MFP-6 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.

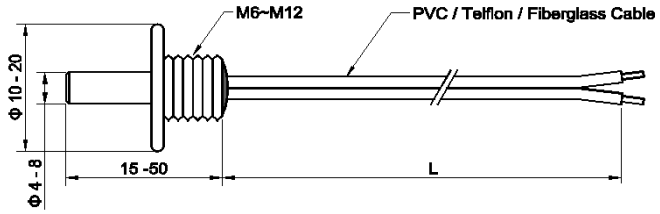
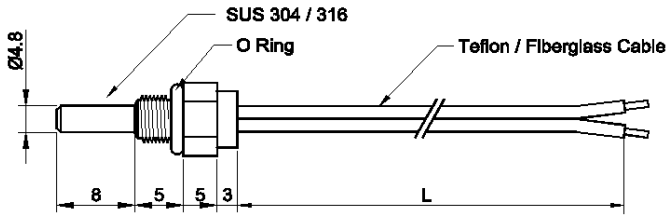
According to the different application, choose a different installation method, including front-end thread and the back-end.

Typical Applications	Features
Water heater	Screw and nut mounting
Coffee machine	Solid structure
Water boiler	Waterproof and fast response
Solar systems	

Technical Data

Item	Parameter
Sensing Element	NTC Thermistor various R and B value on request
Temperature range	-30°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
MFP-6A		Feature Moisture-proof small time constant End-end thread Fast respond Application Water boiler
MFP-6B		Feature Front-end thread SUS Housings Application Water heater Coffee machine Solar systems

Other options:

Different probe and wire size and color available.

Different size SUS housings available for sensor mounting protection

Different type of connector available

Ordering code

MFP-6	x	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 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.