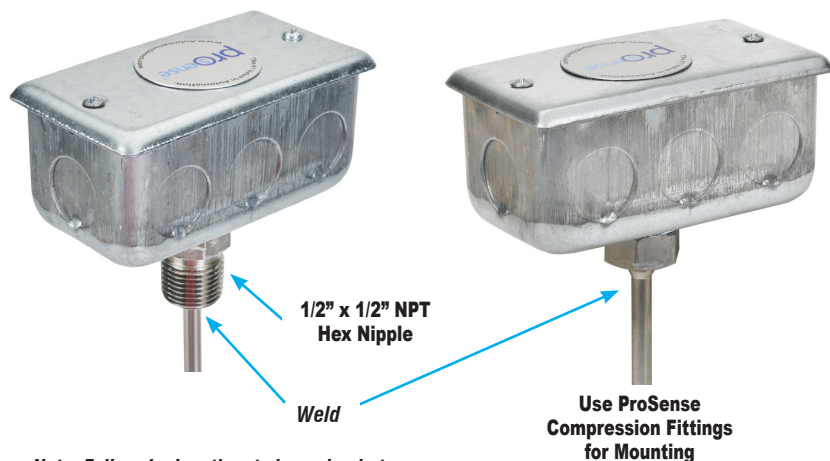


# prosense® 10K-3 Thermistor Probes with Junction Box

[NTC10K3-JB06-01](#)[NTC10K3-JB06-02](#)

Note: Full probe length not shown in photos

## Overview

- Probe
  - NTC 10k Thermistor Type 3
  - 1/4" diameter, 316 SS sealed sheath to protect against harsh environments
  - 6", 12" or 18" probe length
- 2" X 4" Junction Box
  - Nine, 1/2" knockouts for conduit and other connections
  - Easy install cover with two screws to keep cover securely closed
- Wiring
  - 2 feet of cable provided with 2 inches of 24AWG wire pre-stripped 1/4 inch and tinned
- Made in the USA



## 10K-3 Thermistor Probes with Junction Box

| Part Number                     | Pcs/Pkg | Wt (lb) | Price   | Drawing Link        | Type                     | Probe Diameter (O.D.) | Probe Length | Temperature Sensing Range     | Mounting                                                              |
|---------------------------------|---------|---------|---------|---------------------|--------------------------|-----------------------|--------------|-------------------------------|-----------------------------------------------------------------------|
| <a href="#">NTC10K3-JB06-01</a> | 1       | 0.89    | \$57.00 | <a href="#">PDF</a> | 10K-AN Type 3 Thermistor | 1/4"                  | 6"           | -40 to 125° C (-40 to 257° F) | Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS                           |
| <a href="#">NTC10K3-JB12-01</a> |         | 0.96    | \$59.50 | <a href="#">PDF</a> |                          |                       | 12"          |                               |                                                                       |
| <a href="#">NTC10K3-JB18-01</a> |         | 1.0     | \$62.00 | <a href="#">PDF</a> |                          |                       | 18"          |                               |                                                                       |
| <a href="#">NTC10K3-JB06-02</a> |         | 0.81    | \$51.50 | <a href="#">PDF</a> |                          |                       | 6"           |                               | ProSense compression fitting (see accessories - purchased separately) |
| <a href="#">NTC10K3-JB12-02</a> |         | 0.86    | \$53.50 | <a href="#">PDF</a> |                          |                       | 12"          |                               |                                                                       |
| <a href="#">NTC10K3-JB18-02</a> |         | 0.93    | \$56.00 | <a href="#">PDF</a> |                          |                       | 18"          |                               |                                                                       |

## Technical Specifications

|                                      |                                                                                               |
|--------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Sensing Element</b>               | Epoxy Coated NTC Thermistor                                                                   |
| <b>No-Load Resistance</b>            | 10kΩ at 25°C                                                                                  |
| <b>Accuracy</b>                      | ± 0.2°C from 0°C to 70°C                                                                      |
| <b>Probe</b>                         | ø1/4", 316 stainless steel sheath                                                             |
| <b>Minimum Installation Depth</b>    | 3" (76 mm)                                                                                    |
| <b>Junction Box</b>                  | 2" X 4" galvanized steel junction box with multiple conduit openings, max temp. 221°F (105°C) |
| <b>Sensing Element Response Time</b> | Approximately 1 second*                                                                       |
| <b>Wiring</b>                        | 24 inches of PVC cable inside cover with 2 inches of 24AWG wire stripped 1/4 inch and tinned  |

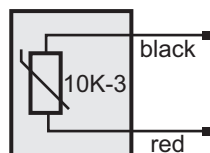
\* The sensing element has an approximate response time of 1 second in a well stirred liquid bath. Different constructions will have different thermal responses.



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

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## Wiring Information



- no polarity

## Accessories

| Part No.                 | Description                                                                                                  | Pcs/Pkg | Price   |
|--------------------------|--------------------------------------------------------------------------------------------------------------|---------|---------|
| <b><u>BCF14-125N</u></b> | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread               | 1       | \$3.25  |
| <b><u>BCF14-25N</u></b>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread               | 1       | \$4.25  |
| <b><u>BCF14-50N</u></b>  | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread               | 1       | \$6.50  |
| <b><u>CF14-125N</u></b>  | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread | 1       | \$8.00  |
| <b><u>CF14-25N</u></b>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread | 1       | \$9.25  |
| <b><u>CF14-50N</u></b>   | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread | 1       | \$14.00 |
| <b><u>CFTF-14</u></b>    | Teflon ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes         | 5       | \$7.75  |

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