

# EMPERATURE SENSOR Type K thermocouple(Some are UL certified.)

Temperature sensors for our digital temperature controller "MonoOne" series. It is ready to use if your temperature controller supports thermocouple K and Pt100 $\Omega$ .



Type K thermocouple

**RoHS Compliance** 

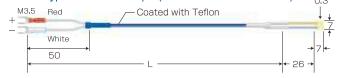
## Sheet type K thermocouple

### Selection Standard

This is formed of a thermocouple on an insulating sheet, and is suitable for measuring surface temperature.

It is a sheet-like thermocouple that is stuck on the surface of the object to measure surface temperature quickly and accu-

#### Thickness Sheet type K thermocouple(Coated with Fluororesin)



Normal limit: 200°C	Tolerance: Class $2(\pm 2.5\% \text{ or } \pm 0.75\%)$

Product code	L(m)
TH-8297-1	1.0
TH-8297-3	3.0
TH-8297-10	10.0

#### Normal Limit of temperature sensing section

Outer diameter of sheath $\phi$ (mm)	Normal Limit ℃(SUS316)
1.0, 1.6, 2.3	650
2.3,3.2	750

# Sheath type K thermocouple

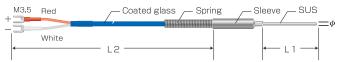
### Selection Standard

This is a stainless steel sheath tube filled with inorganic insulator at high pressure through a thermocouple element, and is excellent in sensitivity, vibration resistance, and economical efficiency.

However, the durability of measurement in a high-temperature activated gas atmosphere may be extremely poor.

Please consult us in advance.

#### Sheath type K thermocouple(Coated with glass)



Maximum cladding material temperature: 250℃(Sleeve 80℃) Tolerance: Class 2

Product code	Φ (m)	L1(m)	L2(m)
TH-8159	3.2	100	1.5
TH-8159-1	3.2	100	3.0
TH-8159-2	3.2	100	5.0
TH-8185	3.2	300	3.0
TH-8182	3.2	500	3.0
TH-8192	3.2	50	3.0
TH-8163	1.6	100	3.0
TH-8163-1	1.6	100	1.5
TH-8196	1.0	100	3.0

## Sheath type K thermocouple (Coated with silicone)



Maximum cladding material temperature: 180℃(Sleeve 80℃) Tolerance: Class 2

Product code	Φ (m)	L1(m)	L2(m)
TH-8173	2.3	100	2.0
TH-8174	3.2	100	2.0



Waterproof type  $\Phi(m)$ L1(m) Product code L2(m) TH-8100-2 3.2 100 2.0



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# TEMPERATURE SENSOR Type K thermocouple(Some are UL certified.)

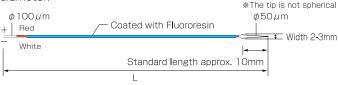
# Ultrafine type K thermocouple

### Selection Standard

It is suitable for measurement of ultrafine part and gas temperature.

This ultrafine thermocouple with ultra-high-speed response is one of the industry's best in the field.

The tip of the thermocouple is a thermocouple with  $50\,\mu\mathrm{m}$  diameter.



Normal limit: 260°C Tolerance: Class2( $\pm 2.5$ °C or  $\pm 0.75$ %)

Product code	L(m)
TH-8910-1	1.0

# Stick type K thermocouple

## Selection Standard

It is recommend if the detection section is planar or flat. This is a sensor with stable sensing of its heat resistance of  $260^{\circ}$ C and high durability.



Normal limit: 260°C Tolerance: Class2( $\pm 2.5$ °C or  $\pm 0.75$ %)

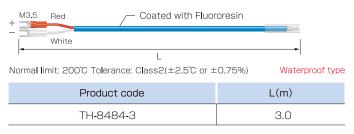
Product code	L(m)
TH-8282	2.0

## Mold type K thermocouple

#### Selection Standard

The tip is molded with resin and is recommended for measurements in liquids

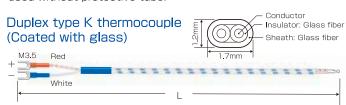
The sensor with heat resistance of 200°C and waterproofing.



# Duplex(tip welding)type K thermocouple

### Selection Standard

The duplex type K thermocouple is the one whose thermocouple element wire is coated with Fluororesin or glass. It is used without protective tube.



Normal limit: 250°C Tolerance: Class2 (±2.5°C or ±0.75%) Wire diameter: 0.32mm

Product code	L(m)
TH-8162-1~TH-8162-20	2,000
TH-8282-2	2.0
TH-8282-3	3.0
TH-8282-5	5.0
TH-8282-10	10.0
TH-8282-20	20.0

Normal limit: 250°C Tolerance: Class1(±1.5°C or ±0.4%) Wire diameter: 0.32mm

Product code	L(m)
TH-8296-1	1.0
TH-8296-2	2.0
TH-8296-3	3.0
TH-8296-5	5.0
TH-8296-10	10.0
TH-8296-20	20.0

# Duplex type K thermocouple (Coated with Fluororesin)



Normal limit: 260°C Tolerance: Class2(±2.5°C or ±0.75%) Wire diameter: 0.32mm

Product code	L(m)
TH-8181-1	1.0
TH-8181-2	2.0
TH-8181-3	3.0
TH-8181-5	5.0
TH-8181-10	10.0
TH-8181-20	20.0



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- Insulator: PFA





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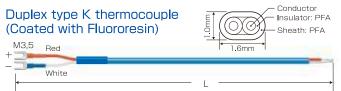
Type K thermocouple

RoHS Compliance

# Duplex (tip welding) type K thermocouple

Conductor

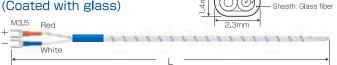
Insulator: Glass fiber



Normal limit: 260°C Tolerance: Class1( $\pm$ 1.5°C or  $\pm$ 0.40%) Wire diameter: 0.32mm

Product code	L(m)
TH-8391-1	1.0
TH-8391-2	2.0
TH-8391-3	3.0
TH-8391-5	5.0
TH-8391-10	10.0
TH-8391-20	20.0

## Duplex type K thermocouple (Coated with glass)



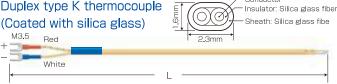
Normal limit: 350°C Tolerance: Class2(±2.5°C or ±0.75%) Wire diameter: 0.32mm

Product code	L(m)
TH-8294-1	1.0
TH-8294-2	2.0
TH-8294-3	3.0
TH-8294-5	5.0
TH-8294-10	10.0
TH-8294-20	20.0

Normal limit: 350°C Tolerance: Class1( $\pm$ 1.5°C or  $\pm$ 0.40%)Wire diameter: 0.32mm

L(m)
1.0
2.0
3.0
5.0
10.0
20.0

Duplex type K thermocouple

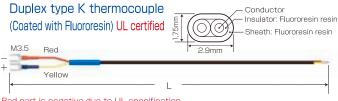


Normal limit: 400°C Tolerance: Class2( $\pm 2.5$ °C or  $\pm 0.75$ %) Wire diameter: 0.32mm

Product code	L(m)
TH-8292-1	1.0
TH-8292-2	2.0
TH-8292-3	3.0
TH-8292-5	5.0
TH-8292-10	10.0
TH-8292-20	20.0

Normal limit: 400°C Tolerance: Class 1 (±1.5°C or ±0.40%) Wire diameter: 0.32mm

Product code	L(m)
TH-8396-1	1.0
TH-8396-2	2.0
TH-8396-3	3.0
TH-8396-5	5.0
TH-8396-10	10.0
TH-8396-20	20.0



Red part is negative due to UL specification

Normal limit: 200°C Tolerance: Class2(±2.5°C or ±0.75%) Wire diameter: 0.65mm

Product code	L(m)
TH-8290-1	1.0
TH-8290-2	2.0
TH-8290-3	3.0
TH-8290-5	5.0
TH-8290-10	10.0
TH-8290-20	20.0

Changeable to circular terminal as optional (Extra charge) Product: Duplex type K thermocouple Please consult us.





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