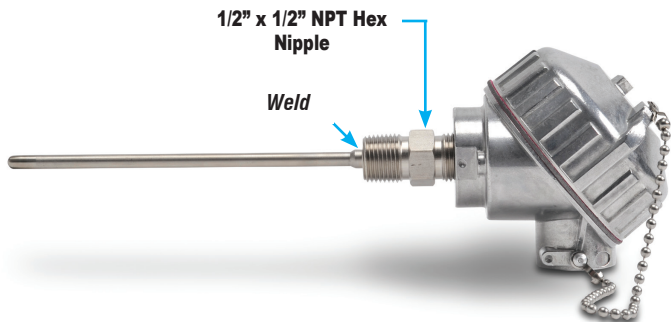


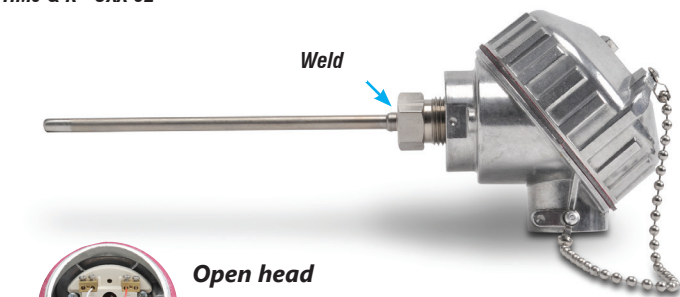
proSense® Thermocouple Probes with Connection Head

Overview

THMJ & K - CXX-01 & 04



THMJ & K - CXX-02



THMJ & K - CXX-02 use ProSense Compression Fittings for Mounting

- 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 |
|-------------|---------|---------|---------|------|-----------------------|--------------|---------------------|-------------------------------|---|
| THMJ-C06-01 | 1 | 1.3 | \$72.00 | 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 |
| THMJ-C12-01 | | | \$77.00 | J | | 12" | | | |
| THMJ-C18-01 | | | \$80.00 | J | | 18" | | | |
| THMK-C06-01 | | | \$72.00 | K | | 6" | | | |
| THMK-C12-01 | | | \$77.00 | K | | 12" | | | |
| THMK-C18-01 | | | \$80.00 | K | | 18" | | | |
| THMJ-C06-02 | | | \$69.00 | J | | 6" | Inconel Alloy 600 | 0 to 720°C (32 to 1330°F) | ProSense compression fitting (see accessories - purchased separately) |
| THMJ-C12-02 | | | \$70.00 | J | | 12" | | | |
| THMJ-C18-02 | | | \$71.00 | J | | 18" | | | |
| THMK-C06-02 | | | \$69.00 | K | | 6" | | | |
| THMK-C12-02 | | | \$70.00 | K | | 12" | | | |
| THMK-C18-02 | | | \$71.00 | K | | 18" | | | |
| THMK-C06-04 | | | \$75.00 | K | | 6" | Inconel Alloy 600 | 0 to 1149°C (32 to 2100°F) | Integral 1/2" x 1/2" NPT Hex Nipple, 316 SS |
| THMK-C12-04 | | | \$85.00 | K | | 12" | | | |
| THMK-C18-04 | | | \$93.00 | 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) |



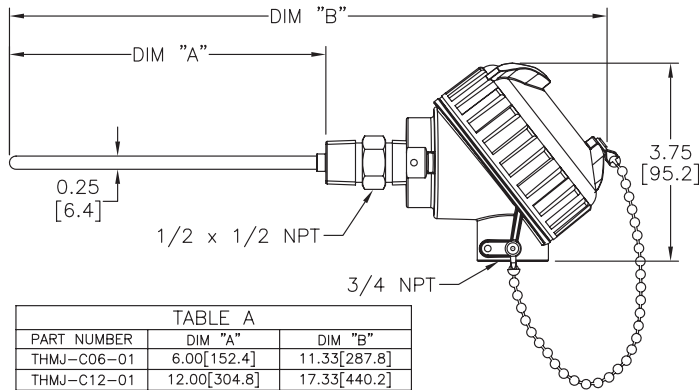
Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured. Not designed for use in a thermowell. Use spring-loaded probe when installing in a thermowell.

prosense® Thermocouple Probes with Connection Head

Dimensions

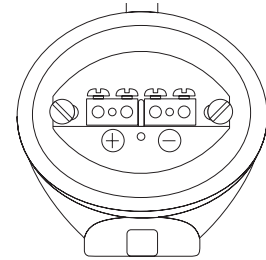
inches [mm]

THMJ & K - CXX-01 & 04



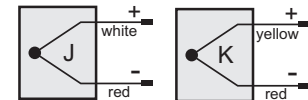
| TABLE A | | |
|-------------|--------------|--------------|
| PART NUMBER | DIM "A" | DIM "B" |
| THMJ-C06-01 | 6.00[152.4] | 11.33[287.8] |
| THMJ-C12-01 | 12.00[304.8] | 17.33[440.2] |
| THMJ-C18-01 | 18.00[457.2] | 23.33[592.6] |
| THMK-C06-01 | 6.00[152.4] | 11.33[287.8] |
| THMK-C12-01 | 12.00[304.8]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

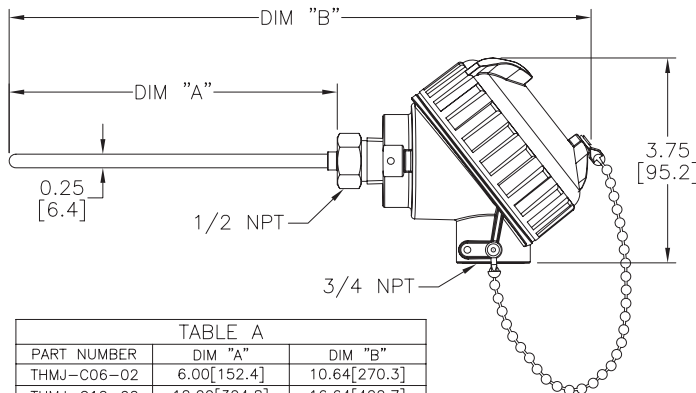


Type J: (+) white (-) red
Type K: (+) yellow (-) red

- 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 |
|-------------------|---|---------|---------|
| BCF14-125N | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/8 inch male thread | 1 | \$3.25 |
| BCF14-25N | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/4 inch male thread | 1 | \$4.25 |
| BCF14-50N | Compression fitting, brass, for 1/4 inch diameter temperature probes, 1/2 inch male thread | 1 | \$6.50 |
| CF14-125N | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/8 inch male thread | 1 | \$8.00 |
| CF14-25N | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/4 inch male thread | 1 | \$9.25 |
| CF14-50N | Compression fitting, 316 stainless steel, for 1/4 inch diameter temperature probes, 1/2 inch male thread | 1 | \$14.00 |
| CFTF-14 | Teflon ferrule for brass or stainless steel compression fittings and 1/4 inch diameter temperature probes | 5 | \$7.75 |

Note: Full listing of accessories available at the end of this section. Thermocouple extension lead wire available at www.automationdirect.com.