

pro^{sense}® 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

| 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 |
| THMJ-D08L04-01 | 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) |
| THMJ-D08L06-01 | | | \$30.00 | J | | | 6 | | |
| THMJ-D08L10-01 | | | \$34.00 | J | | | 10 | | |
| THMK-D08L04-01 | | | \$27.00 | K | | | 4 | | |
| THMK-D08L06-01 | | | \$30.00 | K | | | 6 | | |
| THMK-D08L10-01 | | | \$34.00 | K | | | 10 | | |
| THMJ-D08L10-02 | | | \$34.00 | J | Ungrounded | | 10 | | |
| THMK-D08L10-02 | | | \$34.00 | K | | | 10 | | |
| | | | | | | | | | |

Thermocouple Armor Adjustable Immersion Sensors - Types J and K

| 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 |
| THMJ-A01L04-01 | 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) |
| THMJ-A01L06-01 | | | \$32.00 | J | | | 6 | | |
| THMJ-A01L10-01 | | | \$39.00 | J | | | 10 | | |
| THMK-A01L04-01 | | | \$28.50 | K | | | 4 | | |
| THMK-A01L06-01 | | | \$32.00 | K | | | 6 | | |
| THMK-A01L10-01 | | | \$39.00 | K | | | 10 | | |
| THMJ-A01L10-02 | | | \$40.00 | J | Ungrounded | | 10 | | |
| THMK-A01L10-02 | | | \$40.00 | K | | | 10 | | |

Technical Specifications

| | |
|---|--|
| ASTM E320 Standard Limits of Error | ±2.2°C (±4.0°F) or 0.75%, whichever is greater |
| Probe | 1/4" length x 3/16" O.D. sensing tip, 316 stainless steel sheath, single thermocouple element |
| Response Time | 2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839 |
| Wiring | 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 |



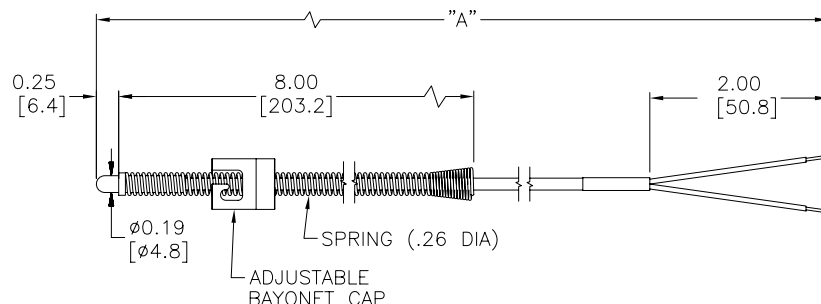
Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

prosense® Thermocouple Adjustable Immersion Sensors

Dimensions

inches [mm]

THMJ & K - D08LXX-01 & 02



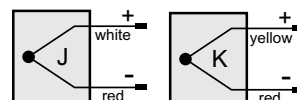
| TABLE A | |
|----------------|----------------|
| PART NUMBER | DIM "A" |
| THMJ-D08L04-01 | 48.00[1219.2] |
| THMJ-D08L06-01 | 72.00[1828.8] |
| THMJ-D08L10-01 | 120.00[3048.0] |
| THMK-D08L04-01 | 48.00[1219.2] |
| THMK-D08L06-01 | 72.00[1828.8] |
| THMK-D08L10-01 | 120.00[3048.0] |
| THMJ-D08L10-02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

Wiring Information

Type J: (+) white (-) red

Type K: (+) yellow (-) red

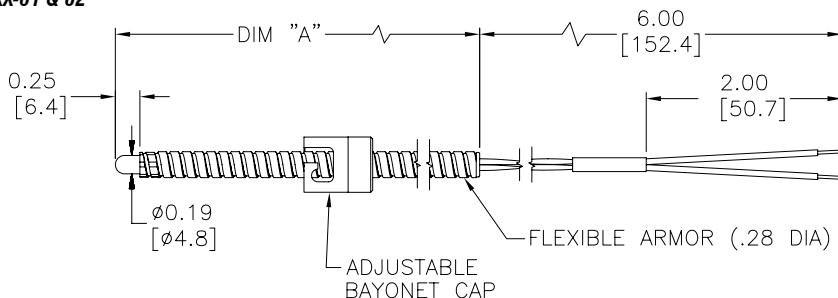
- Must use thermocouple extension lead wire
- Observe polarity when making connections
- Do not use standard wire nuts



Dimensions

inches [mm]

THMJ & K - A01LXX-01 & 02



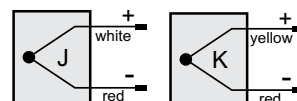
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prosense® Thermocouple Adjustable Immersion Sensors - Accessories

Accessories

| Part No. | Description | Pcs/Pkg | Price |
|------------------------|--|---------|---------|
| <u>BA-078</u> | Bayonet adapter, 7/8 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$1.75 |
| <u>BA-100</u> | Bayonet adapter, 1 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$1.75 |
| <u>BA-114</u> | Bayonet adapter, 1-1/4 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$2.25 |
| <u>BA-112</u> | Bayonet adapter, 1-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$2.25 |
| <u>BA-200</u> | Bayonet adapter, 2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$2.50 |
| <u>BA-212</u> | Bayonet adapter, 2-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$2.75 |
| <u>BA-300</u> | Bayonet adapter, 3 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$3.00 |
| <u>BA-312</u> | Bayonet adapter, 3-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT | 1 | \$3.50 |
| <u>PCA-125</u> | 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 |
| <u>PCA-200</u> | 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 |
| <u>PCA-300</u> | 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 |
| <u>PCA-425</u> | 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 |
| <u>PCA-500</u> | 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 |
| <u>THMJ-SP</u> | 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 |
| <u>THMK-SP</u> | 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 |
| <u>THMK-SJ</u> | 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 |
| <u>THMJ-SPJ</u> | 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 |
| <u>THMK-SPJ</u> | 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 |
| <u>WCB-S</u> | 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

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