



Temperature sensors

TBT-1PBS11006GZ



Model Name > [TBT-1PBS11006GZ](#)
Part No. > [6043125](#)



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 ... 250 °C
Sensor element:	Pt100
Output signal:	Pt100, 4-wire

Performance

Accuracy of sensor element:	Class A according to IEC 60751
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Mechanics/electronics

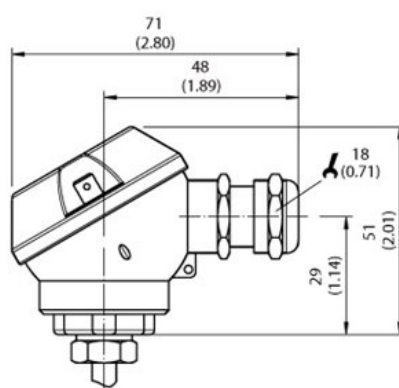
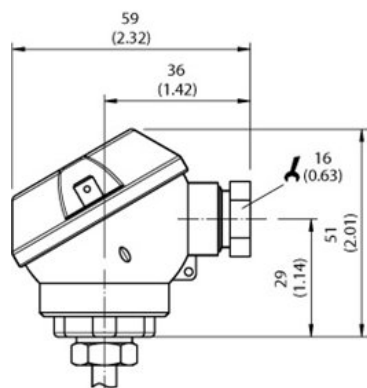
Process connection:	Compression fitting G 1/4 B, CrNi stainless steel ferrule
Insertion length/diameter of probe:	100 mm / 6 mm
Housing material:	Stainless steel 1.4571
Wetted parts:	Stainless steel 1.4571
Electrical connection/enclosure rating ¹⁾ :	Cable gland M16 x 1.5, IP 65
Measuring current:	0.3 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. 100 bar with supplied compression fitting with stainless steel ferrule

1)

Ambient data

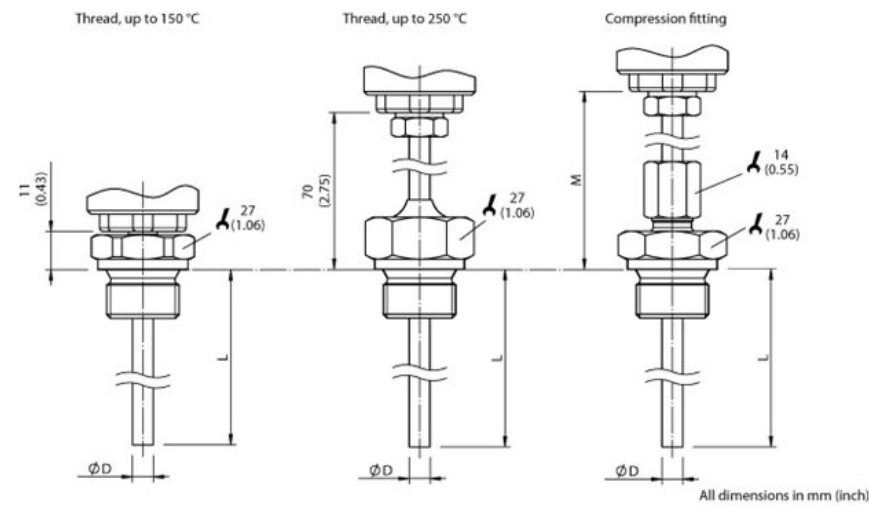
Ambient temperature:	-40 °C ... 125 °C
Storage and transport temperature:	-40 °C ... 60 °C
Shock resistance according to IEC 60751:	500 g
Vibration resistance according to IEC 60751:	3 g

Dimensional drawing housing

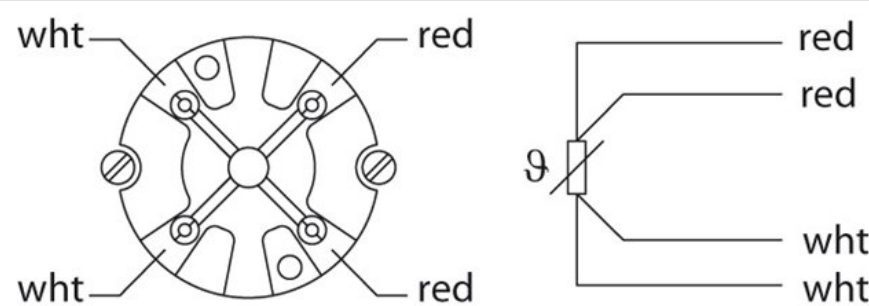


All dimensions in mm (inch)

Dimensional drawing process connection



Connection type



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