Online data sheet



TSP-1PAN40506MZ

TSP

TEMPERATURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	Part no.
TSP-1PAN40506MZ	6042952

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

Detailed technical data

Features

Measuring range	–30 °C +130 °C
Output signal	Pt100, 2-wire

Performance

Accuracy of sensor element	Class B according to IEC 60751
Response time	Response time t_{50}: ≤ 2.5 s [1)] Response time t_{90}: ≤ 6 s [1)]

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

Mechanics/electronics

Process connection	Thread ¼" NPT
Insertion length/diameter of probe	50 mm / 6 mm
Wetted parts	Stainless steel 1.4305
Housing material	Stainless steel 1.4305
Measuring current	0.3 mA ... 1 mA
Electrical safety	Protection class: III, dielectric strength: 500 V AC
RoHS certificate	✓
Weight	Approx. 30 g (depending on configuration)

Ambient data

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

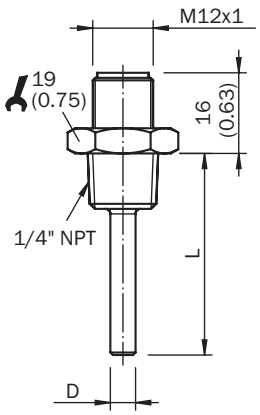
[1)] Due to the short length, the temperature at the male connector may rise to impermissibly high values. This MUST be taken into account when configuring the measuring point and selecting a suitable connecting cable.

Classifications

ECl@ss 5.0	27200208
ECl@ss 5.1.4	27200208
ECl@ss 6.0	27200208

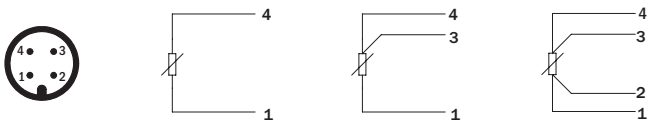
ECl@ss 6.2	27200208
ECl@ss 7.0	27200208
ECl@ss 8.0	27200208
ECl@ss 8.1	27200208
ECl@ss 9.0	27200208
ETIM 5.0	EC001446
ETIM 6.0	EC001446
UNSPSC 16.0901	41112211

Dimensional drawing (Dimensions in mm (inch))



Connection type

Plug M12 x 1, output signal Pt100/Pt1000



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