

pro^{sense} 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 | \$28.00 | 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 | \$30.50 | | Ungrounded | | |
| THMK-N38P14-01 | 1 | 0.25 | \$29.25 | K | Grounded | | |
| THMK-N38P14-02 | 1 | 0.25 | \$31.50 | | Ungrounded | | |

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

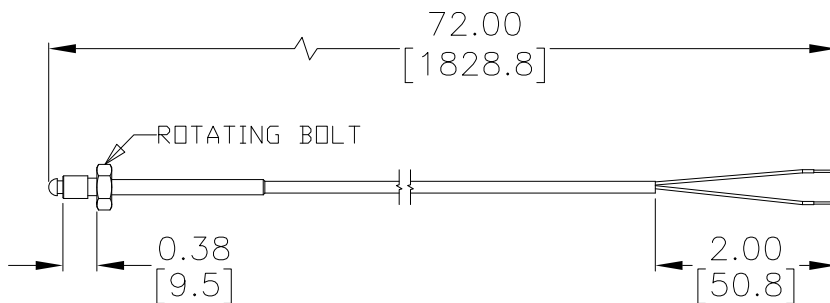


NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.

Dimensions

inches [mm]

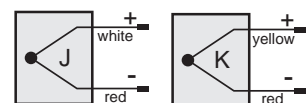
THMJ & K - N38P14-0X



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 |
|-----------------|--|---------|--------|
| 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 | \$3.50 |
| 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 | \$4.50 |
| 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 | \$4.00 |
| 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 | \$4.75 |
| 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 | \$9.25 |
| THMJ-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 | \$3.25 |
| THMJ-MJ | 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 | \$3.75 |
| THMK-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 | \$3.50 |
| THMK-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 | \$3.75 |
| THMJ-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 | \$8.50 |
| THMK-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 | \$8.25 |
| THMJ-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 | \$5.50 |
| THMK-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 | \$6.00 |
| WCB-M | Wire / cable clamp bracket for use with miniature thermocouple connectors | 4 | \$5.50 |
| WCB-S | Wire / cable clamp bracket for use with standard thermocouple and RTD connectors | 4 | \$5.50 |

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