

TBT-1PASE0503GZ

TBT

TEMPERATURE SENSORS





Ordering information

Туре	Part no.
TBT-1PASE0503GZ	6043033

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

Illustration may differ



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
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.

Mechanics/electronics

Process connection	Compression fitting G $1/2$ B, stainless steel ferrule
Insertion length/diameter of probe	50 mm / 3 mm
Wetted parts	Stainless steel 1.4571
Pressure resistance	Max. 100 bar with supplied compression fitting with stainless steel ferrule
Housing material	Aluminum
Electrical connection	Cable gland M16 x 1.5, IP65 ¹⁾
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⁾ IP enclosure rating as per IEC 60529. The enclosure rating classes specified only apply while the device is connected with male cable connectors of the corresponding enclosure rating.

Ambient data

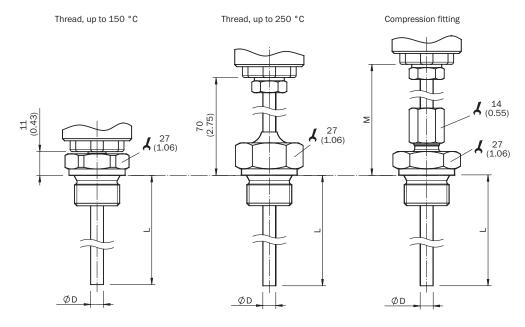
Ambient temperature	-40 °C +125 °C
Storage and transport temperature	-40 °C +60 °C
Shock resistance according to IEC 60751	500 g
Vibration resistance according to IEC 60751	3 g

Classifications

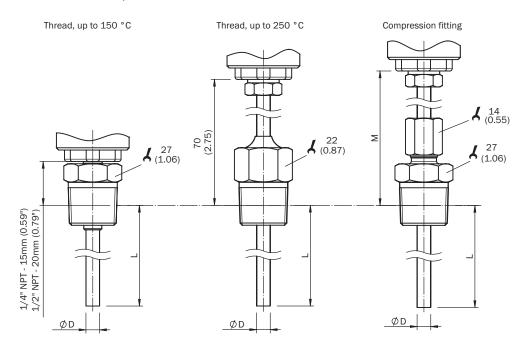
ECI@ss 5.0	27200208
ECI@ss 5.1.4	27200208
ECI@ss 6.0	27200208
ECI@ss 6.2	27200208
ECI@ss 7.0	27200208
ECI@ss 8.0	27200208
ECI@ss 8.1	27200208
ECI@ss 9.0	27200208
ETIM 5.0	EC001446
ETIM 6.0	EC001446
UNSPSC 16.0901	41112211

Dimensional drawing (Dimensions in mm (inch))

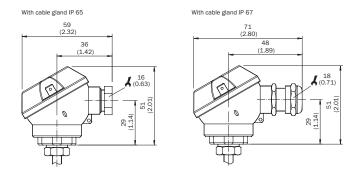
Process connections, cylindrical threads



Process connections, conical threads

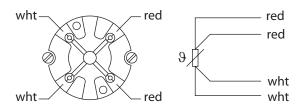


Housing, without process connection



Connection type

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



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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.

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