

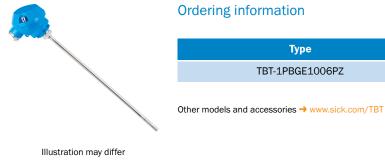
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RESISTANCE THERMOMETER



TBT-1PBGE1006PZ | TBT

RESISTANCE THERMOMETER



CE

Detailed technical data

| Features | |
|------------------------------------|---|
| Measuring range | -50 °C +250 °C |
| Sensor element | Pt100 |
| Output signal | Pt100, 4-wire |
| Mechanics/electronics | |
| Process connection | Thread G ½ B |
| Insertion length/diameter of probe | 100 mm / 6 mm |
| Wetted parts | Stainless steel 1.4571 |
| Pressure resistance | Max. 120 bar |
| Housing material | Aluminum |
| Connection type | Cable gland M16 x 1.5 ¹⁾ |
| Enclosure rating | IP67 ²⁾ |
| Measuring current | 0.3 mA 1 mA |
| Electrical safety | Protection class: III, dielectric strength: 100 V |

Туре

TBT-1PBGE1006PZ

| Protection class III | \checkmark |
|----------------------|--|
| CE-conformity | 2004/108/EC, EN 61326-2-3 |
| RoHS certificate | \checkmark |
| Weight | Ca. 155 g (depending on configuration) |
| Initialization time | < 1 ms |

¹⁾ The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating. $^{\rm 2)}\,{\rm IP}$ enclosure rating as per IEC 60529.

Performance

| Accuracy of sensor element | Class A according to IEC 60751 |
|----------------------------|---|
| Transmitter accuracy | $\leq \pm 0.1$ % of span |
| Transmitter linearity | ≤ 0.1 % of span |
| Response time | Response time t_{50} : \leq 5.8 s ¹⁾ Response time t_{90} : \leq 15.5 s ¹⁾ |

 $^{\mbox{1})}$ Depending on sensor configuration, according to IEC 60751.

Part no.

6043140

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Ambient data

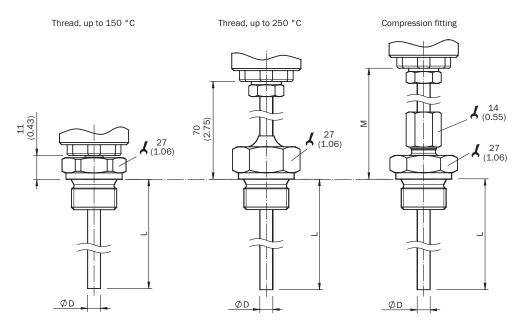
| Ambient temperature | -40 °C +125 °C |
|---|----------------|
| Storage and transport temperature | -40 °C +60 °C |
| Shock resistance according to IEC 60751 | 500 g |
| Vibration resistance according to IEC 60751 | 3 g |

Classifications

| eCl@ss 5.0 | 27200208 |
|----------------|----------|
| eCl@ss 5.1.4 | 27200208 |
| eCl@ss 6.0 | 27200208 |
| eCl@ss 6.2 | 27200208 |
| eCl@ss 7.0 | 27200208 |
| eCl@ss 8.0 | 27200208 |
| eCl@ss 8.1 | 27200208 |
| eCl@ss 9.0 | 27200208 |
| eCl@ss 10.0 | 27200208 |
| eCl@ss 11.0 | 27200208 |
| eCl@ss 12.0 | 27200208 |
| ETIM 5.0 | EC002994 |
| ETIM 6.0 | EC002994 |
| ETIM 7.0 | EC002994 |
| ETIM 8.0 | EC002994 |
| UNSPSC 16.0901 | 41112211 |

Dimensional drawing (Dimensions in mm (inch))

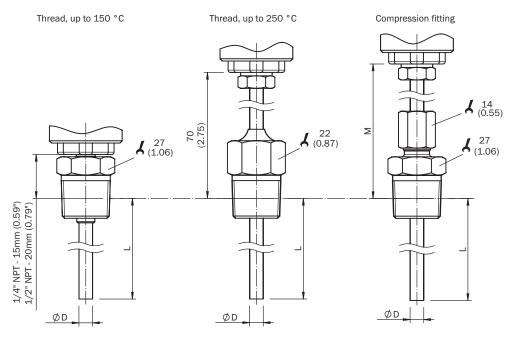
Dimensional drawing: zylindrical threads



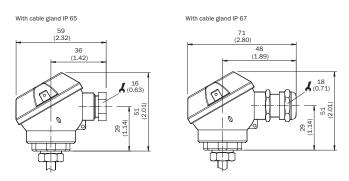
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Dimensional drawing: conical threads

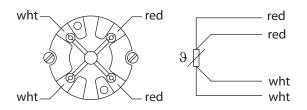


Dimensional drawing: housing, without process connection



Connection type

Cable entry M16 x 1.5, cable cross-section up to 0.75 mm2, output signal Pt100



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