

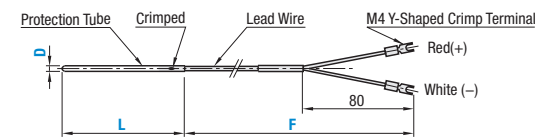
Temperature Sensors

Compact / Taper Thread Type

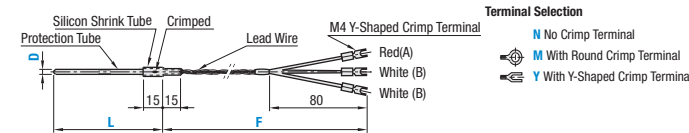
Temperature Sensors – Compact

Type		Type of Temperature Sensor
Lead Wire Standard	Lead Wire Configurable	
TCKC	—	K Thermocouple
TCPC	TCPCF	Temperature Measuring Resistor Pt100Ω

TCKC K Thermocouple



TCPC / TCPCF Temperature Measuring Resistor Pt100Ω



ⓘ Protection pipe cannot be bent.
Features: Lead wire is directly pulled out of protection tube. Does not have a sleeve, which shortens the distance between the heater and heated object and saves space for installation.

TCKC

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temp. Measurement Contact Point	Isolated Neutral Type
Temp. Measurement Range	0~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0~150°C)

TCPC / TCPCF

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temp. Measurement Range	-50~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Silicon Shrink Tube Heat-Resistant Temp.	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50~150°C)

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Lead Wire Standard Type

Part Number Type	D	L Standard	F Standard (Unit: m)	Type of Terminal
K Thermocouple TCKC	3.2	100	2	Y
Temperature Measuring Resistor TCPC				M4 Crimp Spade

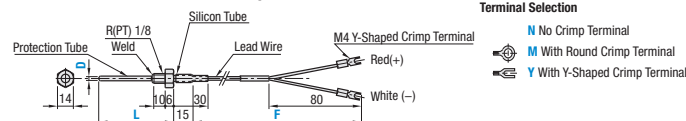
Lead Wire Configurable Type

Part Number Type	D	L Standard	F 0.1m Increment	Terminal Selection
Temperature Measuring Resistor TCPCF	3.2	100	0.3~5.0	N M Y

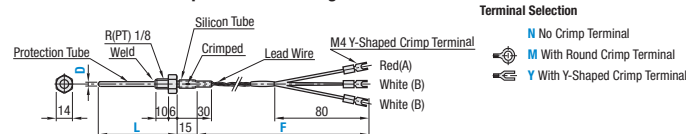
Temperature Sensors – Taper Thread Type

Type		Type of Temperature Sensor
Lead Wire Standard	Lead Wire Configurable	
TCKT	TCKTF	K Thermocouple
TCPT	TCPTF	Temperature Measuring Resistor Pt100Ω

TCKT / TCKTF K Thermocouple



TCPT / TCPTF Temperature Measuring Resistor Pt100Ω



ⓘ Protection pipe cannot be bent.
Features: Taper screw is welded to Compact Type. Best suited for the temperature measurement where the air-tightness for liquid is required.

TCKT / TCKTF

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temp. Measurement Contact Point	Isolated Neutral Type
Temp. Measurement Range	0~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Taper Screw	304 Stainless Steel
Silicon Tube Heat Resistance Temp.	150°C
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0~150°C)

TCPT / TCPTF

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temp. Measurement Range	-50~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Taper Screw	304 Stainless Steel
Silicon Tube Heat Resistance Temp.	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50~150°C)

RoHS10

Lead Wire Standard Type

Part Number Type	D	L Standard	F Standard (Unit: m)	Type of Terminal
K Thermocouple TCKT	3.2	65	2	Y
Temperature Measuring Resistor TCPT				M4 Crimp Spade

Lead Wire Configurable Type

Part Number Type	D	L Standard	F 0.1 m Increment	Terminal Selection
K Thermocouple TCKTF	3.2	65	0.3~5.0	N M Y
Temperature Measuring Resistor TCPTF				

Part Number Example

Part Number	-	L	-	F	-	Terminal
TCKC3.2		100				
TCKTF3.2		65		F2.5		M

ⓘ Please refer to "Precautions for Use" in the Temperature Sensor Guide on P.3756.

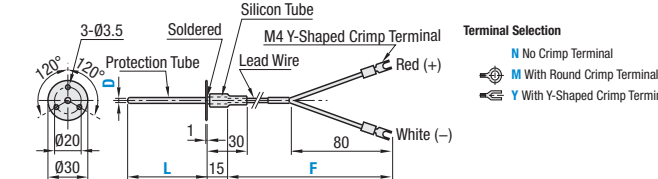
Temperature Sensors

Flange / Sheath Type for Moving Parts

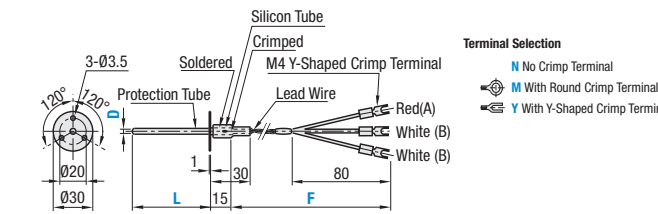
Temperature Sensors – Flanged Type

Type		Type of Temperature Sensor
Lead Wire Standard	Lead Wire Configurable	
TCKF	TCKFF	K Thermocouple
TCPF	—	Temperature Measuring Resistor Pt100Ω

TCKF / TCKFF K Thermocouple



TCPF Temperature Measuring Resistor Pt100Ω



ⓘ Protection pipe cannot be bent.
Features: It is a flanged compact type and easy to attach to a device.

TCKF / TCKFF

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temp. Measurement Contact Point	Isolated Neutral Type
Temp. Measurement Range	0~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Flange	304 Stainless Steel
Silicon Tube Heat Resistance Temp.	150°C
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0~150°C)

TCPF

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temp. Measurement Range	-50~250°C
Material	304 Stainless Steel
Protection Tubes	304 Stainless Steel
Flange	304 Stainless Steel
Silicon Tube Heat Resistance Temp.	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50~150°C)

Lead Wire Standard Type

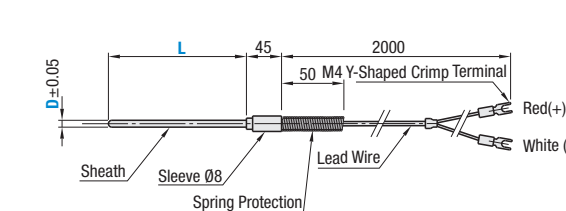
Part Number Type	D	L Standard	F Standard (Unit: m)	Type of Terminal
K Thermocouple TCKF	3.2	65	2	Y
Temperature Measuring Resistor TCPF				M4 Crimp Spade

Lead Wire Configurable Type

Part Number Type	D	L Standard	F 0.1 m Increment	Terminal Selection
K Thermocouple TCKFF	3.2	65	0.3~5.0	N M Y

Temperature Sensors – Sheath Type for Moving Parts

MFSK K Thermocouple



Features: Highly flexible silicon covered lead wire is usable in moving applications.

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temp. Measurement Contact Point	Isolated Neutral Type
Temp. Measurement Range	0~650°C
Temp. Measurement Range	0~750°C
Material	316 Stainless Steel
Sheath	316 Stainless Steel
Sleeve	304 Stainless Steel
Heat Resistance Temp. of Sleeve	80°C
Lead Wire (Operating Temp. Range)	Silicon Coating (0~150°C)
Lead Wire Minimum Bending R	20

Type	Part Number	
	D	L Selection
MFSK	1.6	50
	3.2	100 150

Part Number Example

Part Number	-	L	-	F	-	Terminal
TCPF3.2		65				
TCKFF3.2		65		F4.5		Y

ⓘ Please refer to "Precautions for Use" in the Temperature Sensor Guide on P.3756.