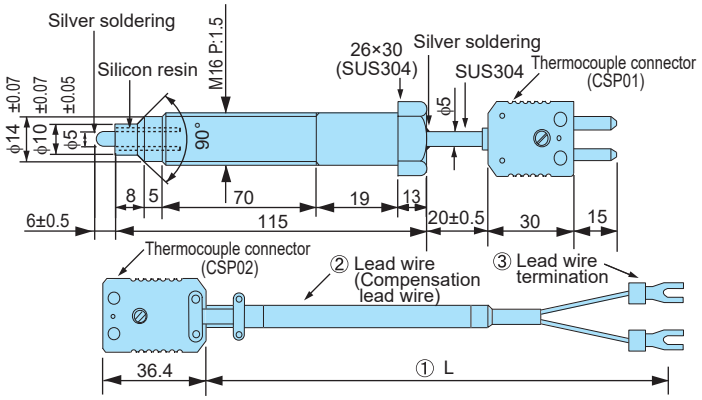
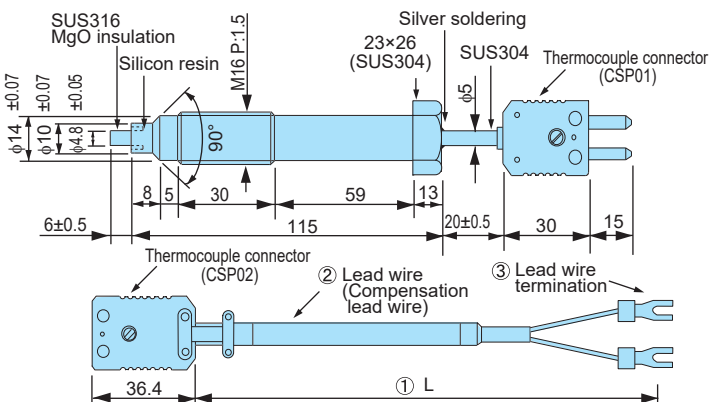
Thermocouples for Resin Temperature : T-260/T-270Z



T - 260 - L - □□□ - □ - □□
① ② ③ ④

① Lead wire length ③ Lead wire termination
② Lead protection ④ Thermocouple type

Example :T-260-2000-EXA-Y-K2



T - 270Z - L - □□□ - □ - □□
① ② ③ ④

① Lead wire length ③ Lead wire termination
② Lead protection ④ Thermocouple type

Example :T-270Z-2000-EXA-Y-K2

①	Lead wire length	Specify length by “mm”

② Lead protection

Code	Details
EXA	Element wire (Fiberglass with stainless steel)
EXB	Element wire (Fiberglass)
EXE	Element wire [PVC (polyvinyl chloride) with copper wire braided] (Only for Type K)

③ Lead wire termination

Code	Details	Code	Details
Y	Spade lugs for JIS standard "M3" size screw	N	No terminal lugs *terminal soldered
R	Ring lugs for JIS standard "M4" size screw		
M	Metal connector (SCK-1602-P)		

④ Thermocouple type

T-260

Code	Details
K2	Type K (Chromel-Alumel)
J2	Type J (Iron-Constantan)

T-270Z

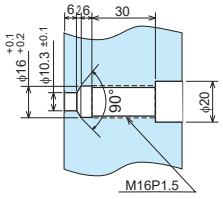
Code	Details
K	Type K (Chromel-Alumel)
J	Type J (Iron-Constantan)

Specifications

Class : class 2
Measuring junction : Grounded (T-260 is available for ungrounded type. Please specify when you order)
Maximum temperature for use : 400ºC
Material of protection tube : SUS304(T-260), SUS316(T-270Z)
Material body : SUS304
withstand pressure : 70MPa (T-260, at 250ºC), 100MPa (T-270Z, at 250ºC)

Reference

Mounting hole (Unit:mm)



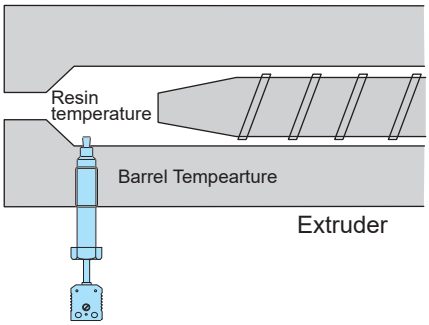
Select codes from the below when order lead wires only.

Specifications		Model and Suffix Code W-BL- −□□ □□□−□□□−□ −□□□□□□				
①	Thermocouple type	Type K (class 2) Type J (class 2)	K2 J2			
②	Lead protection	Fiberglass with stainless steel Fiberglass PVC (polyvinyl chloride) Silicone rubber	EXA EXB EXD EXE			
③	Thermocouple connector	Thermocouple connector CSP02 jack (with clamp)	TSA			
④	Lead wire termination	Spade lugs for JIS standard "M3" size screw Spade lugs for JIS standard "M4" size screw Ring lugs for JIS standard "M3" size screw Ring lugs for JIS standard "M4" size screw No terminal lugs No terminal lugs *terminal soldered		Y3 Y4 R3 R4 C N		
⑤	Lead wire length (unit: mm)	Specify length by "mm" (100mm each)				□□□□□□

Thermocouple for Resin Temperature

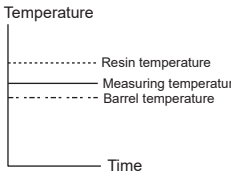
Accurate measurement of resin temperature was difficult in general as there are many thermal disturbances as well as high temperature and high pressure.
T-260/T-270Z has an excellent resistance against high temperature and high pressure. Moreover, T-270Z can measure resin temperature change even there are thermal disturbances because of its Zero-Heat-Flow structure. That leads to be stable resin temperature control.

Because the barrel temperature will be transferred to the protection tube, traditional sensors negatively effects on their measurements. T-270Z realizes its accurate measurement of the resin temperature by compensating the barrel temperature.

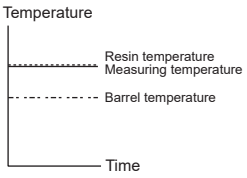


Condition where resin temperature is higher than barrel temperature

Conventional sensor



T-270Z



When the resin temperature is lower than the barrel temperature, traditional sensors detects a slightly higher degree than the actual resin temperature.