



THTS-1PAC30256MZ

THTS

TEMPERATURE SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	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

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, $R_a \leq 0.8 \mu\text{m}$
Pressure resistance	Max. 16 bar at room temperature
Housing material	Stainless steel (CrNi)
Electrical connection	Round connector M12 x 1, 4-pin, IP 67 and IP69 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

¹⁾ 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.

Performance

Accuracy of sensor element	Class A according to IEC 60751 ¹⁾
Transmitter accuracy	± 0,25 K
Transmitter linearity	≤ ± 0.1 % of span
Response time	$t_{50} \leq 3,3 \text{ s}$ $t_{90} \leq 9,7 \text{ s}$ ²⁾

¹⁾ Class B (measuring range -50 °C ... -30 °C).

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

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

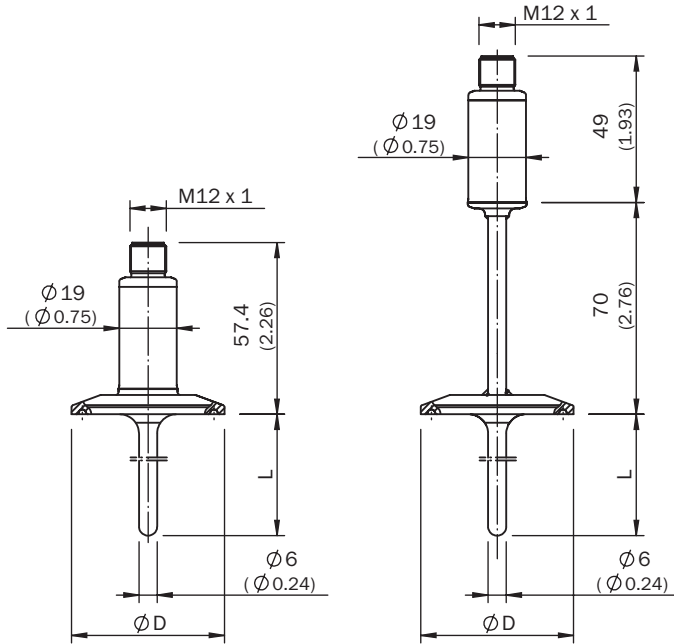
ECl@ss 5.0	27200208
ECl@ss 5.1.4	27200208
ECl@ss 6.0	27200208
ECl@ss 6.2	27200208
ECl@ss 7.0	27200208
ECl@ss 8.0	27200208
ECl@ss 8.1	27200208
ECl@ss 9.0	27200208
ECl@ss 10.0	27200208
ECl@ss 11.0	27200208
ETIM 5.0	EC002994
ETIM 6.0	EC002994
ETIM 7.0	EC002994
UNSPSC 16.0901	41112211

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



All dimensions in mm (inch)

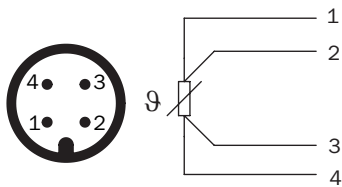
Design		Ø D
DIN 32676	DN 10 ... DN 20	34.0 (1.34)
	DN 25 ... DN 40	50.5 (1.99)
	DN 50	64.0 (2.52)
ISO 2852	DN 12 ... DN 21.3	34.0 (1.34)
	DN 25 ... DN 38	50.5 (1.99)
	DN 40, DN 51	64.0 (2.52)
Tri-Clamp	1", 1 ½"	50.5 (1.99)
	2"	64.0 (2.52)

Application








Connection type







Round connector M12 x 1, output signal Pt100



Recommended accessories

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

	Brief description	Type	Part no.
Plug connectors and cables			
	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
	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
	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
	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
	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

	Brief description	Type	Part no.
	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

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:

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