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DATA SHEET

TSP-1QAG10506MZ

TSP
Temperature sensors

SICK
Sensor Intelligence



Illustration may differ

TEMPERATURE SENSORS

TSP-1QAG10506MZ

ORDERING INFORMATION

Type	part no.
TSP-1QAG10506MZ	6051808

Further device versions and accessories at www.sick.com/TSP

DETAILED TECHNICAL DATA

FEATURES

Measuring range	–30 °C ... +130 °C
Output signal	Pt100, 3-wire

MECHANICS/ELECTRONICS

Communication interface	-
Process connection	Thread G ¼ B
Seal	Without seal
Insertion length/diameter of probe	50 mm / 6 mm
Wetted parts	Stainless steel 1,4305
Maximum process pressure	≤ 120 bar [1]
Housing material	Stainless steel 1,4305
Connection type	M12 round connector x 1, 4-pin [2]
Enclosure rating	IP67 [3]
Measuring current	0.3 mA ... 1 mA
Electrical safety	Protection class: III, dielectric strength: 500 V AC
Weight	Approx. 30 g (depending on configuration)

[1] Pressure resistance at room temperature.

[2] The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

[3] IP enclosure rating as per IEC 60529.

PERFORMANCE

Accuracy of sensor element	Class B according to IEC 60751
Response time	t_{50} ≤ 2.5 s [1]

[1] Depending on sensor configuration, according to IEC 60751.

	$t_{90} \leq 6$ s [1]

[1] Depending on sensor configuration, according to IEC 60751.

AMBIENT DATA

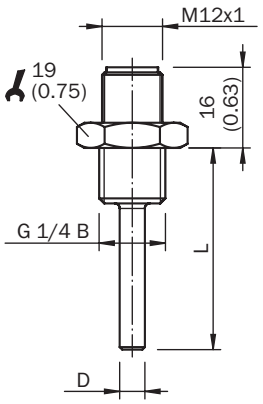
Ambient temperature	–40 °C ... +100 °C [1]
Storage and transport temperature	–40 °C ... +85 °C
Shock resistance	500 g (IEC 60751)
Vibration resistance according to IEC 60751	3 g

[1] Due to the short length, the temperature at the male connector may rise to impermissibly high values. This MUST be taken into account when configuring the measuring point and selecting a suitable connecting cable.

CERTIFICATES

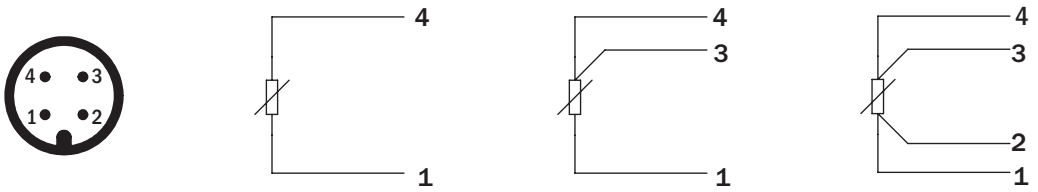
EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓

DIMENSIONAL DRAWING



Dimensions in mm (inch)

CONNECTION TYPE PLUG M12 X 1, OUTPUT SIGNAL PT100/PT1000



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6051808

SICK AG
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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