THERMOMETRICS
A COMMITMENT TO EXCELLENCE

NTC Type JI/JIC Waterproof IP68 Temperature Sensor

Overmolded NTC Thermistor



NTC Type JI



NTC Type JIC

Type JI: The NTC thermistor is molded onto a flexible circular cable. The tip and outer cable insulation material is thermoplastic elastomer rubber. The tinned copper conductors have individual polypropylene insulation.

Type JIC: The NTC thermistor is molded onto a flexible circular cable housed in stainless steel. The tip and outer cable insulation material is thermoplastic elastomer rubber. The tinned copper conductors have individual polypropylene insulation.

Features

- Waterproof to IP68
- Withstands freeze/thaw cycling
- Range of wire lengths 300 mm to 5000 mm (11.8 in to 16.4 ft)
- Halogen-free cable
- Sensor tip and extension cable molded together as one hot vulcanised unit
- RoHS compliant

Applications

- Ventilation
- Refrigeration
- Heat pumps
- Water heaters
- Weather stations
- Outdoor temperature measurement
- Under-floor heating
- Fish tanks
- Evaporators

Options

- Other resistance - temperature characteristics
- Other wire lengths
- Other housing lengths

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NTC Type JI/JIC Specifications

Temperature Range: -50°C to +105°C (-58°F to 221°F) continuous (125°C/257°F up to maximum 6 hours)

Dielectric Strength: 3750V AC

Insulation Resistance: >100MΩ at 1000V DC

Cable Type: 2 x 0.30 mm² (23 AWG)

Wire Conductors: 7 x 0.23 mm diameter (0.30 mm²)

	NK103C1R2	DC95F103WN
R25°C (R77°F)	10kΩ ± 2%	10kΩ
Tolerance 0°C - 70°C		±0.2°C
B value 25/85°C (R77/185°F)	3977K	3969K
Material	1	F
For complete RVT Table, refer to document AAS-913-318.		

Ordering Information

Resistance characteristics and wire length are specified by the product code as per the table below:

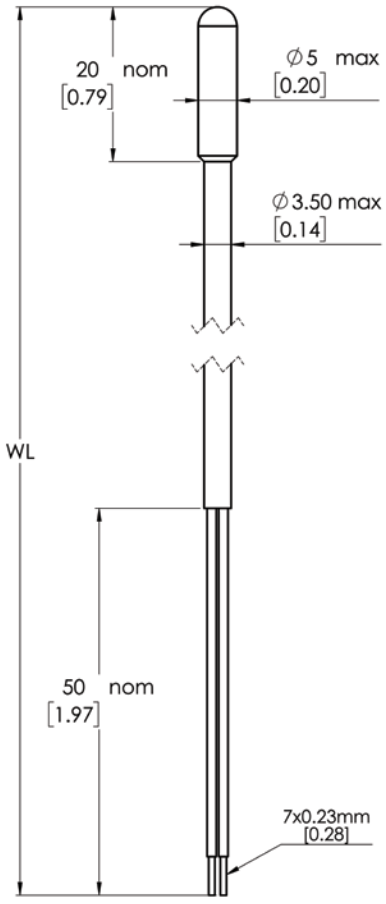
Code	Assembly Type
JI	Double-insulated sensor with rubber tip
JIC	Double-insulated sensor with Stainless Steel housing

Code	Thermistor Type
103C1R2	NK103C1R2
F103W	DC95F103WN

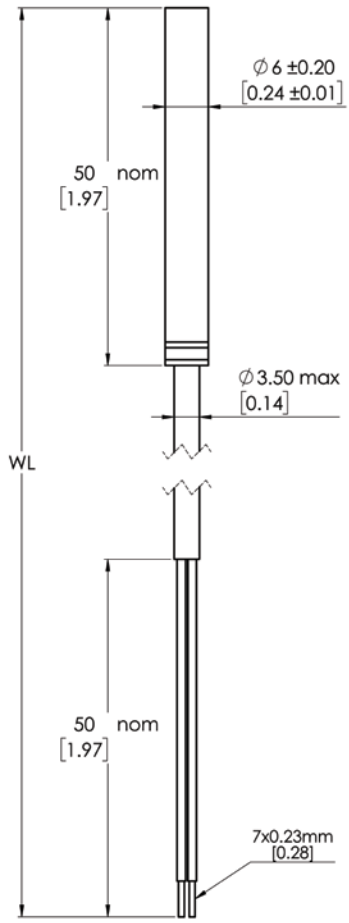
Code	Wire Length mm (in)
L301	300 (11.8) ± 10 (0.4)
L102	1000 (39.4) ± 20 (0.8)
L252	2500 (98.4) ± 50 (2.0)

___ - _____ - _____ **Typical Model Number**

Other wire lengths are available for quantities > 5000 pieces.



NTC Type JI - Dimensions



NTC Type JIC - Dimensions

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