

THTL-1ABZZ0213MZ







Temperature sensors Resistance thermometer

Model Name > THTL-1ABZZ0213MZ

Part No. > 6047822





At a glance

- Pt100, accuracy class A (IEC 60751)
- Measuring ranges -50 °C ... +150 °C and -50 °C ... +250 °C
- · In-line housing for orbital welding in pipe
- · Sensor probe spring-loaded in thermowell
- · Wetted parts: Corrosion-resistant
- stainless steel 316L/1.4435, Ra 0.8 μm
- Pt100 (4-wire) or 4 mA ... 20 mA (2-wire)
- Round connector M12 x 1

Your benefits

- Engineered for installation in a pipe, the integrated design provides the optimal solution to this type of measurement
- The sensor can be exchanged without opening the process, providing high equipment availability and minimizing hygienic risks
- Safe hygienic operation: Wetted parts are made from high-grade stainless steel, hygienically-graded surface finish, and a design with minimum of dead space
- · Rugged: Connection housing is easily cleaned and splash water proof
- · Very good long-term stability, accuracy and linearity
- · Quick response time
- · Optimal solutions for individual requirements due to versatile configurability



Features

Measuring range: -50 °C ... 150 °C

Sensor element: Pt100

Signal output and maximum ohmic load RA: 4 mA ... 20 mA, 2-wire (RA ≤ (L+ - 10 V)/0.023 A [Ohm])

Performance

Accuracy of sensor element: Class A according to IEC 60751

Transmitter accuracy: $\leq \pm 0.2 \%$ of span Transmitter linearity: $\leq \pm 0.1 \%$ of span

Response time: Response time t50: \leq 3.2 s ₁) response time t90: \leq 7.3 s

1) Depending on sensor configuration, according to IEC 60751

Mechanics/electronics

Process connection: Spare sensor without process connection

Nominal width: NW 21.3

Housing material: Stainless steel 1.4571 (316Ti)

Wetted parts: stainless steel 1.4435 (316L), Ra ≤ 0.8 μm

Electrical connection/enclosure rating ¹⁾: Round connector M12 x 1, 4-pin/IP 68 and IP 69K

Electrical safety: Dielectric strength: 500 V AC

Protection class: III

Reverse polarity protection: L+ towards M

10 V DC ... 35 V DC

Protection class III:

CE-conformity: 2004/108/EC, EN 61326-2-3
Pressure resistance: Max. 25 bar at room temperature

Maximum power consumption: Ca. 30 mA

Ambient data

Supply voltage:

Ambient temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$ Storage and transport temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$

Vibration resistance according to IEC 60751: 3 g

Shock resistance: According to IEC 60751

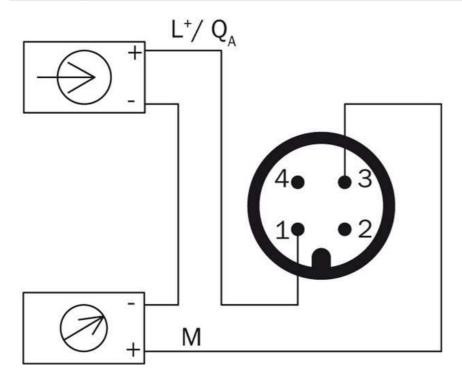
Relative humidity: ≤ 95 %

Dimensional drawing process connection

Pt100 4 mA ... 20 mA M12 x 1 M12 x 1 49 Ø19 (Ø0.75) Ø19 (Ø0.75) 40 40 G 3/8 G 3/8 Ø3 03 (Ø0.12) (Ø0.12)

All dimensions in mm (inch)

¹⁾ Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply while the pressure transmitter is connected with female connectors that provide the corresponding enclosure rating.



Australia

Phone +61 3 9457 0600 1800 33 48 02 - tollfree

E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66 E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900

E-Mail marketing@sick.com.br

Phone +1 905 771 14 44 E-Mail information@sick.com

Česká republika

Phone +420 2 57 91 18 50

E-Mail sick@sick.cz

China

Phone +86 4000 121 000 E-Mail info.china@sick.net.cn Phone +852-2153 6300 E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00 E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301

E-Mail info@sick.de

Phone +34 93 480 31 00

E-Mail info@sick.es

France

Phone +33 1 64 62 35 00

E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121

E-Mail info@sick.co.uk

Phone +91-22-4033 8333

E-Mail info@sick-india.com

Israel

Phone +972-4-6881000

E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41

E-Mail info@sick.it

Phone +81 (0)3 5309 2112

E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680

E-Mail office@sick.hu

Nederland

Phone +31 (0)30 229 25 44

E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00

E-Mail sick@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0

E-Mail office@sick.at

Phone +48 22 837 40 50

E-Mail info@sick.pl

România

Phone +40 356 171 120

E-Mail office@sick.ro

Phone +7-495-775-05-30

E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39

E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732

E-Mail sales.gsg@sick.com

Slovenija

Phone +386 (0)1-47 69 990

E-Mail office@sick.si

South Africa

Phone +27 11 472 3733

E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4

E-Mail info@sickkorea.net

Phone +358-9-25 15 800

E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00

E-Mail info@sick.se

Phone +886 2 2375-6288

E-Mail sales@sick.com.tw

Phone +90 (216) 528 50 00

E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 88 65 878

E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780

1 (800) 325-7425 - tollfree

E-Mail info@sickusa.com

More representatives and agencies

at www.sick.com

