



**TEMPERATURE SENSORS** 



### THTL-1PAZZ0213MZ | THTL

**TEMPERATURE SENSORS** 



#### **Ordering information**

Туре	Part no.
THTL-1PAZZ0213MZ	6047815

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



#### Detailed technical data

#### Features

Measuring range	-50 °C +150 °C
Sensor element	Pt100, Pt1000 (for 4 mA 20 mA version)
Output signal	Pt100, 4-wire

#### Performance

Accuracy of sensor element	Class A according to IEC 60751 <sup>1)</sup>
Transmitter accuracy	± 0,25 K
Transmitter linearity	$\leq \pm 0.1$ % of span
Response time	$t50 \le 3,2 s$ $t_{90} \le 9,1 s^{-2}$

 $^{1)}$  Class B (measuring range –50  $\,^{\circ}$  C ... –30  $\,^{\circ}$  C).

 $^{\rm 2)}$  Depending on sensor configuration, according to IEC 60751.

#### Mechanics/electronics

Process connection	Spare sensor without process connection
Nominal width	DN 21.3
Wetted parts	Stainless steel 1.4435 / 316L, $R_a \leq 0.8 \ \mu m$
Pressure resistance	Max. 25 bar at room temperature
Housing material	Stainless steel (CrNi)
Electrical connection	Round connector M12 x 1, 4-pin, IP 67 and IP 69 $^{(1)}$
Measuring current	0.1 mA 1 mA
Electrical safety	Protection class: III, dielectric strength: 500 V AC
Protection class III	✓
RoHS certificate	✓
Initialization time	Max. 4 s

<sup>1)</sup> 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.

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#### Ambient data

Ambient temperature	-40 °C +85 °C
Storage and transport temperature	-40 °C +85 °C
Shock resistance	50 g, 6ms (according to IEC 60068-2-27)
Relative humidity	100 % <sup>1)</sup>

<sup>1)</sup>, Condensation allowed.

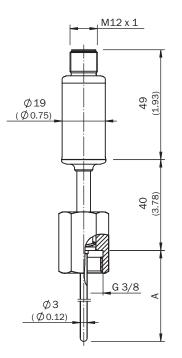
#### Classifications

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))

#### Measuring probe without protection tube

Pt100, 4 mA ... 20 mA



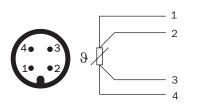
All dimensions in mm (inch)

### Application



#### Connection type

Round connector M12 x 1, output signal Pt100



#### **Recommended accessories**

Other models and accessories -> www.sick.com/THTL

	Brief description	Туре	Part no.	
Plug connec	Plug connectors and cables			
Vo	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382	
No	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-G02MC	6025900	
K	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866	
No	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-G05MC	6025901	
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-G10M	6010543	
No	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1204-G10MC	6025902	
K	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 15 m	DOL-1204-G15M	6010753	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383	
>	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 2 m	DOL-1204-W02MC	6025903	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867	
6	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 5 m	DOL-1204-W05MC	6025904	

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	Brief description	Туре	Part no.
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
>	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: drag chain use, PUR, halogen-free, unshielded, 10 m	DOL-1204-W10MC	6025905

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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



Online data sheet

