



## Pressure sensors Pressure transmitter

PBT-RM040SN1SS0ALA0Z



**Model Name** > [PBT-RM040SN1SS0ALA0Z](#)  
**Part No.** > [6041207](#)



#### At a glance

- Gauge pressure measurement ranges from 0 ... 0.1 MPa up to 0 ... 60 MPa
- A large variety of available process connections
- No moving parts: No mechanical wear, fatigue-proof, maintenance-free
- Circularly welded, hermetically sealed stainless steel membrane
- Output signal 4 ... 20 mA, 0 ... 5 V or 0 ... 10 V
- Electrical connection M12x1, L-connector acc. to DIN 175301-803 A or flying leads

#### Your benefits

- Compact size takes up less space
- Simple and cost-saving installation
- Available in a wide selection of configurations, enabling a perfect match to individual customer requirements
- Robust design enables higher reliability
- Excellent price-performance ratio



#### Features

|                      |                  |
|----------------------|------------------|
| Pressure type:       | Gauge pressure   |
| Measuring range:     | 0 MPa ... 40 MPa |
| Process temperature: | 0 °C ... 80 °C   |
| Rated temperature:   | 0 °C ... 80 °C   |
| CE-conformity:       | ✓                |
| Output signal:       | 4...20 mA        |

#### Performance

|                |                                       |
|----------------|---------------------------------------|
| Accuracy:      | ≤ +/- 1 % (of span)                   |
| Non-linearity: | 0.5 % (Best Fit Straight Line (BFSL)) |

#### Mechanics/electronics

|                     |                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------|
| Process connection: | 1/4" NPT                                                                                                   |
| Wetted parts:       | Pressure Connection: 316 L, Pressure sensor: 316 L (for measurement ranges from 0 ... 10 bar rel: 13-8 PH) |
| Seal:               | Without seal                                                                                               |
| Pressure port:      | Standard                                                                                                   |
| Housing material:   | 316 L                                                                                                      |
| Enclosure rating:   | IP 65                                                                                                      |
| Connection type:    | L-connector DIN EN 175301-803 A, IP 65                                                                     |

|                       |                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage:       | 8 V DC ... 30 V DC                                                                                                                                                                        |
| Electrical safety:    | Short-circuit protection: QA towards M, Reference conditions: According to IEC 61298-1, Overvoltage protection 32 VDC, 36 VDC with 4 ... 20 mA, Reverse polarity protection: L+ towards M |
| Protection class III: | ✓                                                                                                                                                                                         |

#### Ambient data

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|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| Ambient temperature: | 0 °C ... 80 °C                                              |
| Shock load:          | 500 g according to IEC 60068-2-27 (mechanical shock)        |
| Vibration load:      | 10 g according to IEC 60068-2-6 (vibration under resonance) |

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