Orsense Thermocouple Probes with Cuttable Length



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	Туре	Probe Diameter (O.D)	Probe Length	Probe Material	Temperature Sensing Range	Mounting			
THMJ-V24L06-01	1	0.44	\$41.00	J	1/4"	24" (4" minimum cut length)	316 stainless steel	-18 to 482°C (0 to 900°F)	ProSense compression fitting(see accessories purchased separately)			
<u>THMK-V24L06-01</u>	1	0.44	\$43.50	К								

Technical Specifications							
Junction Type	Ungrounded						
ASTM E230 Standard Limits of Error	±2.2°C (±4.0°F) or 0.75%, whichever is greater						
Probe	ø1/4", 316 stainless steel sheath, single thermocouple element						
Probe Minimum Bend Radius	Not bendable						
Minimum Installation Depth	3" (76 mm)						
Response Time	2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839						
Wiring	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.

www.automationdirect.com

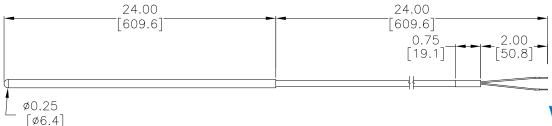


Sense Thermocouple Probes with Cuttable Length

Dimensions

inches [mm]

THMJ & K - V24L06-01



Cutting Instructions

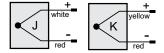
- 1. Remove the plastic retainer mounted to the top of outer metal tube.
- 2. Remove the inner sensing element and wires to prevent possible damage while cutting.
- 3. Cut the tube to the desired length and remove all burrs or sharp edges.
- 4. Reinstall the sensing element and plastic retainer.

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



Sense Thermocouple Probes with Cuttable Length - Accessories

Accessories

Part No.	Description	Pcs/Pkg	Price	
BCF14-125N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch NPT male thread			
BCF14-25N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch NPT male thread			
BCF14-50N	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch NPT male thread			
CF14-125N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes,1/8 inch NPT male thread	1	\$8.00	
CF14-25N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes,1/4 inch NPT male thread	1	\$9.25	
CF14-50N	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes,1/2 inch NPT male thread	1	\$14.00	
CFTF-14	Teflon ferrule for brass or stainless steel compression fittings and 1/4 diameter temperature probes	5	\$7.75	
THMJ-SP	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	
<u>THMJ-SJ</u>	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	
THMK-SP	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	
THMK-SJ	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	
THMK-HSP	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			
THMK-HSJ	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	
THMJ-MP	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	
THMJ-MJ	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			
<u>ТНМК-МР</u>	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	
THMK-MJ	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	
WCB-S	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$12.00	
WCB-M	Wire / cable clamp bracket for use with miniature thermocouple connectors	4	\$12.00	
THMJ-SPJ	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	
THMK-SPJ	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	
THMJ-MPJ	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	
THMK-MPJ	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 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







THMJ-SP



THMJ-SJ

