



## Temperature sensors

TBT-1PAP40253GZ



**Model Name** > [TBT-1PAP40253GZ](#)  
**Part No.** > [6043083](#)



### At a glance

- Pt100 element, accuracy class A according to IEC 60751
- Measuring ranges -50 °C ... 150 °C and -50 °C ... 250 °C
- Wetted parts made from corrosion resistant stainless steel 316L
- Various mechanical adaptations and insertion lengths
- Output signal Pt100 (4-wire)
- Cable gland M16x1.5

### Your benefits

- Reliable operation through rugged design and high-quality materials
- Good long-term stability, accuracy and linearity
- Quick and safe installation
- Convenient system integration even in narrow installation spaces
- Optimal solutions for individual requirements



### Features

|                  |                   |
|------------------|-------------------|
| Measuring range: | -50 °C ... 150 °C |
| Sensor element:  | Pt100             |
| Output signal:   | Pt100, 4-wire     |

### Performance

|                             |                                |
|-----------------------------|--------------------------------|
| Accuracy of sensor element: | Class A according to IEC 60751 |
|-----------------------------|--------------------------------|

### Mechanics/electronics

|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| Process connection:                                    | Compression fitting 1/4" NPT, PTFE ferrule                      |
| Insertion length/diameter of probe:                    | 25 mm/3 mm                                                      |
| Housing material:                                      | Stainless steel 1.4571                                          |
| Wetted parts:                                          | Stainless steel 1.4571                                          |
| Electrical connection/enclosure rating <sup>1)</sup> : | Cable gland M16 x 1.5, IP 65                                    |
| Measuring current:                                     | 0.3 mA ... 1 mA                                                 |
| Electrical safety:                                     | Protection class: III, dielectric strength: 100 V               |
| Weight:                                                | Ca. 155 g (depending on configuration)                          |
| Supply voltage:                                        | 10 V DC ... 35 V DC for variant with transmitter 4 mA ... 20 mA |
| Protection class III:                                  | ✓                                                               |
| CE-conformity:                                         | 2004/108/EC, EN 61326-2-3                                       |
| Pressure resistance:                                   | Max. 40 bar with supplied compression fitting with PTFE ferrule |

1) Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply while the pressure transmitter is connected with female connectors that provide the corresponding enclosure rating.

### Ambient data

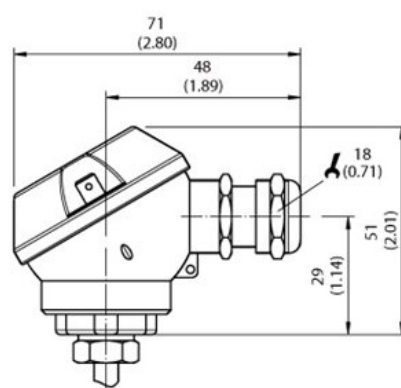
|                                              |                   |
|----------------------------------------------|-------------------|
| Ambient temperature:                         | -40 °C ... 125 °C |
| Storage and transport temperature:           | -40 °C ... 60 °C  |
| Shock resistance according to IEC 60751:     | 500 g             |
| Vibration resistance according to IEC 60751: | 3 g               |

### Dimensional drawing housing

With cable gland IP 65



With cable gland IP 67



All dimensions in mm (inch)

Dimensional drawing process connection



Connection type



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