

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
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	10		Ungrounded		
THMK-D08L10-02			\$34.00	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
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	10		Ungrounded		
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



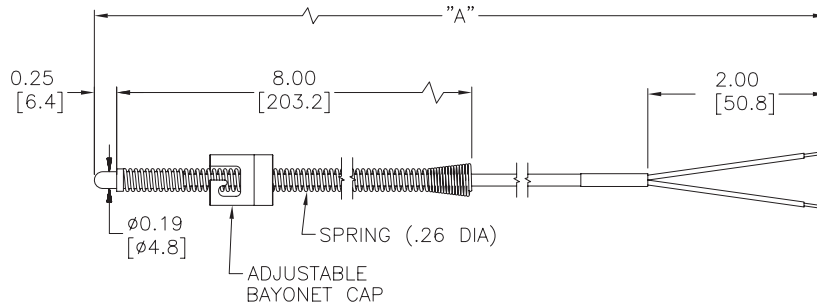
Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

pro^{ense}® Thermocouple Adjustable Immersion Sensors

Dimensions

inches [mm]

THMJ & K - D08LXX-01 & 02

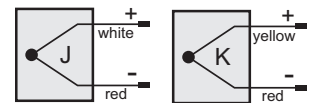


PART NUMBER	DIM "A"
THMJ-D08L04-01	48.00[1219.2]
THMJ-D08L06-01	72.00[1828.8]
THMJ-D08L10-01	120.00[3048.0]
THMK-D08L04-01	48.00[1219.2]
THMK-D08L06-01	72.00[1828.8]
THMK-D08L10-01	120.00[3048.0]
THMJ-D08L10-02	120.00[3048.0]
THMK-D08L10-02	120.00[3048.0]

Wiring Information

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

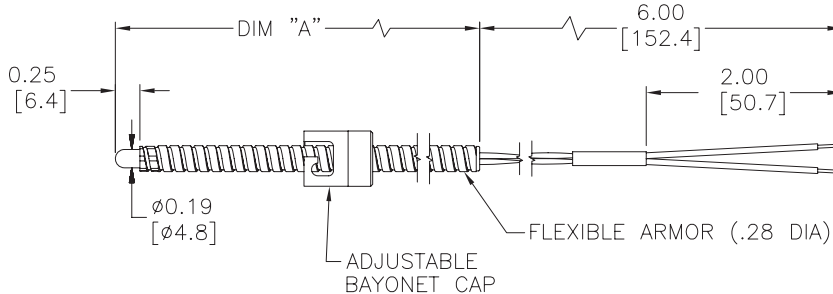
- Must use thermocouple extension lead wire
- Observe polarity when making connections
- Do not use standard wire nuts



Dimensions

inches [mm]

THMJ & K - A01LXX-01 & 02

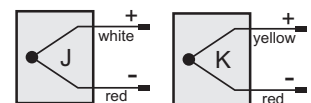


PART NUMBER	DIM "A"
THMJ-A01L04-01	48.00[1219.2]
THMJ-A01L06-01	72.00[1828.8]
THMJ-A01L10-01	120.00[3048.0]
THMK-A01L04-01	48.00[1219.2]
THMK-A01L06-01	72.00[1828.8]
THMK-A01L10-01	120.00[3048.0]
THMJ-A01L10-02	120.00[3048.0]
THMK-A01L10-02	120.00[3048.0]

Wiring Information

Type J: (+) white (-) red
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- Must use thermocouple extension lead wire
- Observe polarity when making connections.
- Do not use standard wire nuts



pro^{sense}® 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	\$4.00
<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	\$5.25
<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	\$10.00
<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	\$10.00
<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