

prosense® Thermocouple Threaded Bolt Sensors



THMJ-N38P14-01

Overview

- Typically used to measure the temperature of the nozzle of an injection molding machine without being in direct contact with the molten plastic.
- The small size of this sensor makes it ideal for other general areas of use such as mounting in bearing housings, sealing bars, heat plates, and other limited space applications
- Type J or Type K thermocouples
- Grounded or ungrounded junctions
- 1/4-28 UNF threaded stainless steel rotating bolt allows for easy installation
- 6-foot lead wires with stainless steel overbraid
- Made in the USA

Thermocouple Threaded Bolt Sensors - Types J and K

Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Junction Type	Bolt	Temperature Sensing Range
THMJ-N38P14-01	1	0.25	\$32.50	J	Grounded	1/4-28 x 3/8" Stainless Steel Rotating Bolt	-18 to 482°C (0 to 900°F)
THMJ-N38P14-02	1	0.25	\$35.00		Ungrounded		
THMK-N38P14-01	1	0.25	\$34.00	K	Grounded		
THMK-N38P14-02	1	0.25	\$36.50		Ungrounded		

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 24 AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid

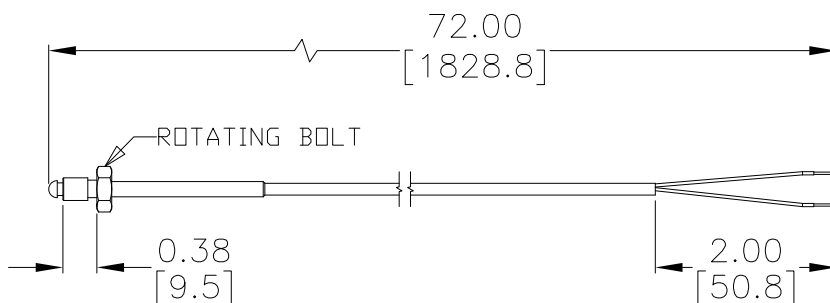


Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

Dimensions

inches [mm]

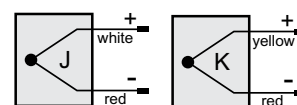
THMJ & K - N38P14-0X



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



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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