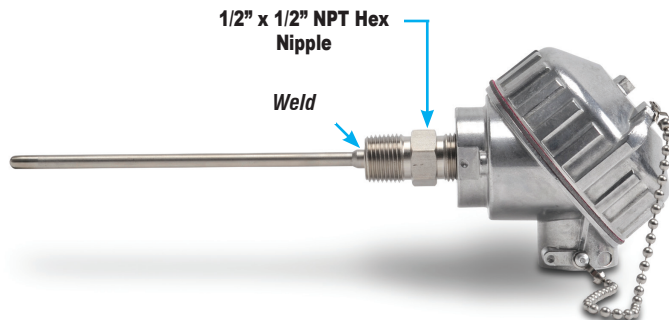


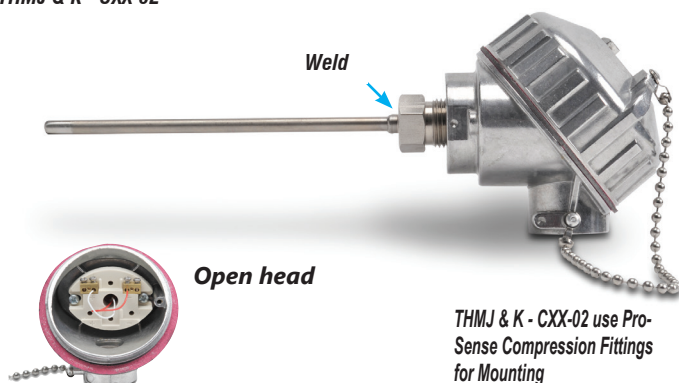
# prosense® Thermocouple Probes with Connection Head

## Overview

THMJ &amp; K - CXX-01 &amp; 04



THMJ &amp; K - CXX-02



- Probe
  - Type J or K thermocouple elements to meet many temperature sensing applications
  - 1/4" diameter, 316 SS or Inconel Alloy 600 sealed sheath to protect against harsh environments
  - Magnesium Oxide (MgO) insulation provides vibration dampening and protection against thermal shock
  - Bendable to adapt to installation requirements
  - 6", 12" or 18" probe length
- Connection Head
  - Cast aluminum NEMA 4X, IP66 screw cover head with captive gasket
  - One turn cover removal & installation eliminates cross threading and saves time
  - 3/4" NPT conduit opening with internal stop to prevent overtightening and installation damage
  - Gripping ribs on cover edge
  - Stainless steel cover chain
- Wiring
  - Ceramic terminal base
  - Brass terminals with stainless steel screws eliminate the need to wrap connections around screws
  - Elevated terminal block for easy wire termination
- Made in the USA

## Thermocouple Probes with Connection Head - Types J and K

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Probe Diameter (O.D.)	Probe Length	Probe Material	Temperature Sensing Range	Mounting	
<a href="#">THMJ-C06-01</a>	1	1.3	\$,-08jl:	J	1/4"	6"	316 stainless steel	0 to 720°C (32 to 1330°F)	Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS	
<a href="#">THMJ-C12-01</a>			\$,-08j,:	J		12"				
<a href="#">THMJ-C18-01</a>			\$08k1:	J		18"				
<a href="#">THMK-C06-01</a>			\$08k3:	K		6"		0 to 927°C (32 to 1700°F)		
<a href="#">THMK-C12-01</a>			\$08k5:	K		12				
<a href="#">THMK-C18-01</a>			\$08k7:	K		18"				
<a href="#">THMJ-C06-02</a>			\$-08j?:	J		6"	Inconel Alloy 600	0 to 720°C (32 to 1330°F)	ProSense compression fitting (see accessories - purchased separately)	
<a href="#">THMJ-C12-02</a>			\$08k0:	J		12"				
<a href="#">THMJ-C18-02</a>			\$08k2:	J		18"				
<a href="#">THMK-C06-02</a>			\$08k4:	K		6"		0 to 927°C (32 to 1700°F)		
<a href="#">THMK-C12-02</a>			\$08k6:	K		12"				
<a href="#">THMK-C18-02</a>			\$08k8:	K		18"				
<a href="#">THMK-C06-04</a>			\$,0d!#:	K		6"		Inconel Alloy 600	0 to 1149°C (32 to 2100°F)	Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS
<a href="#">THMK-C12-04</a>			\$:,0d!l:	K		12"				
<a href="#">THMK-C18-04</a>			\$,0d!?:	K		18"				

## Technical Specifications

Junction Type	Ungrounded
ASTM E230 Standard Limits of Error	±2.2°C (±4.0°F) or 0.75%, whichever is greater
Probe	4", 316 stainless steel or Inconel Alloy 600 sheath, single thermocouple element is embedded in MgO powder
Probe Minimum Bend Radius	2 x sheath diameter
Minimum Installation Depth	3" (76 mm)
Connection Head	Die-cast aluminum, screw cover with stainless steel chain, compressed graphite gasket, NEMA 4X, IP66, 3/4" NPT conduit opening, max temp. 400°F (204°C)
Response Time	2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839
Wiring	Ceramic terminal base with brass terminals and stainless steel screws (Recommended tightening torque 3-4 lb-in)



Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured. Not designed for use in a thermowell. Use spring-loaded probe when installing in a thermowell.

# prosense® Thermocouple Probes with Connection Head

## Dimensions

inches [mm]

### THMJ & K - CXX-01 & 04

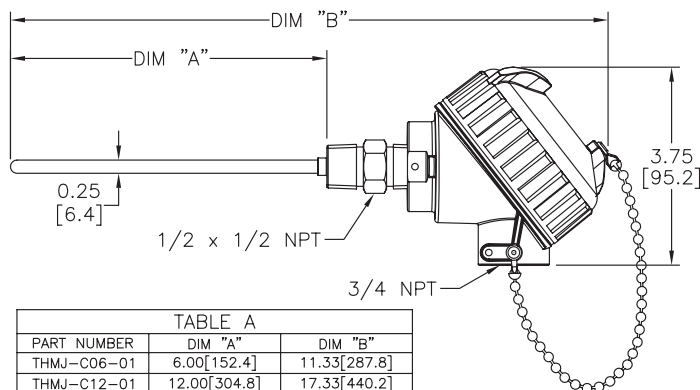
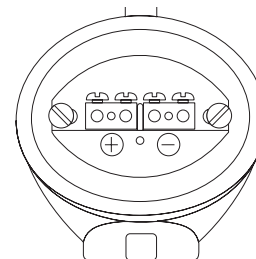


TABLE A		
PART NUMBER	DIM "A"	DIM "B"
THMJ-C06-01	6.00[152.4]	11.33[287.8]
THMJ-C12-01	12.00[304.8]	17.33[440.2]
THMJ-C18-01	18.00[457.2]	23.33[592.6]
THMK-C06-01	6.00[152.4]	11.33[287.8]
THMK-C12-01	12.00[304.8]	17.33[440.2]
THMK-C18-01	18.00[457.2]	23.33[592.6]
THMK-C06-04	6.00[152.4]	11.33[287.8]
THMK-C12-04	12.00[304.8]	17.33[440.2]
THMK-C18-04	18.00[457.2]	23.33[592.6]

## 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
- Recommended screw terminal tightening torque 3-4 lb-in

### THMJ & K - CXX-02

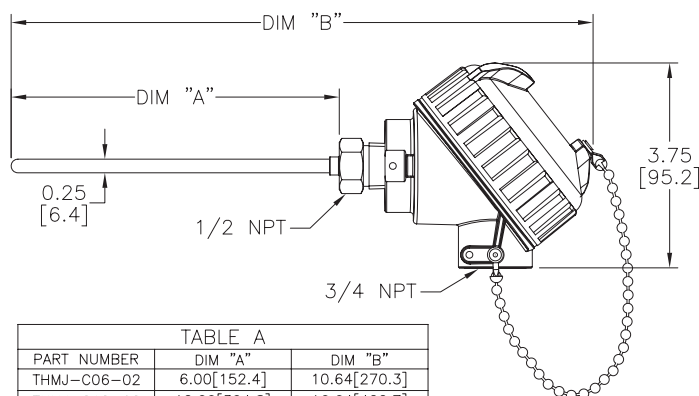
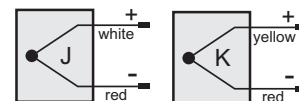


TABLE A		
PART NUMBER	DIM "A"	DIM "B"
THMJ-C06-02	6.00[152.4]	10.64[270.3]
THMJ-C12-02	12.00[304.8]	16.64[422.7]
THMJ-C18-02	18.00[457.2]	22.64[575.1]
THMK-C06-02	6.00[152.4]	10.64[270.3]
THMK-C12-02	12.00[304.8]	16.64[422.7]
THMK-C18-02	18.00[457.2]	22.64[575.1]



## Accessories

Part No.	Description	Pcs/Pkg	Price
<b>BCF14-125N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch male thread	1	\$ekq:
<b>BCF14-25N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch male thread	1	\$eks:
<b>BCF14-50N</b>	Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch male thread	1	\$ekt:
<b>CF14-125N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch male thread	1	\$ekj:
<b>CF14-25N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch male thread	1	\$ekj:
<b>CF14-50N</b>	Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch male thread	1	\$0ek_:
<b>CFTF-14</b>	Teflon ferrule for brass or stainless steel compression fittings and 1/4 inch diameter temperature probes	5	\$,ea!:

Note: Full listing of accessories available at the end of this section. Thermocouple extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com).