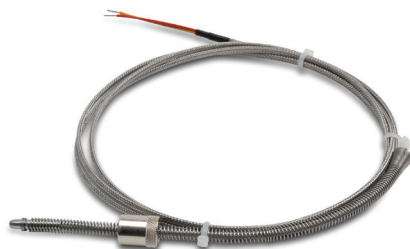


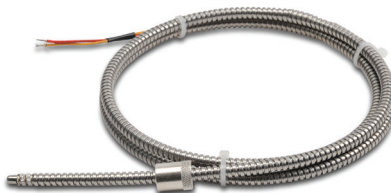
# proSense® Thermocouple Adjustable Immersion Sensors

THMJ & K - D08LXX-01 & 02

THMJ & K - A01LXX-01 & 02



Spring Adjustable



Armor Adjustable



Shown with optional PCA pipe clamp adapter

## Overview

- Ideal thermocouple sensors for the plastics processing industry
- Type J or K thermocouple elements to meet many temperature sensing applications
- Spring adjustable and armor adjustable styles allow for variable immersion depths
- Integral bayonet cap makes installation and removal quick and easy when used with a bayonet adaptor or pipe clamp adapter
- Made in the USA

### Thermocouple Spring Adjustable Immersion Sensors - Types J and K

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Junction Type	Sensor Dimensions	Lead Wire Length (ft)	Temperature Sensing Range	Mounting
<a href="#">THMJ-D08L04-01</a>	1	0.6	\$27.00	J	Grounded	1/4" length x 3/16" O.D. sensing tip 8" length x 0.263" diameter spring.	4	0 to 482°C (32 to 900°F)	Bayonet fitting cap 7/16" inside diameter, single slot. Mount with ProSense bayonet fitting adapter or pipe clamp adapter (purchased separately - see accessories)
<a href="#">THMJ-D08L06-01</a>			J	6					
<a href="#">THMJ-D08L10-01</a>			J	10					
<a href="#">THMK-D08L04-01</a>			K	4					
<a href="#">THMK-D08L06-01</a>			K	6					
<a href="#">THMK-D08L10-01</a>			K	10					
<a href="#">THMJ-D08L10-02</a>			J	10					
<a href="#">THMK-D08L10-02</a>			K	10					

### Thermocouple Armor Adjustable Immersion Sensors - Types J and K

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Junction Type	Sensor Dimensions	Lead Wire Length (ft)	Temperature Sensing Range	Mounting
<a href="#">THMJ-A01L04-01</a>	1	0.6	\$28.50	J	Grounded	1/4" length x 3/16" O.D. sensing tip 0.275" O.D. flexible armor	4	0 to 482°C (32 to 900°F)	Bayonet fitting cap 7/16" inside diameter, single slot. Mount with ProSense bayonet fitting adapter or pipe clamp adapter (purchased separately - see accessories)
<a href="#">THMJ-A01L06-01</a>			J	6					
<a href="#">THMJ-A01L10-01</a>			J	10					
<a href="#">THMK-A01L04-01</a>			K	4					
<a href="#">THMK-A01L06-01</a>			K	6					
<a href="#">THMK-A01L10-01</a>			K	10					
<a href="#">THMJ-A01L10-02</a>			J	10					
<a href="#">THMK-A01L10-02</a>			K	10					

### Technical Specifications

<b>ASTM E320 Standard Limits of Error</b>	±2.2°C (±4.0°F) or 0.75%, whichever is greater
<b>Probe</b>	1/4" length x 3/16" O.D. sensing tip, 316 stainless steel sheath, single thermocouple element
<b>Response Time</b>	2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839
<b>Wiring</b>	Spring adjustable: Stranded 20 AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid Armor adjustable: Stranded 20 AWG wire leads with stripped ends, fiberglass insulation and flexible armor This probe is not sealed and cannot be immersed in liquids



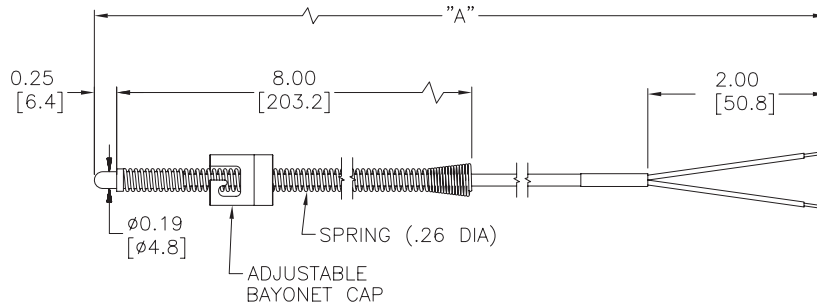
Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

# pro<sup>sense</sup>® Thermocouple Adjustable Immersion Sensors

## Dimensions

inches [mm]

THMJ & K - D08LXX-01 & 02

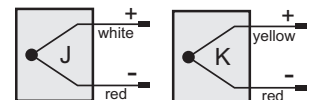


PART NUMBER	DIM "A"
THMJ-D08L04-01	48.00[1219.2]
THMJ-D08L06-01	72.00[1828.8]
THMJ-D08L10-01	120.00[3048.0]
THMK-D08L04-01	48.00[1219.2]
THMK-D08L06-01	72.00[1828.8]
THMK-D08L10-01	120.00[3048.0]
THMJ-D08L10-02	120.00[3048.0]
THMK-D08L10-02	120.00[3048.0]

## Wiring Information

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

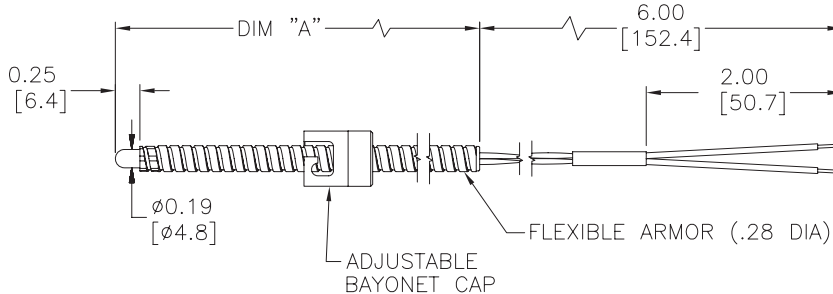
- Must use thermocouple extension lead wire
- Observe polarity when making connections
- Do not use standard wire nuts



## Dimensions

inches [mm]

THMJ & K - A01LXX-01 & 02

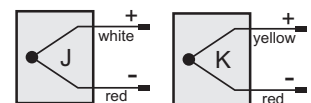


PART NUMBER	DIM "A"
THMJ-A01L04-01	48.00[1219.2]
THMJ-A01L06-01	72.00[1828.8]
THMJ-A01L10-01	120.00[3048.0]
THMK-A01L04-01	48.00[1219.2]
THMK-A01L06-01	72.00[1828.8]
THMK-A01L10-01	120.00[3048.0]
THMJ-A01L10-02	120.00[3048.0]
THMK-A01L10-02	120.00[3048.0]

## 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



# pro<sup>sense</sup>® Thermocouple Adjustable Immersion Sensors - Accessories

## Accessories

Part No.	Description	Pcs/Pkg	Price
<b><u>BA-078</u></b>	Bayonet adapter, 7/8 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$1.75
<b><u>BA-100</u></b>	Bayonet adapter, 1 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$1.75
<b><u>BA-114</u></b>	Bayonet adapter, 1-1/4 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.25
<b><u>BA-112</u></b>	Bayonet adapter, 1-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.25
<b><u>BA-200</u></b>	Bayonet adapter, 2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.50
<b><u>BA-212</u></b>	Bayonet adapter, 2-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.75
<b><u>BA-300</u></b>	Bayonet adapter, 3 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$3.00
<b><u>BA-312</u></b>	Bayonet adapter, 3-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$3.50
<b><u>PCA-125</u></b>	Pipe clamp adapter, 11/16 to 1-1/4 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$17.50
<b><u>PCA-200</u></b>	Pipe clamp adapter with 1-1/16 to 2 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$18.00
<b><u>PCA-300</u></b>	Pipe clamp adapter with 2-1/16 to 3 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$20.00
<b><u>PCA-425</u></b>	Pipe clamp adapter with 3-5/16 to 4-1/4 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$22.50
<b><u>PCA-500</u></b>	Pipe clamp adapter with 4-1/8 to 7 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$21.00
<b><u>THMJ-SP</u></b>	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	\$4.00
<b><u>THMJ-SJ</u></b>	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	\$5.25
<b><u>THMK-SP</u></b>	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
<b><u>THMK-SJ</u></b>	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
<b><u>THMJ-SPJ</u></b>	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	\$10.00
<b><u>THMK-SPJ</u></b>	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	\$10.00
<b><u>WCB-S</u></b>	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors.	4	\$12.00

Note: Thermocouple extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com)

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

### **BA-078**



### **THMJ-SJ**



### **PCA-XXX**



### **BA-114**



### **THMJ-SP**



Pipe Clamp Adapter

### **BA-300**



### **THMJ-SPJ**



Bayonet Mounting Adapters

Thermocouple Connectors