



Temperature sensors Resistance thermometer

THTS-1AA540756MZ



Model Name > **THTS-1AA540756MZ**
Part No. > **6047611**



At a glance

- Pt100 element, accuracy class A (IEC 60751)
- Measuring ranges -50 °C ... +150 °C and -50 °C ... +250 °C
- Wetted parts: Corrosion-resistant stainless steel 316L/1.4435, Ra 0.8 µm
- Various hygienic process connections and insertion lengths
- Pt100 (4-wire) or 4 mA ... 20 mA (2-wire)
- Round connector M12 x 1

Your benefits

- Convenient system integration – installation in narrow installation space possible through compact dimensions
- Safe, hygienic operation due to wetted parts made from high-grade stainless steel, hygienically-graded surface finish and a gap- and crevice-free design
- Rugged: Connection housing is easily cleaned and splash proof
- Quick and safe installation
- 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 ($RA \leq (L + 10 \text{ V}) / 0.023 \text{ A [Ohm]}$)

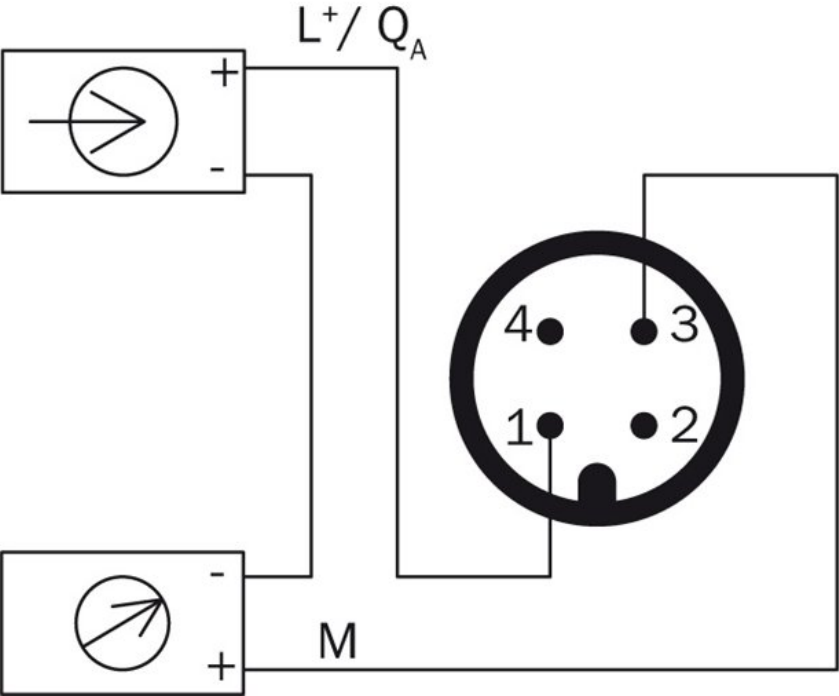
Performance

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 t_{50} : $\leq 3.3 \text{ s}_1$ response time t_{90} : $\leq 9.7 \text{ s}$

¹⁾ Depending on sensor configuration, according to IEC 60751

Mechanics/electronics

Process connection:	Conical coupling (DIN 11851) DN 40 with union nut
Insertion length/diameter of probe:	75 mm/6 mm
Housing material:	Stainless steel 1.4571 (316Ti)
Wetted parts:	stainless steel 1.4435 (316L), $Ra \leq 0.8 \mu\text{m}$



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