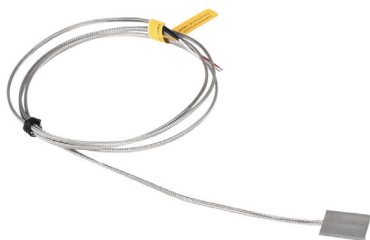


# prosense® Thermocouple Spade Sensors

## Overview

- Ideal for surface temperature measurement.
- Versions include a thermocouple sandwiched between two thin shims of stainless steel or a thermocouple sealed in epoxy between two layers of polyimide tape.
- Stainless steel version can be mounted using a worm drive hose clamp or by placing under heater bands.
- Polyimide versions are provided with an adhesive backing for easy attachment to many surfaces.
- These spades can be formed and secured to the outside of various size tubes, pipes, or nozzles.
- Type J or Type K thermocouples
- Grounded or ungrounded junctions
- 6-foot lead wires with stainless steel overbraid
- Made in the USA



**THMJ-S01L06-01**



**THMJ-S02L06-01**

## Thermocouple Spade Sensors - Types J and K

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Junction Type	Spade Material	Temperature Sensing Range
<a href="#">THMJ-S01L06-01</a>	1	0.25	\$54k1:	J	Grounded	Stainless steel	-18 to 482°C (0 to 900°F)
<a href="#">THMJ-S02L06-01</a>	1	0.25	\$54k?:		Ungrounded	Polyimide w/ adhesive	-18 to 204°C (0 to 400°F)
<a href="#">THMK-S01L06-01</a>	1	0.25	\$54l6:	K	Grounded	Stainless steel	-18 to 482°C (0 to 900°F)
<a href="#">THMK-S02L06-01</a>	1	0.25	\$54l7:		Ungrounded	Polyimide w/ adhesive	-18 to 204°C (0 to 400°F)

## Technical Specifications

<b>ASTM E230 Standard limits of Error</b>	$\pm 2.2^{\circ}\text{C}$ ( $\pm 4.0^{\circ}\text{F}$ ) or 0.75%, whichever is greater
<b>Response Time</b>	2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839
<b>Wiring</b>	6 foot stranded (Stainless steel spade: 20 AWG / Polyimide spade: 24 AWG) wire leads with stripped ends, fiberglass insulation and stainless steel overbraid

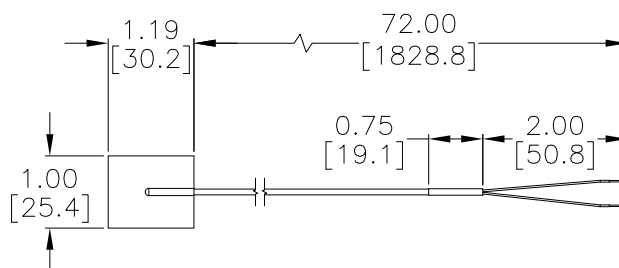


*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

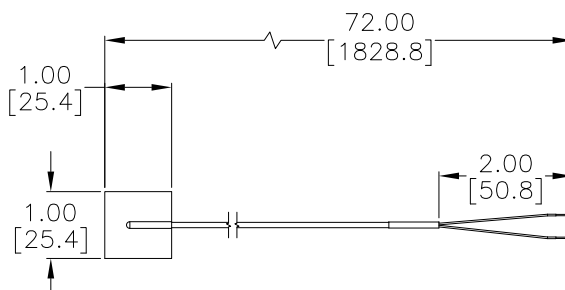
## Dimensions

inches [mm]

**THMJ & K - S01L06-01**



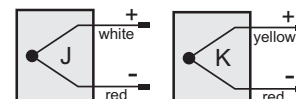
**THMJ & K - S02L06-01**



## 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



# prosense® Thermocouple Spade Sensors

## Accessories

Part No.	Description	Pcs/Pkg	Price
<a href="#"><u>THMJ-SP</u></a>	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	\$-43i:
<a href="#"><u>THMJ-SJ</u></a>	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	\$43h:
<a href="#"><u>THMK-SP</u></a>	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	\$43s:
<a href="#"><u>THMK-SJ</u></a>	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	\$43q:
<a href="#"><u>THMK-HSP</u></a>	Thermocouple connector, Type K, high-temperature standard round pin plug, maximum continuous temperature 662°F (350°C), thermoset brown body, thermocouple material pins, 14 AWG (2.0 mm) maximum wire size	1	\$-043l:
<a href="#"><u>THMJ-MP</u></a>	Thermocouple connector, Type J, miniature flat pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size	1	\$;43f:
<a href="#"><u>THMJ-MJ</u></a>	Thermocouple connector, Type J, miniature flat pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic black body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size	1	\$43e:
<a href="#"><u>THMK-MP</u></a>	Thermocouple connector, Type K, miniature flat pin plug, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size	1	\$43o:
<a href="#"><u>THMK-MJ</u></a>	Thermocouple connector, Type K, miniature flat pin jack, maximum continuous temperature 400°F (200°C), glass filled thermoplastic yellow body, thermocouple material pins, 20 AWG maximum (0.8 mm) wire size	1	\$43n:
<a href="#"><u>THMJ-SPJ</u></a>	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	\$-043j:
<a href="#"><u>THMK-SPJ</u></a>	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	\$;043t:
<a href="#"><u>THMJ-MPJ</u></a>	Thermocouple connector, Type J, miniature flat 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	\$43g:
<a href="#"><u>THMK-MPJ</u></a>	Thermocouple connector, Type K, miniature flat 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	\$43p:
<a href="#"><u>WCB-M</u></a>	Wire / cable clamp bracket for use with miniature thermocouple connectors	4	\$05ho:
<a href="#"><u>WCB-S</u></a>	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$05hp:

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.

[THMJ-SJ](#)



[THMJ-SP](#)



[THMJ-SPJ](#)



**Thermocouple Connectors**