

MFT series temperature sensor using the NTC resistance element, according to the different temperature environment or application, through the mature technology, fabricate into a variety of specifications of the sensor, customers can use directly without fabricating.



Typical Applications

- Ice maker machine
- Refrigerator
- Heat Pump
- Water heater
- Floor heating System
- General Application etc.

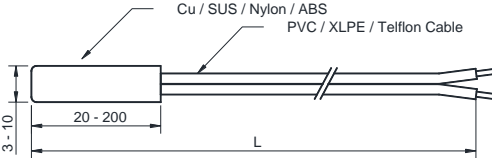
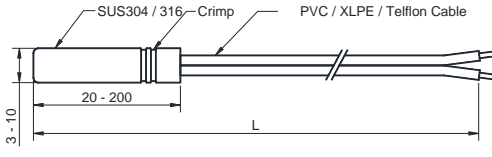
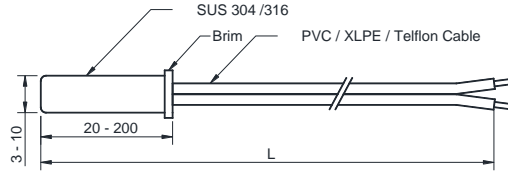
Features

- SUS , Cu, Plastic housings for food grade
- Suitable for general temperature work in

Technical Data

| Item | Parameter |
|-----------------------|--|
| Sensing Element | NTC Thermistor various R and B value on request |
| Temperature range | -40°C to +105°C |
| Response time | Water (0.4m/s) T0.63 ≤ 30s |
| Dissipation Factor | ≥ 2.5mW/°C |
| Long-term stability | Drift ≤ 3% after 1000h heat or cold store (80°C / -30°C) |
| Dielectric Strength | 1500VAC |
| Insulation Resistance | ≥100MΩ 500VDC |

Dimensions (mm)

| Part No. | Dimensions | Application |
|----------|---|---|
| MFT-A |  | <p>Feature</p> <ul style="list-style-type: none"> Moisture proof Available for various temperature ranges. Shell has a variety of choice <p>Application</p> <ul style="list-style-type: none"> House hold Air-conditioner Refrigerate, heater |
| MFT-B |  | <p>Feature</p> <ul style="list-style-type: none"> Corrosion resistance, good sealing <p>Application</p> <ul style="list-style-type: none"> White Goods Small household electrical appliance Electrical Toys Ambient temperature measurement etc. |
| MFT-C |  | <p>Feature</p> <ul style="list-style-type: none"> Corrosion resistance Good sealing <p>Application</p> <ul style="list-style-type: none"> White Goods Ambient temperature measurement etc. |

Other options:

Standard value: R25°C: 10K B25/85°C: 3435, different NTC R-T curve

Different probe and wire size and color available.

Different size SUS housings available for sensor mounting protection

Different type of connector is available

Ordering code

MFT
(1)
A
(2)
xxx
(3)
x
(4)
xxx
(5)
x
(6)
x
(7)
x
(8)
x
(9)

1. Housings Type.

| Code | Description |
|-------|--|
| MFE | Epoxy encapsulation type or injection molding type |
| MFT | Tubular type |
| MFL | Insert lead type |
| MFP-1 | Line pressing type |
| MFP-2 | Surface installation type |
| MFP-3 | Multi-step type |
| MFP-4 | Flange shape type |
| MFP-5 | Hat shape tube type |
| MFP-6 | Threaded fastening installation |
| MFP-7 | Pipe clamp type |

2. Sub-class: Housings shape.

3. Resistance value at 25°C.

4. Resistance tolerance.

| Code | Tolerance (25°C)% | Code | Tolerance (25°C)% |
|------|-------------------|------|-------------------|
| E | ±0.5 | H | ±3.0 |
| F | ±1.0 | J | ±5.0 |
| G | ±2.0 | K | ±10.0 |

5. Beta value, unit: K.

6. Beta value Temperature code.

| Code | T1/T2 |
|------|---------------------|
| A | 25/50(Default) |
| B | 25/85 |
| E | Defined by Customer |

7. Wire type.

8. Wire length.

The 1st and 2nd digits are for the significant figures of the length and the 3rd indicate the numbering of the zeros following.

Example: 1m = 102, 10m=103.

9. Housings Drawing number.