

TBT-1PAG11006GZ

TBT

TEMPERATURE SENSORS





Ordering information

| Туре | Part no. |
|-----------------|----------|
| TBT-1PAG11006GZ | 6043016 |

Other models and accessories → www.sick.com/TBT

Illustration may differ



Detailed technical data

Features

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

Mechanics/electronics

| Process connection | Thread G ¼ 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 | IP65 ²⁾ |
| Measuring current | 0.3 mA 1 mA |
| Electrical safety | Protection class: III, dielectric strength: 100 V |
| Protection class III | ✓ |
| CE-conformity | 2004/108/EC, EN 61326-2-3 |
| RoHS certificate | ✓ |
| 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.

Performance

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

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

 $^{^{2)}\,\}mbox{IP}$ enclosure rating as per IEC 60529.

Ambient data

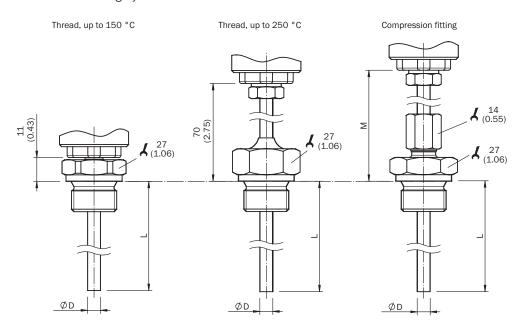
| Ambient temperature | -40 °C +125 °C |
|---|----------------|
| Storage and transport temperature | -40 °C +60 °C |
| Shock resistance according to IEC 60751 | 500 g |
| Vibration resistance according to IEC 60751 | 3 g |

Classifications

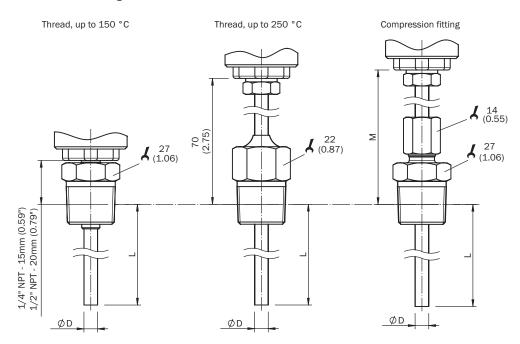
| ECLASS 5.0 | 27200208 |
|----------------|----------|
| ECLASS 5.1.4 | 27200208 |
| ECLASS 6.0 | 27200208 |
| ECLASS 6.2 | 27200208 |
| ECLASS 7.0 | 27200208 |
| ECLASS 8.0 | 27200208 |
| ECLASS 8.1 | 27200208 |
| ECLASS 9.0 | 27200208 |
| ECLASS 10.0 | 27200208 |
| ECLASS 11.0 | 27200208 |
| ECLASS 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))

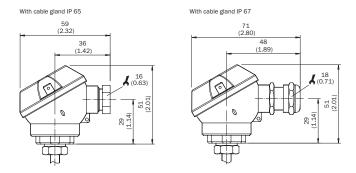
Dimensional drawing: zylindrical threads



Dimensional drawing: conical threads

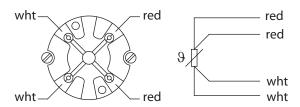


Dimensional drawing: housing, without process connection



Connection type

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



SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

