



# TCT-2PAGE0503MZ

TCT

TEMPERATURE SENSORS

**SICK**  
Sensor Intelligence.



Illustration may differ



## Ordering information

Type	Part no.
TCT-2PAGE0503MZ	6081737

Other models and accessories → [www.sick.com/TCT](http://www.sick.com/TCT)

## Detailed technical data

### Features

<b>Measuring range</b>	-50 °C ... +150 °C
<b>Sensor element</b>	Pt100
<b>Output signal</b>	Pt100, 4-wire

### Mechanics/electronics

<b>Process connection</b>	Thread G ½ B
<b>Insertion length/diameter of probe</b>	50 mm / 3 mm
<b>Wetted parts</b>	Stainless steel 1.4571
<b>Pressure resistance</b>	Max. 120 bar
<b>Housing material</b>	Stainless steel 1.4571
<b>Connection type</b>	M12 round connector x 1, 4-pin <sup>1)</sup>
<b>Enclosure rating</b>	IP67 <sup>2)</sup>
<b>Measuring current</b>	0.3 mA ... 1 mA
<b>Electrical safety</b>	Protection class: III, dielectric strength: 500 V
<b>Protection class III</b>	✓
<b>RoHS certificate</b>	✓
<b>Weight</b>	Ca. 145 g (depending on configuration)
<b>Initialization time</b>	< 10 ms

<sup>1)</sup> The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating.

<sup>2)</sup> IP enclosure rating as per IEC 60529.

### Performance

<b>Accuracy of sensor element</b>	Class A according to IEC 60751
<b>Transmitter accuracy</b>	≤ ± 1,0 % of span
<b>Transmitter linearity</b>	≤ 0.1 % of span
<b>Response time</b>	T <sub>50</sub> : ≤ 2.8 s <sup>1)</sup> t <sub>90</sub> ≤ 9,1 s <sup>1)</sup>

<sup>1)</sup> Depending on sensor configuration, according to IEC 60751.

Ambient data

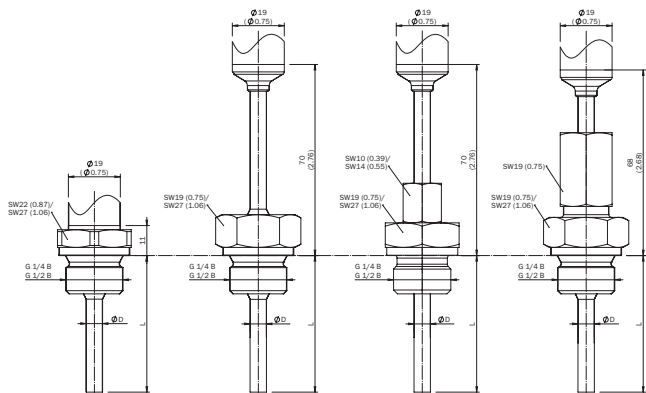
<b>Ambient temperature</b>	-40 °C ... +125 °C
<b>Storage and transport temperature</b>	-40 °C ... +85 °C
<b>Shock resistance according to IEC 60751</b>	500 g
<b>Vibration resistance according to IEC 60751</b>	3 g

Classifications

<b>ECLASS 5.0</b>	27200208
<b>ECLASS 5.1.4</b>	27200208
<b>ECLASS 6.0</b>	27200208
<b>ECLASS 6.2</b>	27200208
<b>ECLASS 7.0</b>	27200208
<b>ECLASS 8.0</b>	27200208
<b>ECLASS 8.1</b>	27200208
<b>ECLASS 9.0</b>	27200208
<b>ECLASS 10.0</b>	27200208
<b>ECLASS 11.0</b>	27200208
<b>ECLASS 12.0</b>	27200208
<b>ETIM 5.0</b>	EC002994
<b>ETIM 6.0</b>	EC002994
<b>ETIM 7.0</b>	EC002994
<b>ETIM 8.0</b>	EC002994
<b>UNSPSC 16.0901</b>	41112211

Dimensional drawing (Dimensions in mm (inch))

Dimensional drawing: cylindrical threads



Process connections, cylindrical thread

Threaded connection  
up to 150 °C

Threaded connection  
up to 250 °C

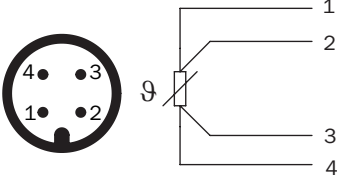
Threaded connection and  
clamping connection

Threaded connection and  
protective pipe with thread

TCT-2

Connection type

Round connector M12 x 1, 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](http://www.sick.com)