainless steel (316L/1.4404); FKM; PA; EPDM/X |
| Materials (wetted parts)      | stainless steel (303/1.4305); 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

