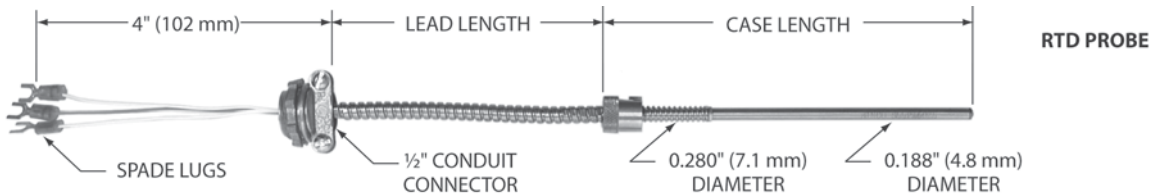


# Bayonet Mount Tip-sensitive RTDs



## Overview

Bayonet mounting provides easy and inexpensive spring-loaded installation of probes into solids. All models have a copper alloy tip for fast time response and increased tip sensitivity.

See page 4-9 for bayonet fittings or page 4-10 for metric fittings.

- Lockcap and spring for twist-and-release spring-loading
- Accurate sensing to 260°C (500°F)

## Specifications

**Temperature range:** -50 to 260°C (-58 to 500°F).

**Case:** Stainless steel with copper alloy tip.  
 Minimum case length: 3.0" (76.2 mm).  
 Maximum case length: 48" (1220 mm), longer on special order.

**Time constant:** 2 seconds typical in moving water.

**Leads:** 2, 3, or 4 leadwires, AWG 22, stranded copper with PTFE insulation, stainless steel armor, and 1/2" conduit connector. For 2-lead RTDs add 0.03 Ω per foot of combined case and lead length to element tolerance.

**Insulation resistance:** 1000 megohms min. at 500 VDC, leads to case.

**Vibration:** Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202, Method 204, Test Condition D.

**Shock:** Withstands 100 G's minimum sine wave shock of 8 milliseconds duration.

## Model numbers

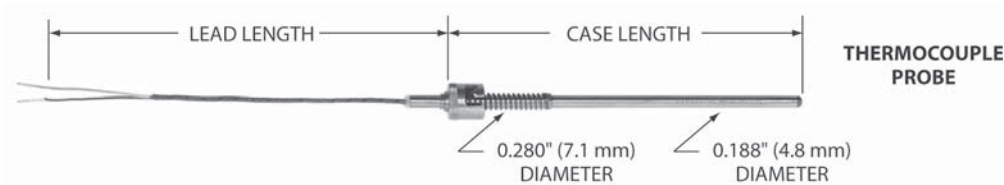
RTD sensing element		Model
Platinum (0.00392 TCR)	100 Ω ±0.5% at 0°C	S44PA
Platinum (0.00385 TCR) (Meets EN60751, Class B)	100 Ω ±0.1% at 0°C	S844PD
Platinum (0.00385 TCR)	100 Ω ±0.5% at 0°C	S874PE
Copper (0.00427 TCR)	10 Ω ±0.2% at 25°C	S44CA
Nickel (0.00672 TCR)	120 Ω ±0.5% at 0°C	S44NA

## Specification and order options

S874PE	Model number from table
110	Case length: Specify in 0.1" increments (Ex: 110 = 11.0 inches)
Y	Number of leads: Y = 2 leads Z = 3 leads (required for copper elements) X = 4 leads (PD only)
36	Lead length in inches
S874PE110Y36 = Sample part number	

**Specify and order products at:**  
[www.minco.com/sensors\\_config](http://www.minco.com/sensors_config)

# Bayonet Mount Tip-sensitive Thermocouples



PROBES

## Overview

Bayonet mounting provides easy and inexpensive spring-loaded installation of probes into solids. All models have a copper alloy tip for fast time response and increased tip sensitivity.

See page 4-9 for bayonet fittings or page 4-10 for metric fittings.

- Lockcap and spring for twist-and-release spring-loading
- Accurate sensing to 260°C (500°F)

## Specifications

**Temperature range:** -50 to 260°C (-58 to 500°F).

**Case:** Stainless steel with copper alloy tip.  
 Minimum case length: 3.0" (76.2 mm).  
 Maximum case length: 48" (1220 mm), longer on special order.

**Leads:** Solid thermocouple wire, AWG 20 (single) or AWG 24 (dual). Specify PTFE insulation, glass braid insulation, stainless steel braid over glass braid, or stainless steel armor over PTFE.

**Time constant:** Typical value in moving water:  
 Grounded junction: 1.5 seconds.  
 Ungrounded junction: 7 seconds.

**Insulation resistance:** 10 megohms minimum at 100 VDC, leads to case, ungrounded junctions only.

**Vibration:** Withstands 10 to 2000 Hz at 20 G's minimum per MIL-STD-202, Method 204, Test Condition D.

**Shock:** Withstands 100 G's minimum sine wave shock of 8 milliseconds duration.

## Specification and order options

TC360	<b>Model number:</b> TC360 = Single junction TC361 = Dual junction
E	<b>Junction type:</b> E = Chromel-Constantan J = Iron-Constantan K = Chromel-Alumel T = Copper-Constantan
G	<b>Junction grounding:</b> G = Grounded U = Ungrounded
95	<b>Case length:</b> Specify in 0.1" increments (Ex: 95 = 9.5 inches)
A	<b>Covering over leadwires:</b> T = PTFE only G = Glass braid A = Stainless steel armor S = Stainless steel overbraid
12	<b>Lead length in inches</b>
TC360EG95A12 = Sample part number	

**Specify and order products at:**  
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*Specifications subject to change*

