



Temperature sensors  
Resistance thermometer

THTL-1PAZZ0213MZ



**Model Name** > [THTL-1PAZZ0213MZ](#)  
**Part No.** > [6047815](#)



#### 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:	≤ ± 0.2 % of span
Transmitter linearity:	≤ ± 0.1 % of span
Response time:	Response time t50: ≤ 3.2 s <sup>1)</sup> response time t90: ≤ 7.3 s

<sup>1)</sup> Depending on sensor configuration, according to IEC 60751

#### Mechanics/electronics

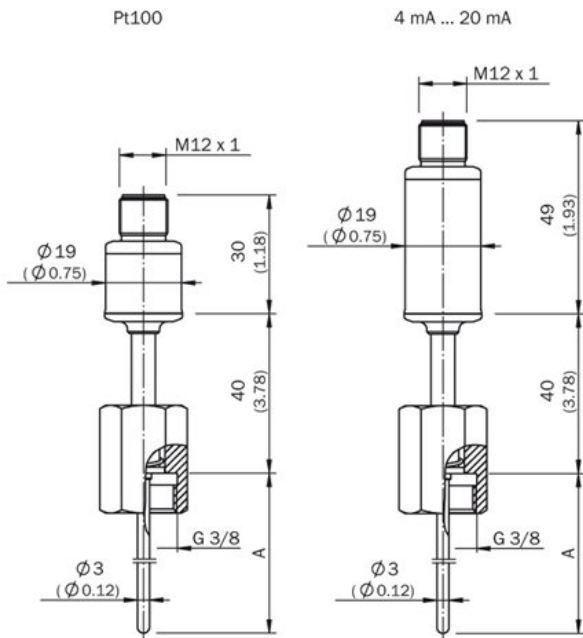
Process connection:	Spare sensor without process connection
Nominal width:	NW 21.3
Housing material:	Stainless steel 1.4571 (316Ti)
Wetted parts:	stainless steel 1.4435 (316L), Ra ≤ 0.8 μm
Electrical connection/enclosure rating <sup>1)</sup> :	Round connector M12 x 1, 4-pin/IP 68 and IP 69K
Measuring 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

<sup>1)</sup> 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.

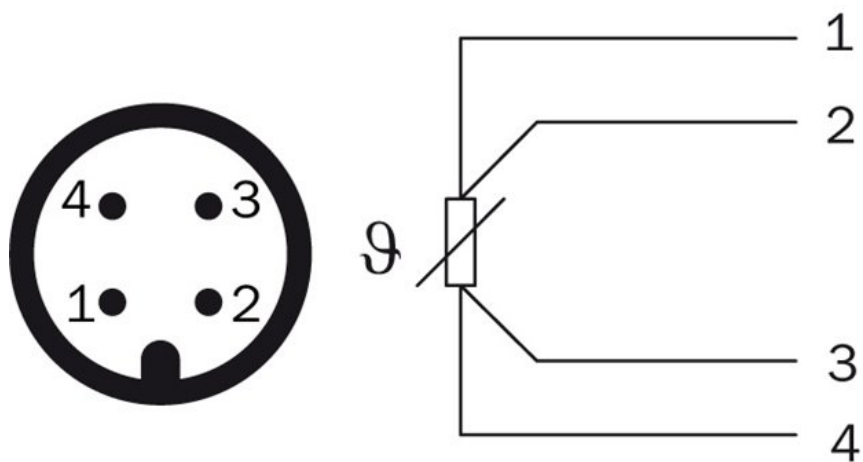
### Ambient data

Ambient temperature:	-40 °C ... 85 °C
Storage and transport temperature:	-40 °C ... 85 °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)



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