THTS-1PAC30256MZ

Sales

RESISTANCE THERMOMETER



RESISTANCE THERMOMETER



Ordering information

Туре	Part no.
THTS-1PAC30256MZ	6067145

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



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
Mechanics/electronics	

Ν

Process connection	Clamp (ISO 2852) DN 25, DN 33.7, DN 38
Insertion length/diameter of probe	25 mm / 6 mm
Wetted parts	Stainless steel 1.4435 / 316L, $R_a \le 0.8 \ \mu m$
Pressure resistance	Max. 16 bar at room temperature
Housing material	Stainless steel (CrNi)
Connection type	M12 round connector x 1, 4-pin ¹⁾
Enclosure rating	IP67 ²⁾ IP69 ²⁾
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

¹⁾ The enclosure rating classes specified only apply while the thermometer is connected with female connectors that provide the corresponding enclosure rating. $^{\rm 2)}$ IP enclosure rating as per IEC 60529.

Performance

Accuracy of sensor element	Class A according to IEC 60751 ¹⁾
Transmitter accuracy	± 0,25 K
Transmitter linearity	$\leq \pm 0.1$ % of span
Response time	$t_{50} \le 3.3 \text{ s}$ $t_{90} \le 9.7 \text{ s}^{-2)}$

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

²⁾ Depending on sensor configuration, according to IEC 60751.

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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 % ¹⁾

¹⁾, Condensation allowed.

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
eCl@ss 10.0	27200208
eCl@ss 11.0	27200208
eCl@ss 12.0	27200208
ETIM 5.0	EC002994
ETIM 6.0	EC002994
ETIM 7.0	EC002994
ETIM 8.0	EC002994
UNSPSC 16.0901	41112211

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Dimensional drawing (Dimensions in mm (inch))

Dimensional drawing

Pt100, 4 mA...20 mA, up to 150°C Pt100, 4 mA...20 mA, up to 250 °C M12 x 1 49 1.93) Ø19 (Ø0.75) M12 x 1 Ø19 70 (2.76) 57.4 (2.26) (Ø0.75) œ, (Ka 70 Ø6 Ø6 (Ø0.24) (Ø0.24) ØD ØD

All dimensions in mm (inch)

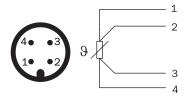
Design		ØD
DIN 32676	DN 10 DN 20	34.0 (1.34)
	DN 25 DN 40	50.5 (1.99)
	DN 50	64.0 (2.52)
ISO 2852	DN 12 DN 21.3	34.0 (1.34)
	DN 25 DN 38	50.5 (1.99)
	DN 40, DN 51	64.0 (2.52)
Tri-Clamp	1", 1 ½"	50.5 (1.99)
	2"	64.0 (2.52)

Application



Connection type

Round connector M12 x 1, output signal Pt100



Recommended accessories

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

	Brief description	Туре	Part no.
Plug connectors and cables			
N	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A14- 020UB3XLEAX	2095607
N 0	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14- 020VB3XLEAX	2096234
N	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14- 050UB3XLEAX	2095608
N O	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235
N	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YF2A14- 100UB3XLEAX	2095609

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	Brief description	Туре	Part no.
N	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A14- 100VB3XLEAX	2096236
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 15 m	YF2A14- 150VB3XLEAX	2096237
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A14- 020UB3XLEAX	2095766
*	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14- 020VB3XLEAX	2095895
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A14- 050UB3XLEAX	2095767
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14- 050VB3XLEAX	2095897
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 10 m	YG2A14- 100UB3XLEAX	2095768
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YG2A14- 100VB3XLEAX	2095898

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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:

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Online data sheet

