MFP-4 Series

Temperature Sensor

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.
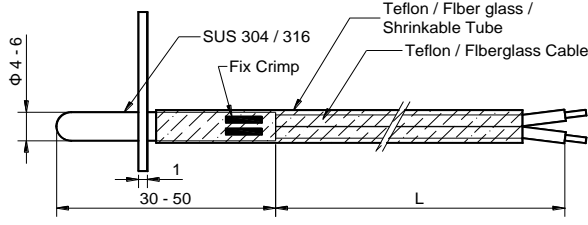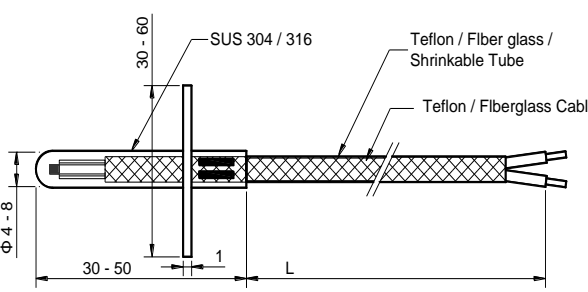
Typical Applications	Features
● Toaster oven	● Easy installation
● Constant temperature liquid bath	● Fast response
● Constant temperature chambers	● High level of water proof and durability
● Food waste disposer	
● Dish washer.	

Technical Data

Item	Parameter
Sensing Element	NTC Thermistor various R and B value on request
Temperature range	-20°C to +200°C
Response time	Water (0.4m/s) T0.63 ≤ 12s
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
MFP-4A	Φ 4 - 6 — SUS 304 / 316 — Fix Crimp — Teflon / Fiber glass / Shrinkable Tube — Teflon / Fiberglass Cable — 30 - 50 — 1 — L	**Feature** Fast response High level of water proof and durability **Application** Toaster oven Food waste disposer
MFP-4B	30 - 60 — SUS 304 / 316 — Teflon / Fiber glass / Shrinkable Tube — Teflon / Fiberglass Cable — Φ 4 - 8 — 30 - 50 — 1 — L	**Feature** Fast response High level of water proof and durability **Application** Constant temperature liquid bath Constant temperature chambers

Other option:
    Different probe and wire size and color available.
    Different size SUS housings available for sensor mounting protection
    Different type of connector available

Ordering code

$$\underset{(1)}{\underline{\text{MFP-4}}} \quad \underset{(2)}{\underline{\text{X}}} \quad \underset{(3)}{\underline{\text{XXX}}} \quad \underset{(4)}{\underline{\text{X}}} \quad \underset{(5)}{\underline{\text{XXX}}} \quad \underset{(6)}{\underline{\text{X}}} \quad \underset{(7)}{\underline{\text{X}}} \quad \underset{(8)}{\underline{\text{X}}} \quad \underset{(9)}{\underline{\text{X}}}$$

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.