

PM2057



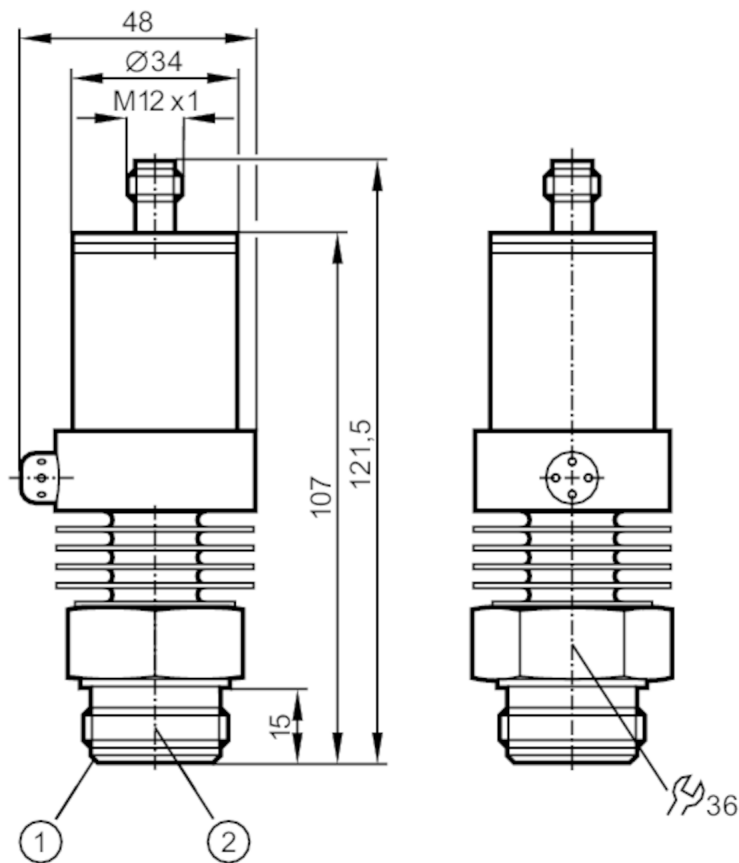
Flush pressure transmitter

PM-001BRES30-E-ZVG/US/ /P

Article to be discontinued  
Discontinuation date: 03/31/2024

Alternative articles: PI1009 or PM1707  
When selecting an alternative article and accessories please note that technical data may differ!

Please do not use for new projects.  
no more adapters available as accessories



- 1 Aseptoflex sealing edge
- 2 Aseptoflex thread



Product characteristics

|                              |                                                           |                 |                 |              |
|------------------------------|-----------------------------------------------------------|-----------------|-----------------|--------------|
| Number of inputs and outputs | Number of analog outputs: 1                               |                 |                 |              |
| Measuring range              | -0.05...1 bar                                             | -50...1000 mbar | -0.7...14.5 psi | -5...100 kPa |
| Process connection           | threaded connection Aseptoflex external thread Aseptoflex |                 |                 |              |

Application

|                         |                                                                       |         |          |
|-------------------------|-----------------------------------------------------------------------|---------|----------|
| System                  | gold-plated contacts                                                  |         |          |
| Application             | flush mountable for the food and beverage industry                    |         |          |
| Media                   | viscous media and liquids with suspended particles; liquids and gases |         |          |
| Medium temperature [°C] | -25...125; (145 max. 1h)                                              |         |          |
| Min. bursting pressure  | 30000 mbar                                                            | 450 psi | 3000 kPa |
| Pressure rating         | 10000 mbar                                                            | 145 psi | 1000 kPa |



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|                                                           |                                                                                                                      |                 |                 |                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|----------------|
| Type of pressure                                          | relative pressure                                                                                                    |                 |                 |                |
| No dead space                                             | yes                                                                                                                  |                 |                 |                |
| Electrical data                                           |                                                                                                                      |                 |                 |                |
| Operating voltage [V]                                     | 14...30 DC                                                                                                           |                 |                 |                |
| Min. insulation resistance [MΩ]                           | 100; (500 V DC)                                                                                                      |                 |                 |                |
| Protection class                                          | III                                                                                                                  |                 |                 |                |
| Reverse polarity protection                               | yes                                                                                                                  |                 |                 |                |
| Measuring principle                                       | hydrostatic                                                                                                          |                 |                 |                |
| Inputs / outputs                                          |                                                                                                                      |                 |                 |                |
| Number of inputs and outputs                              | Number of analog outputs: 1                                                                                          |                 |                 |                |
| Outputs                                                   |                                                                                                                      |                 |                 |                |
| Total number of outputs                                   | 1                                                                                                                    |                 |                 |                |
| Output signal                                             | analog signal                                                                                                        |                 |                 |                |
| Number of analog outputs                                  | 1                                                                                                                    |                 |                 |                |
| Analog current output [mA]                                | 4...20                                                                                                               |                 |                 |                |
| Max. load [Ω]                                             | 550; (Ub = 24 V; (Ub - 13 V) / 20 mA)                                                                                |                 |                 |                |
| Overload protection                                       | yes                                                                                                                  |                 |                 |                |
| Measuring/setting range                                   |                                                                                                                      |                 |                 |                |
| Measuring range                                           | -0.05...1 bar                                                                                                        | -50...1000 mbar | -0.7...14.5 psi | -5...100 kPa   |
| Analog start point                                        | -50...749 mbar                                                                                                       | -0.7...10.9 psi |                 | -5...74.9 kPa  |
| Analog end point                                          | 200...999 mbar                                                                                                       | 2.9...14.5 psi  |                 | 20...99.9 kPa  |
| In steps of                                               | 1 mbar                                                                                                               | 0.1 psi         |                 | 0.1 kPa        |
| Factory setting                                           |                                                                                                                      | ASP = 0 mbar    |                 | AEP = 999 mbar |
| Accuracy / deviations                                     |                                                                                                                      |                 |                 |                |
| Repeatability [% of the span]                             | < ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)                                                       |                 |                 |                |
| Characteristics deviation [% of the span]                 | < ± 0,6; (Turn down 1:1 , linearity, incl. hysteresis and repeatability , limit value setting to DIN EN IEC 62828-1) |                 |                 |                |
| Linearity deviation [% of the span]                       | < ± 0,5; (Turn down 1:1)                                                                                             |                 |                 |                |
| Hysteresis deviation [% of the span]                      | < ± 0,1; (Turn down 1:1)                                                                                             |                 |                 |                |
| Long-term stability [% of the span]                       | < ± 0,1; (Turn down 1:1; per year)                                                                                   |                 |                 |                |
| 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)                                                                                                 |                 |                 |                |
| Reaction times                                            |                                                                                                                      |                 |                 |                |
| Max. response time analog output [ms]                     | 3                                                                                                                    |                 |                 |                |
| Software / programming                                    |                                                                                                                      |                 |                 |                |
| Parameter setting options                                 | Zero point; span                                                                                                     |                 |                 |                |
| Interfaces                                                |                                                                                                                      |                 |                 |                |
| Communication interface                                   | EPS                                                                                                                  |                 |                 |                |

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### Operating conditions

|                     |      |           |
|---------------------|------|-----------|
| Ambient temperature | [°C] | -25...80  |
| Storage temperature | [°C] | -40...100 |
| Protection          |      | IP 67     |

### Tests / approvals

|                      |                           |                         |
|----------------------|---------------------------|-------------------------|
| EMC                  | EN 61000-4-2 ESD          | 4 kV CD / 8 kV AD       |
|                      | EN 61000-4-3 HF radiated  | 1 GHz / Accuracy < 2,5% |
|                      | EN 61000-4-4 Burst        | 2 kV                    |
|                      | EN 61000-4-6 HF conducted | 10 V                    |
| Shock resistance     | DIN IEC 68-2-27           | 50 g (11 ms)            |
| Vibration resistance | DIN IEC 68-2-6            | 20 g (10...2000 Hz)     |
| MTTF                 | [years]                   | 271                     |

### Mechanical data

|                          |     |                                                                                                                                    |
|--------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------|
| Weight                   | [g] | 471.5                                                                                                                              |
| Material                 |     | stainless steel (1.4404 / 316L); PEI; FKM                                                                                          |
| Materials (wetted parts) |     | ceramics (99.9 % Al <sub>2</sub> O <sub>3</sub> ); stainless steel (1.4404 / 316L); surface characteristics: Ra < 0,4 / Rz 4; PTFE |
| Min. pressure cycles     |     | 100 million                                                                                                                        |
| Process connection       |     | threaded connection Aseptoflex external thread Aseptoflex                                                                          |

### Remarks

|               |                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------|
| Remarks       | The 3-A qualification is only valid if adapters with 3-A qualification are used for installation. |
| Notes         | Please do not use for new projects.; no more adapters available as accessories                    |
| Pack quantity | 1 pcs.                                                                                            |

### Electrical connection

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



### Connection

