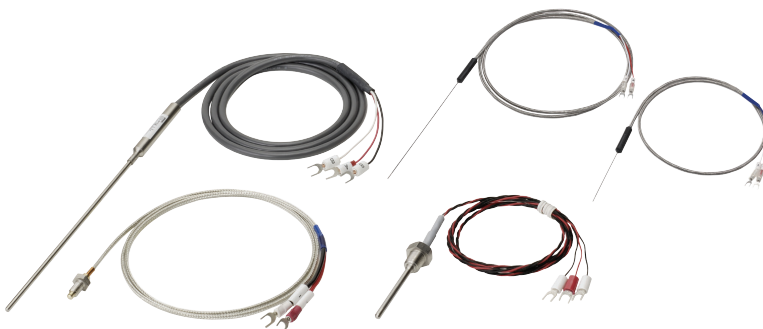



Temperature Sensor E52

CSM_E52_DS_E_22_3

A Wide Variety of High-precision Temperature Sensors



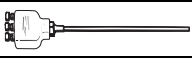



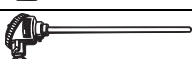
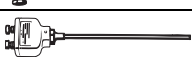
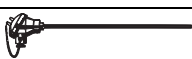
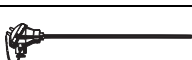




- Previous models with M3 screw connections have been joined by new models with ferrules to help reduce wiring work.
- A Temperature Sensor for Packaging Machines that accurately measures seal temperature has been added.
- The type, shape, length, and terminal shape can be selected to match the temperature to be measured, location, and environment.



 Refer to *Safety Precautions for All Temperature Controllers*.

Ordering Information

List of Models (Temperature Sensors)

Classification	Description	Model and appearance	Temperature range (See note 3.)	Element type	Conductor type	Class	Protective tubing material	Terminal type	Page	
General-purpose Models	Sheathed platinum resistance thermometer	E52-P□AY 	-196°C to 450°C	Pt100	3-conductor system	B	SUS316	Exposed lead wires	5	
		E52-P□C-N 					-196°C to 450°C	ASTM316L	Enclosed terminals	7
		E52-P□B-N 						Exposed terminals		
	Standard platinum resistance thermometer	E52-P□C-N 	0°C to 450°C			SUS316	Enclosed terminals	8		
	Sheathed thermocouple	E52-CA□AY E52-IC□AY 	0°C to 900°C	K (CA) J (IC)	Non-grounded type	2 (0.75)	ASTM316L	Exposed lead wires	11 to 12	
								E52-CA□B-N E52-IC□B-N 	Exposed terminals	16
									E52-CA□C-N E52-IC□C-N 	Enclosed terminals
		Standard thermocouple	E52-CA□B-N E52-IC□B-N 	0°C to 900°C	K (CA) J (IC)	2 (0.75)	SUS316	Exposed terminals		17
								E52-CA□C-N E52-IC□C-N 	Enclosed terminals	18
			E52-PR□C-N 	0°C to 1,400°C	R (PR)		2 (0.25)		JIS ceramic JIS special ceramic	Enclosed terminals
Low-cost Models	Low-cost platinum resistance thermometer	E52-P10AEY	0°C to 250°C	Pt100	3-conductor system	B	SUS316	Exposed lead wires	20	
		E52-P6DY	-50°C to 250°C				SUS304			
		E52-P6FY								
	Low-cost thermocouple	E52-CA□ASY E52-IC□ASY 	0°C to 400°C	K (CA) J (IC)	Non-grounded type	2 (0.75)			21	
								E52-CA1DY E52-IC1DY 	Grounded type	22
		E52-CA6F-N E52-CA6F-N-25 E52-IC6F-N E52-CA6D-N E52-CA6D-N-25 E52-IC6D-N 	0°C to 400°C	K (CA) J (IC)	Non-grounded type	2 (0.75)				23
								E52-CA10AE-N E52-IC10AE-N 	Non-grounded type	

Note: 1. Exclusive models are provided on the following page.

2. These tables provide general specifications only. Be sure to read the detailed specifications and precautions before use.

3. The temperature range varies with the material, thickness, construction, and element type of the protective tubing.

Exclusive Models

■ Thermocouples

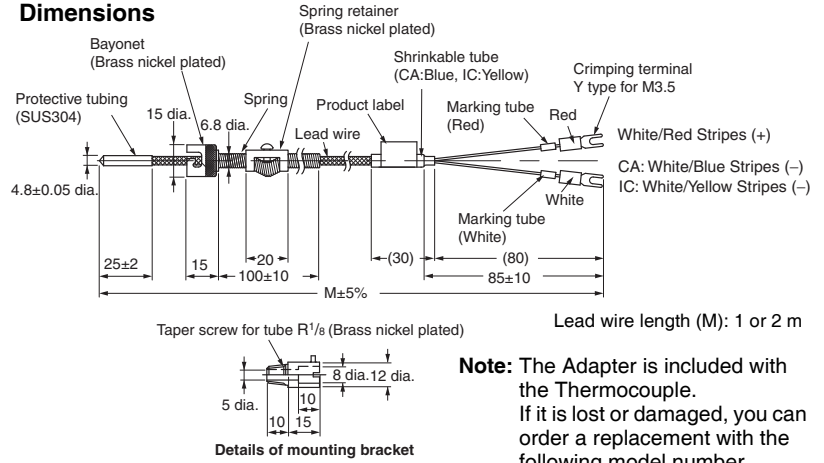
Thermocouples for Molding Machines

Specifications

Element type	K (CA), J (IC)
Element diameter	1.0 mm (single wire)
Class	Class 2 (0.75)
Protective tubing material	SUS304
Thermal contact	Grounded type
Temperature range	0°C to 350°C
Lead wire	Glass-covered stainless steel shielded thermocouple wire with 4 dia. 1/1.0 0°C to 180°C

E52-CA2GVY, E52-IC2GVY

Dimensions



Note: The Adapter is included with the Thermocouple. If it is lost or damaged, you can order a replacement with the following model number.
Adapter: Y92F-S1

Lead wire length (m)	Element type: K (CA)	Element type: J (IC)
	Model	
1	E52-CA2GVY 1M	E52-IC2GVY 1M
2	E52-CA2GVY 2M	E52-IC2GVY 2M
4	E52-CA2GVY 4M	E52-IC2GVY 4M
8	E52-CA2GVY 8M	E52-IC2GVY 8M

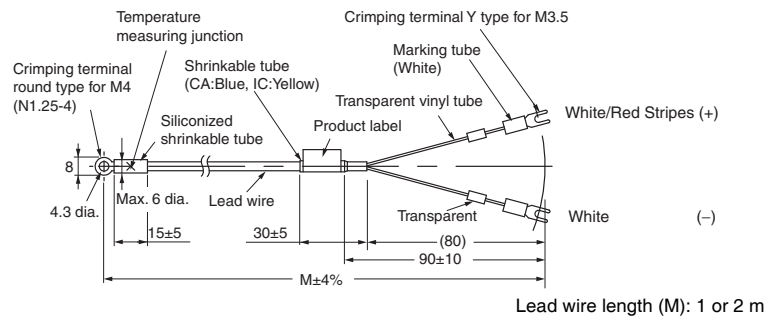
Thermocouples with Crimp Terminal

Specifications

Element type	K (CA), J (IC)
Element diameter	0.65 mm (single wire)
Class	Class 2 (0.75)
Thermal contact	Grounded type
Temperature range	0°C to 300°C
Lead wire	Glass-covered stainless steel shielded thermocouple wire with 4 dia. 1/1.0 0°C to 150°C
Terminal shape	Y-type crimp terminal for M3.5

E52-CA1GTY, E52-IC1GTY

Dimensions



Note: The E52-CA1GTY is also available with double elements. Refer to page 34 for details.

Lead wire length (m)	Element type: K (CA)	Element type: J (IC)
	Model	
1	E52-CA1GTY 1M	E52-IC1GTY 1M
2	E52-CA1GTY 2M	E52-IC1GTY 2M
4	E52-CA1GTY 4M	E52-IC1GTY 4M
8	E52-CA1GTY 8M	E52-IC1GTY 8M