

THTL-1PBZZ0213MZ







Temperature sensors Resistance thermometer

Model Name > THTL-1PBZZ0213MZ

Part No. > 6047818





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

Output signal: Pt100, 4-wire

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

Measuring current: 0.3 mA ... 1 mA

Electrical safety: Dielectric strength: 500 V AC

Protection class: III

Protection class III:

Pressure resistance: Max. 25 bar at room temperature

Ambient data

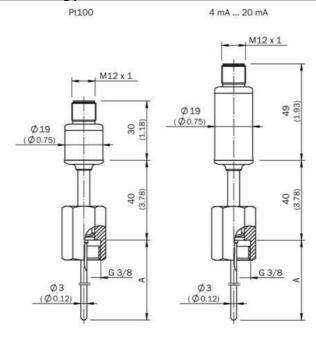
Ambient temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$ Storage and transport temperature: $-40 \,^{\circ}\text{C} \dots 85 \,^{\circ}\text{C}$

Vibration resistance according to IEC 60751: 3 g

Shock resistance: According to IEC 60751

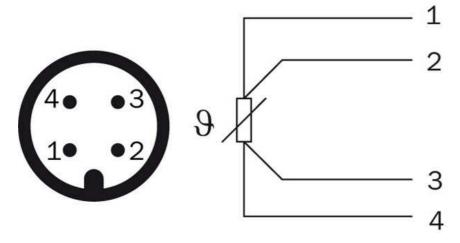
Relative humidity: ≤ 95 %

Dimensional drawing process connection



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.



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