

prosense® 10K-3 Thermistor Cuttable Length Probe



NTC10K3-V24L06-01

Overview

- NTC 10k Thermistor Type 3
- 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 PVC cable with 2 inches of 24AWG wire stripped 1/4 inch and tinned.
- Made in the USA



10K-3 Thermistor Cuttable Length Probe

Part Number	Pcs/Pkg	Wt (lb)	Price	Drawing Link	Type	Probe Diameter (O.D.)	Probe Length	Probe Material	Temperature Sensing Range	Mounting
NTC10K3-V24L06-01	1	0.22	\$39.25	PDF	10K-AN Type 3 Thermistor	1/4"	24" (4" minimum cut length)	316 stainless steel	-40 to 125° C (-40 to 257° F)	ProSense compression fitting(see accessories purchased separately)

Technical Specifications

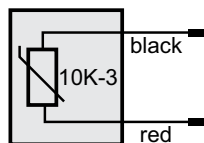
Sensing Element	Epoxy Coated NTC Thermistor
No-Load Resistance	10kΩ at 25°C
Accuracy	± 0.2°C from 0°C to 70°C
Probe	1/4" O.D., 316 stainless steel sheath
Minimum Installation Depth	3" (76mm)
Probe Minimum Bend Radius	Not bendable
Sensing Element Response Time	Approximately 1 second*
Wiring	24 inches of PVC cable 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.

Wiring Information



- No polarity

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.



10K-3 Thermistor Cuttable Length Probe - Accessories

Accessories

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

* Working pressure of compression fitting should not exceed 500 psi. However, we recommend any pressure application use a thermowell.

CFTF-14



CF14-50N



CF14-25N



CF14-125N



Stainless Steel Compression Fittings

BCF14-50N



BCF14-25N



BCF14-125N



Brass Compression Fittings