

# prosense® 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
<b>THMJ-M01L06-01</b>	1	0.75	\$054kk:	J	Exposed	-18 to 316°C (0 to 600°F)*	Alnico 4-pole rotor magnet (10lb pull force)
<b>THMK-M01L06-01</b>	1	0.75	\$-054l3:	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

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

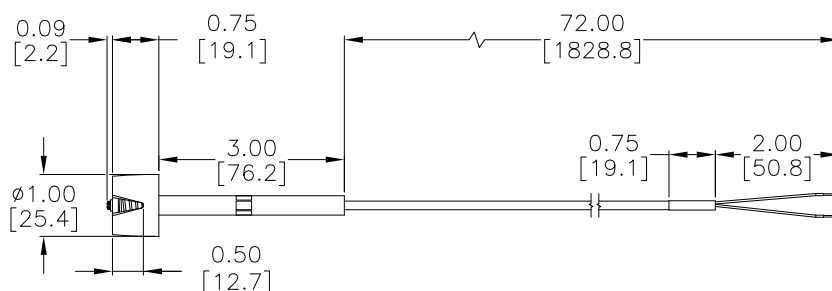


*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

## Dimensions

inches [mm]

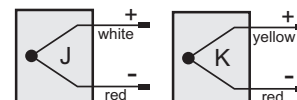
THMJ & K - M01L06-01



## 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

<b>Part No.</b>	<b>Description</b>	<b>Pcs/Pkg</b>	<b>Price</b>
<b><u>THMJ-SP</u></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	\$-43i:
<b><u>THMJ-SJ</u></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	\$43h:
<b><u>THMK-SP</u></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	\$43s:
<b><u>THMK-SJ</u></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	\$43q:
<b><u>THMK-HSP</u></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	\$-043i:
<b><u>THMJ-MP</u></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	\$.43f:
<b><u>THMJ-MJ</u></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	\$43e:
<b><u>THMK-MP</u></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	\$43o:
<b><u>THMK-MJ</u></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	\$43n:
<b><u>THMJ-SPJ</u></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	\$-043j:
<b><u>THMK-SPJ</u></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	\$.043t:
<b><u>THMJ-MPJ</u></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	\$43g:
<b><u>THMK-MPJ</u></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	\$43p:
<b><u>WCB-M</u></b>	Wire / cable clamp bracket for use with miniature thermocouple connectors	4	\$05ho:
<b><u>WCB-S</u></b>	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$05hp:

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**