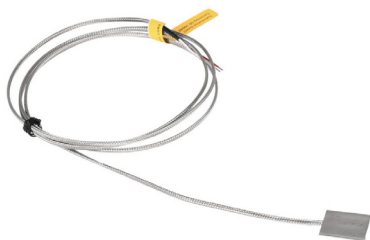


prosense® Thermocouple Spade Sensors

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
THMJ-S01L06-01	1	0.25	\$27.50	J	Grounded	Stainless steel	-18 to 482°C (0 to 900°F)
THMJ-S02L06-01	1	0.25	\$30.00		Ungrounded	Polyimide w/ adhesive	-18 to 204°C (0 to 400°F)
THMK-S01L06-01	1	0.25	\$30.50	K	Grounded	Stainless steel	-18 to 482°C (0 to 900°F)
THMK-S02L06-01	1	0.25	\$32.50		Ungrounded	Polyimide w/ adhesive	-18 to 204°C (0 to 400°F)

Technical Specifications

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

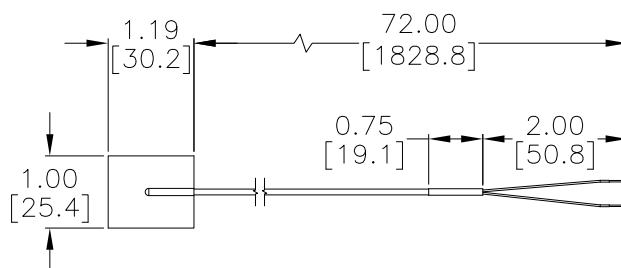


Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

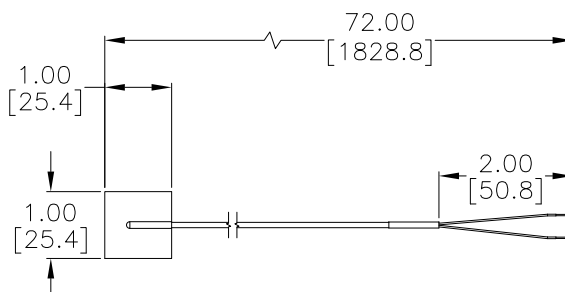
Dimensions

inches [mm]

THMJ & K - S01L06-01



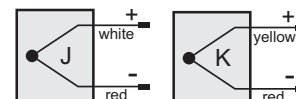
THMJ & K - S02L06-01



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
<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>THMK-HSP</u>	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	\$14.00
<u>THMJ-MP</u>	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	\$3.75
<u>THMJ-MJ</u>	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	\$4.25
<u>THMK-MP</u>	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	\$4.00
<u>THMK-MJ</u>	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	\$4.25
<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>THMJ-MPJ</u>	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	\$8.25
<u>THMK-MPJ</u>	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	\$9.00
<u>WCB-M</u>	Wire / cable clamp bracket for use with miniature thermocouple connectors	4	\$12.00
<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.

[THMJ-SJ](#)[THMJ-SP](#)[THMJ-SPJ](#)

Thermocouple Connectors