

MFP 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

- Refrigerator
- HVAC
- Projector
- Motor
- Lithium Battery Protect
- Heat sink

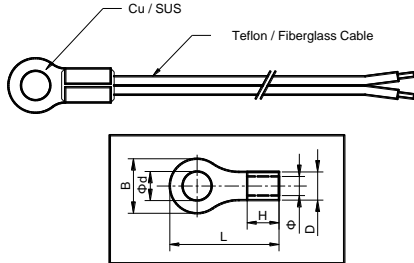
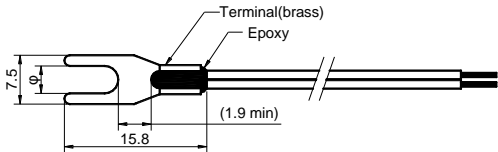
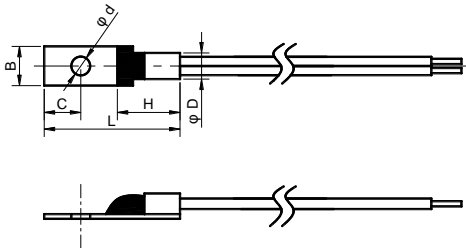
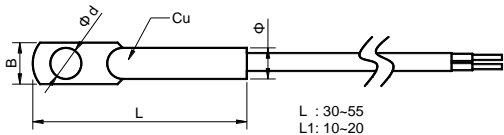
### Features

- Standard Lug terminal sensor with NTC element
- Easy installation.

### Technical Data

Item	Parameter
Sensing Element	NTC Thermistor various R and B value on request
Temperature range	-30°C to +150°C
Response time	Water (0.4m/s) $T_{0.63} \leq 30$ s
Dissipation Factor	$\geq 2.5\text{mW}/^\circ\text{C}$
Long-term stability	Drift $\leq 3\%$ after 1000h heat or cold store (80°C / -30°C)
Dielectric Strength	1500VAC
Insulation Resistance	$\geq 100\text{M}\Omega$ 500VDC

### Dimension (mm)

Part No.	Dimensions	Application
MFP-2A		Application Lithium Battery Protect Motor
MFP-2B		Application Heat sink Projector
MFP-2C		Application Heat sink
MFP-2D		Application Heat blade cutter Lithium Battery Protect Motor

### Ordering code

MFP-2    A    xxx    x    xxx    x    x    x    x  
 (1)    (2)    (3)    (4)    (5)    (6)    (7)    (8)    (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 1<sup>st</sup> and 2<sup>nd</sup> digits are for the significant figures of the length and the 3<sup>rd</sup> indicate the numbering of the zeros following.

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

9. Housings Drawing number.