

# pro<sup>sense</sup>® Thermocouple Magnet Mount Sensors



THMJ-M01L06-01

## Overview

- Magnet sensors are designed to measure the surface temperature of ferrous metals with a convenient and non-destructive magnetic attachment.
- Can be mounted either vertically or horizontally to molding press platens, bearing/motor housings and various other metal surfaces.
- Type J or Type K thermocouples
- Exposed junction
- 6-foot lead wires with stainless steel overbraid
- Made in the USA

| Thermocouple Magnet Mount Sensors - Types J and K |         |         |          |      |               |                               |  |
|---|---------|---------|----------|------|---------------|-------------------------------|--|
| Part Number                                       | Pcs/Pkg | Wt (lb) | Price    | Type | Junction Type | Temperature Sensing Range     | Mounting                                     |
| THMJ-M01L06-01                                    | 1       | 0.75    | \$104.00 | J    | Exposed       | -18 to 316°C<br>(0 to 600°F)* | Alnico 4-pole rotor magnet (10lb pull force) |
| THMK-M01L06-01                                    | 1       | 0.75    | \$110.00 | K    |               |                               |  |

\* Continuous operating temperature of 400 °F. Intermittent temperatures up to 600 °F, but the pull of the magnet will be degraded at temperatures above 450 °F.

| Technical Specifications           |   |
|------------------------------------|---|
| ASTM E230 Standard limits of Error | ±2.2°C (±4.0°F) or 0.75%, whichever is greater  |
| Wiring                             | 6 foot stranded 20 AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid |

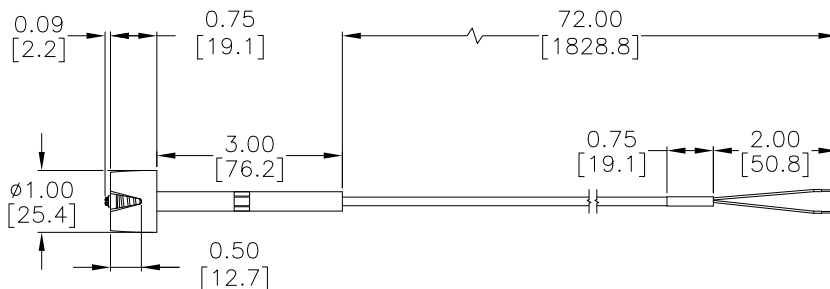


**NOTE: CHECK THE CHEMICAL COMPATIBILITY OF THE SENSOR'S WETTED PARTS WITH THE MEDIUM TO BE MEASURED.**

## Dimensions

inches [mm]

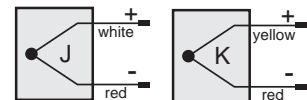
THMJ & K - M01L06-01



## 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



**NOTE: MAGNET MOUNT SENSORS SHIP WITH A METAL BLANK ATTACHED TO THE MAGNET. REMOVE THE METAL BLANK BEFORE USE.**

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## Accessories

| Part No.        | Description  | Pcs/Pkg | Price  |
|-----------------|--|---------|--------|
| <b>THMJ-SP</b>  | 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 |
| <b>THMJ-SJ</b>  | 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 |
| <b>THMK-SP</b>  | 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 |
| <b>THMK-SJ</b>  | 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 |
| <b>THMK-HSP</b> | 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 |
| <b>THMJ-MP</b>  | 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 |
| <b>THMJ-MJ</b>  | 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 |
| <b>THMK-MP</b>  | 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 |
| <b>THMK-MJ</b>  | 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 |
| <b>THMJ-SPJ</b> | 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 |
| <b>THMK-SPJ</b> | 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 |
| <b>THMJ-MPJ</b> | 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 |
| <b>THMK-MPJ</b> | 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 |
| <b>WCB-M</b>    | Wire / cable clamp bracket for use with miniature thermocouple connectors  | 4       | \$5.50 |
| <b>WCB-S</b>    | 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](http://www.automationdirect.com)  
See end of section for full listing of accessories and dimension information.

**THMJ-SJ****THMJ-SP****THMJ-SPJ**

**Thermocouple Connectors**