

# prosense® Thermocouple Probes with Cuttable Length

**THMJ-V24L06-01**

## Overview

- Type J or K thermocouple elements to meet many temperature sensing applications
- 1/4" diameter, 316 SS sheath to protect against harsh environments
- 24" probe length can be cut using an ordinary tubing cutter to adapt to the application
- Mounting is accomplished using a variety of ProSense compression fittings
- 2-foot fiberglass insulated leadwires
- Made in the USA

## Thermocouple Probes with Cuttable Length

| Part Number                  | Pcs/Pkg | Wt (lb) | Price   | Type | Probe Diameter (O.D) | Probe Length                   | Probe Material      | Temperature Sensing Range | Mounting   |
|------------------------------|---------|---------|---------|------|----------------------|--------------------------------|---------------------|---------------------------|--|
| <b><u>THMJ-V24L06-01</u></b> | 1       | 0.44    | \$41.00 | J    | 1/4"                 | 24"<br>(4" minimum cut length) | 316 stainless steel | -18 to 482°C (0 to 900°F) | ProSense compression fitting(see accessories purchased separately) |
| <b><u>THMK-V24L06-01</u></b> | 1       | 0.44    | \$43.50 | K    |                      |                                |                     |                           |  |

## Technical Specifications

|   |  |
|---|--|
| <b>Junction Type</b>                      | Ungrounded   |
| <b>ASTM E230 Standard Limits of Error</b> | ±2.2°C (±4.0°F) or 0.75%, whichever is greater                           |
| <b>Probe</b>                              | ø1/4", 316 stainless steel sheath, single thermocouple element           |
| <b>Probe Minimum Bend Radius</b>          | Not bendable   |
| <b>Minimum Installation Depth</b>         | 3" (76 mm)   |
| <b>Response Time</b>                      | 2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839         |
| <b>Wiring</b>                             | 2 foot solid 20 AWG wire leads with stripped ends, fiberglass insulation |



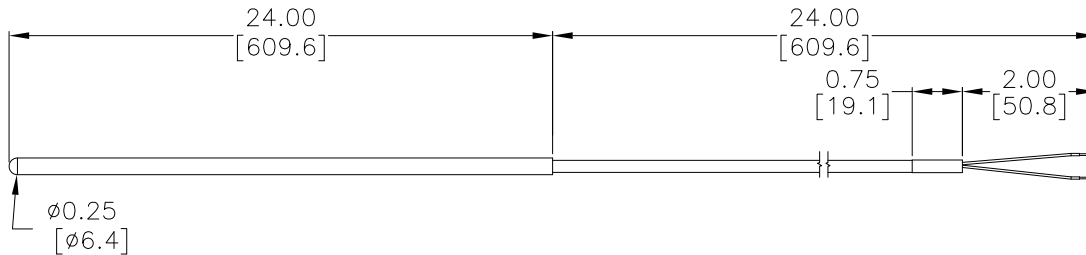
*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

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## Dimensions

inches [mm]

THMJ & K - V24L06-01



## Cutting Instructions

1. Remove the plastic retainer mounted to the top of outer metal tube.
2. Remove the inner sensing element and wires to prevent possible damage while cutting.
3. Cut the tube to the desired length and remove all burrs or sharp edges.
4. Reinstall the sensing element and plastic retainer.

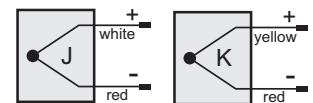
Note: Ensure sensing element is fully seated at the base of the outer tube. If outer tube is compressed during installation it may not be possible to remove the sensing element.

## Wiring Information

**Type J: (+) white (-) red**

**Type K: (+) yellow (-) red**

- Must use thermocouple extension lead wire
- Observe polarity when making connections
- Do not use standard wire nuts



# prosense® Thermocouple Probes with Cuttable Length - Accessories

## Accessories

| Part No.                          | Description  | Pcs/Pkg | Price   |
|-----------------------------------|--|---------|---------|
| <a href="#"><u>BCF14-125N</u></a> | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread   | 1       | \$3.25  |
| <a href="#"><u>BCF14-25N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread   | 1       | \$4.25  |
| <a href="#"><u>BCF14-50N</u></a>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread   | 1       | \$6.50  |
| <a href="#"><u>CF14-125N</u></a>  | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread   | 1       | \$8.00  |
| <a href="#"><u>CF14-25N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread   | 1       | \$9.25  |
| <a href="#"><u>CF14-50N</u></a>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread   | 1       | \$14.00 |
| <a href="#"><u>CFTF-14</u></a>    | Teflon ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes   | 5       | \$7.75  |
| <a href="#"><u>THMJ-SP</u></a>    | Thermocouple connector, Type J, standard round pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 14 AWG maximum (2.0 mm) wire size        | 1       | \$4.50  |
| <a href="#"><u>THMJ-SJ</u></a>    | Thermocouple connector, Type J, standard round pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 14 AWG maximum (2.0 mm) wire size        | 1       | \$5.75  |
| <a href="#"><u>THMK-SP</u></a>    | Thermocouple connector, Type K, standard round pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 14 AWG maximum (2.0 mm) wire size       | 1       | \$4.50  |
| <a href="#"><u>THMK-SJ</u></a>    | Thermocouple connector, Type K, standard round pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 14 AWG maximum (2.0 mm) wire size       | 1       | \$5.50  |
| <a href="#"><u>THMK-HSP</u></a>   | Thermocouple connector, Type K, high-temperature standard round pin plug, maximum continuous temperature 662°F (350°C), thermoset brown body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size        | 1       | \$14.00 |
| <a href="#"><u>THMK-HSJ</u></a>   | Thermocouple connector, Type K, high-temperature standard round pin jack, maximum continuous temperature 662°F (350°C), thermoset brown body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size        | 1       | \$16.50 |
| <a href="#"><u>THMJ-MP</u></a>    | Thermocouple connector, Type J, miniature flat pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size        | 1       | \$3.75  |
| <a href="#"><u>THMJ-MJ</u></a>    | Thermocouple connector, Type J, miniature flat pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size        | 1       | \$4.25  |
| <a href="#"><u>THMK-MP</u></a>    | Thermocouple connector, Type K, miniature flat pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size       | 1       | \$4.00  |
| <a href="#"><u>THMK-MJ</u></a>    | Thermocouple connector, Type K, miniature flat pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size       | 1       | \$4.25  |
| <a href="#"><u>WCB-S</u></a>      | Wire / cable clamp bracket for use with standard thermocouple and RTD connectors   | 4       | \$12.00 |
| <a href="#"><u>WCB-M</u></a>      | Wire / cable clamp bracket for use with miniature thermocouple connectors  | 4       | \$12.00 |
| <a href="#"><u>THMJ-SPJ</u></a>   | Thermocouple connector, Type J, standard round pin panel jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size  | 1       | \$11.00 |
| <a href="#"><u>THMK-SPJ</u></a>   | Thermocouple connector, Type K, standard round pin panel jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size | 1       | \$10.50 |
| <a href="#"><u>THMJ-MPJ</u></a>   | Thermocouple connector, Type J, miniature flat pin panel jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size  | 1       | \$8.25  |
| <a href="#"><u>THMK-MPJ</u></a>   | Thermocouple connector, Type K, miniature flat pin panel jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size | 1       | \$9.00  |

Note: Thermocouple extension lead wire available at

[www.automationdirect.com](http://www.automationdirect.com)

See end of section for full listing of accessories and dimension information.

\*Working pressure of compression fitting should not exceed 500 psi.

However we recommend any pressure application use a thermowell

[THMJ-SPJ](#)



[CF14-25N](#)



[THMJ-SP](#)



[THMJ-SJ](#)

