

Temperature Sensors

Compact, Taper Screw, Flange, Sheath Type for Moving Parts

Be sure to refer to "Precautions for Use" in the Temperature Sensor Overview on P1653.

Compact

Type	Lead Wire Fixed	Lead Wire Configurable	Type of Temperature Sensor
TCKC	-	-	K Thermocouple
TCPC	-	TCPCF	Temperature Measuring Resistor (Pt100Ω)

TCKC (K Thermocouple)

TCPC, TCPCF (Temperature Measuring Resistor Pt100Ω)

Terminal Selection

- N (No Crimp Terminal)
- M (With Round Crimp Terminal)
- Y (With Crimp Spade)

Features: Protective Tube cannot be bent. 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.

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temperature Measurement Contact Point	Isolated Neutral Type
Temperature Measurement Range	0 ~ 250°C
Material	SUS304
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0 ~ 150°C)

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temperature Measurement Range	-50 ~ 250°C
Material	SUS304
Silicon Shrink Tube Heat Resistance Temperature	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50 ~ 150°C)

Lead Wire Fixed Type

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

Lead Wire Configurable Type

Part Number	Type	D	L Fixed	F 0.1m Increment	Terminal	Sensor Body Price					Additional Terminal Price (Body Price +)					
						F0.3~1.0	F1.1~2.0	F2.1~3.0	F3.1~4.0	F4.1~5.0	N	M	Y			
(Temperature Measuring Resistor)	TCPCF	3.2	100	0.3~5.0	N M Y											

Taper Screw

Type	Lead Wire Fixed	Lead Wire Configurable	Type of Temperature Sensor
TCKT	-	TCKTF	K Thermocouple
TCPT	-	TCPTF	Temperature Measuring Resistor (Pt100Ω)

TCKT, TCKTF (K Thermocouple)

TCPT, TCPTF (Temperature Measuring Resistor Pt100Ω)

Terminal Selection

- N (No Crimp Terminal)
- M (With Round Crimp Terminal)
- Y (With Crimp Spade)

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

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temperature Measurement Contact Point	Isolated Neutral Type
Temperature Measurement Range	0 ~ 250°C
Material	SUS304
Heat Resistance Temperature of Silicon Tube	150°C
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0~150°C)

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temperature Measurement Range	-50 ~ 250°C
Material	SUS304
Heat Resistance Temperature of Silicon Tube	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50~150°C)

Lead Wire Fixed Type

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

Lead Wire Configurable Type

Part Number	Type	D	L Fixed	F 0.1m Increment	Terminal	Sensor Body Price					Additional Terminal Price (Body Price +)				
						F0.3~1.0	F1.1~2.0	F2.1~3.0	F3.1~4.0	F4.1~5.0	N	M	Y		
(K Thermocouple)	TCKTF	3.2	65	0.3~5.0	N M Y										
(Temperature Measuring Resistor)	TCPTF														

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Flange

Type	Lead Wire Fixed	Lead Wire Configurable	Type of Temperature Sensor
TCKF	-	TCKFF	K Thermocouple
TCPF	-	-	Temperature Measuring Resistor (Pt100Ω)

TCKF, TCKFF (K Thermocouple)

TCPF (Temperature Measuring Resistor Pt100Ω)

Terminal Selection

- N (No Crimp Terminal)
- M (With Round Crimp Terminal)
- Y (With Crimp Spade)

Features: Protective Tube cannot be bent. It is a Flanged Compact Type having the flange soldered to itself and easy to attach to a device.

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temperature Measurement Contact Point	Isolated Neutral Type
Temperature Measurement Range	0 ~ 250°C
Material	SUS304
Heat Resistance Temperature of Silicon Tube	150°C
Lead Wire (Operating Temp. Range)	Glass Wool Coating (0~150°C)

Type of Device	Pt100Ω
Precision	JIS Class B
Lead Type	3-lead Type
Temperature Measurement Range	-50 ~ 250°C
Material	SUS304
Heat Resistance Temperature of Silicon Tube	150°C
Lead Wire (Operating Temp. Range)	Teflon Coating (-50~150°C)

Lead Wire Fixed Type

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

Lead Wire Configurable Type

Part Number	Type	D	L Fixed	F 0.1m Increment	Terminal	Sensor Body Price					Additional Terminal Price (Body Price +)				
						F0.3~1.0	F1.1~2.0	F2.1~3.0	F3.1~4.0	F4.1~5.0	N	M	Y		
(K Thermocouple)	TCKFF	3.2	65	0.3~5.0	N M Y										

Sheath Type for Moving Parts

MFSK (K Thermocouple)

Features: Highly flexible silicon covered lead wire is usable in bending applications. (Avoid excessive bending.)

Type of Thermocouple	K Thermocouple
Precision	JIS Class 2
Temperature Measurement Contact Point	Isolated Neutral Type
Temperature Measurement Range	0 ~ 650°C
Material	SUS316
Heat Resistance Temperature of Sleeve	80°C
Lead Wire (Operating Temp. Range)	Silicon Coating (0~150°C)
Lead Wire Minimum Bending R	20

Part Number	Type	D	L Selection	Unit Price		
				L50	L100	L150
MFSK		1.6	50			
		3.2	100			
			150			

Ordering Example

Part Number - L - F - Terminal

TCKC3.2 - 100

TCKTF3.2 - 65 - F2.5 - M

TCPC3.2 - 65

MFSK3.2 - 100