Or Sense 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

Thermocouple Spade Sensors - Types J and K										
Part Number	Pcs/Pkg	Wt (lb)	Price	Туре	Junction Type	Spade Material	Temperature Sensing Range			
THMJ-S01L06-01	1	0.25	\$27.50		Grounded	Stainless steel	-18 to 482°C (0 to 900°F)			
THMJ-S02L06-01	1	0.25	\$30.00	J	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	±2.2°C (±4.0°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 72.00 1.19 1828.8 30.2 inches [mm] 0.75 [19.1] THMJ & K - S01L06-01 1.00 [25.4]72.00 [1828.8] 1.00 [25.4] THMJ & K - S02L06-01 1.00

25.4

Wiring Information

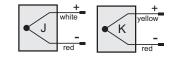
Type J: (+) white (-) red Type K: (+) yellow (-) red

2.00

50.8

2.00 [50.8]

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



Propense Thermocouple Spade Sensors

Accessories

Part No.	Description	Pcs/Pkg	Price
THMJ-SP	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
THMJ-SJ	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
THMK-SP	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
THMK-SJ	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
THMK-HSP	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
HMJ-MP	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
НМЈ-МЈ	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
HMK-MP	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
HMK-MJ	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
HMJ-SPJ	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
HMK-SPJ	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
HMJ-MPJ	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
HMK-MPJ	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
VCB-M	Wire / cable clamp bracket for use with miniature thermocouple connectors	4	\$12.00
NCB-S	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-SP THMJ-SPJ







Thermocouple Connectors

www.automationdirect.com Temperature Sensors tTRS-56