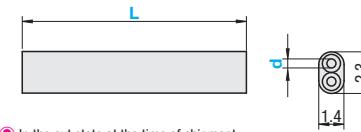


Sheathed Thermocouples, Compensation Lead Wires

K Thermocouple Connectors, Bimetal Thermostats

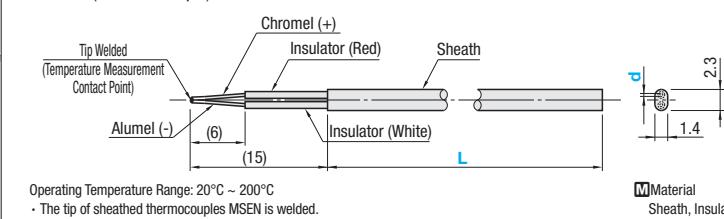
Sheathed Thermocouples

MSEN (K Thermocouple)



② In the cut state at the time of shipment.

MSEW (K Thermocouple)



Operating Temperature Range: 20°C ~ 200°C
• The tip of sheathed thermocouples MSEW is welded.

RoHS10

| Part Number | Type | Dia. of Element Wire d | L 1mm Increment | Unit Price | | |
|-------------|------|------------------------|--------------------|------------|------|------|
| | | | | MSEN | MSEW | MSEN |
| MSEN | | 0.32 | 200~3000 | | | |
| MSEW | | 0.32 | 300 | | | |

Ordering Example Part Number - L
MSEN0.32 - 500
MSEW0.32 - 300

Features

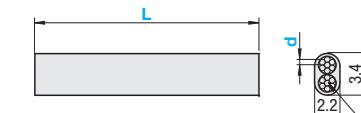
- Since the temperature measuring point is exposed, the reaction speed is faster than that of the sheathed type.
- Temperature measurement can be conducted based on the above measuring point of the tested object.

Temperature Measuring Point

Before using MSEN, expose alumel and chromel and twist/weld them to create the temperature measuring point.

Compensation Lead Wires

DSEN



Operating Temperature. Range: 0°C ~ 150°C

② In the cut state at the time of shipment.

RoHS10

| Part Number | Type | Dia. of Element Wire d | L 0.1m Increment | Unit Price | | |
|-------------|------|------------------------|---------------------|------------|----------|-----------|
| | | | | L1.0~3.9 | L4.0~6.9 | L7.0~10.0 |
| DSEN | | 0.32 | 1.0~10.0 | | | |

Ordering Example Part Number - L
DSEN0.32 - 2.5

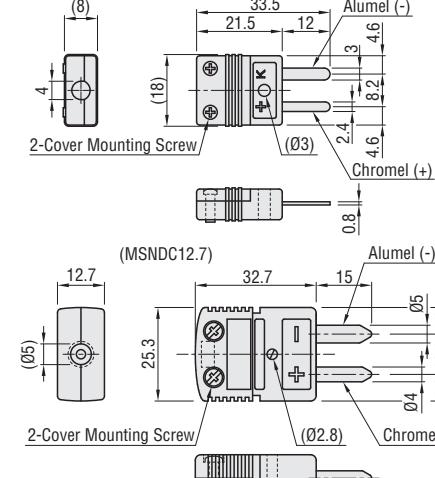
Features

- It can be used as a lead wire of sheathed thermocouples.
- Also can be used to extend temperature sensor (K thermocouple) on P.1654~1663.

K Thermocouple Connectors

MSNDC

(Plug) (MSNDC8)



Operating Temperature. Range: 0°C ~ 130°C

②

| Part Number | Unit Price |
|-------------|------------|
| MSNDC | 8 12.7 |

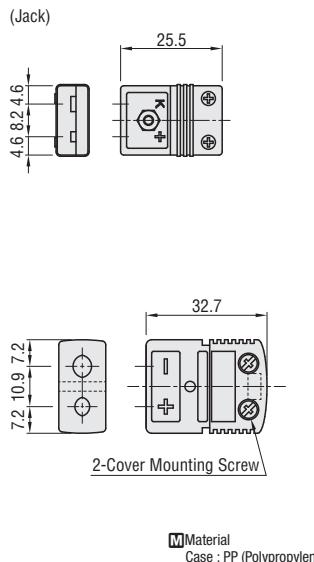


Ordering Example Part Number
MSNDC12.7

Features

- The compensation lead wires can easily be attached and detached by connecting them with plug and jack of the connector respectively.

*No.8 and No.12.7 are same except for the size.



Material Case : PP (Polypropylene)

Bimetal Thermostats

MBMS



| Part Number | Rated Operating Temperature (°C) | Unit Price |
|-------------|----------------------------------|------------|
| MBMS | No. | |
| 080 | 80±5 | |
| 100 | 100±5 | |
| 120 | 120±5 | |
| 140 | 140±5 | |
| 160 | 160±5 | |
| 180 | 180±5 | |
| 200 | 200±5 | |

Features

- Bimetal of automatic return type.
- It energizes (NC) when the power is turned on and the contact point shuts off when it reaches to the operation temperature (OFF) and electricity is turned off. It automatically recovers when it is below the rated operating temperature.



Ordering Example Part Number
MBMS080

Material
Body : Ceramic (Steatite Type)
Cap : Aluminum
Bimetal : Disk Bimetal

(Structure)

Principle of Operation: Bimetal Non-energizing Type, Single Pole Single Throw, Operating Temperature One Point Fixed Type

Operating Method: OFF when temperature rises, and ON when temperature drops (Electric Rating)

Resistive Load AC125V/15A AC250V/7.5A (Minimum Current: 0.1A)

(Contact Resistance)

50mΩ or less according to minute current ohmmeter (DC6V/0.1A) (Initial Value)

(Insulation Resistance)

100MΩ or more in DC500V mega in the charge part and non-charge part

(Insulation Resistance)

AC1500V/min or AC1800V/sec in the charge part and non-charge part

(Leakage current: 10mA)

(ON/OFF Life Span Test)

The thermal ON/OFF operation is done 10,000 times at the load of rated current and voltage.

Insulation Resistance: 50MΩ; Contact resistance: 100mΩ or less