

# pro<sup>sense</sup>® Melt-Bolt Thermocouple Probes with Attached Plug



**THMJ-MB3T14-02**



**THMJ-MB6T00-02**



**THMJ-MB6TA-01**

## Overview

- Used on extruders and injection molding machines to directly measure the melt temperature of plastic as it moves down the extruder barrel
- Commonly used Type J thermocouple
- 3" or 6" bolt lengths
- Flush, 1/8", 1/4", or adjustable tip lengths
- Grounded or ungrounded junctions
- 1/2-20 UNF thread process connection
- 2-pin standard size plug

Melt-Bolt Thermocouple Probes with Attached Plug - Type J												
Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Tip Length	Tip Diameter	Bolt Length	Temperature Sensing Range	Junction Type	Attached Plug Size	Mating Jack (see accessories-purchased separately)	
<a href="#">THMJ-MB3T00-01</a>	1	0.63	\$49.00	J	Flush	1/8"	3"	-18 to 482°C (0 to 900°F), plug rated to 204°C (400°F)	Grounded	Standard	THMJ-SJ or THMJ-SPJ	
<a href="#">THMJ-MB3T18-01</a>		0.63	\$49.00		1/8"							Ungrounded
<a href="#">THMJ-MB3T14-01</a>		0.63	\$49.00		1/4"							
<a href="#">THMJ-MB3T00-02</a>		0.63	\$51.50		Flush				Ungrounded			
<a href="#">THMJ-MB3T18-02</a>		0.63	\$51.50		1/8"							
<a href="#">THMJ-MB3T14-02</a>		0.63	\$51.50		1/4"							
<a href="#">THMJ-MB6T00-01</a>		0.75	\$61.00		Flush	6"	Grounded					
<a href="#">THMJ-MB6T18-01</a>		0.75	\$61.00		1/8"			Ungrounded				
<a href="#">THMJ-MB6T14-01</a>		0.75	\$61.00		1/4"							
<a href="#">THMJ-MB6T00-02</a>		0.75	\$63.50		Flush		Ungrounded					
<a href="#">THMJ-MB6T18-02</a>		0.75	\$63.50		1/8"							
<a href="#">THMJ-MB6T14-02</a>		0.75	\$63.50		1/4"							
<a href="#">THMJ-MB3TA-01</a>		0.75	\$156.00		Adjustable (0 - 1")	5/32"	3"	Exposed				
<a href="#">THMJ-MB6TA-01</a>		0.75	\$161.00				6"					

Technical Specifications	
ASTM E230 Standard Limits of Error	±2.2°C (±4.0°F) or 0.75%, whichever is greater
Bolt Threads	1/2-20 UNF - 2A Bolt Thread (Nominal Thread Length 1-7/8")
Response Time	2.9 seconds, 63.2% of a 25-77°C step change per method ASTM E839
Wiring	Fixed tip: Fiberglass insulation with flexible armor Adjustable tip: MgO insulated tube 1/8" graduated marks Attached plug, mating jack sold separately. See accessories.



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

# prosense® Melt-Bolt Thermocouple Probes with Attached Plug

## Dimensions

inches [mm]

THMJ-MBxxxx-xx

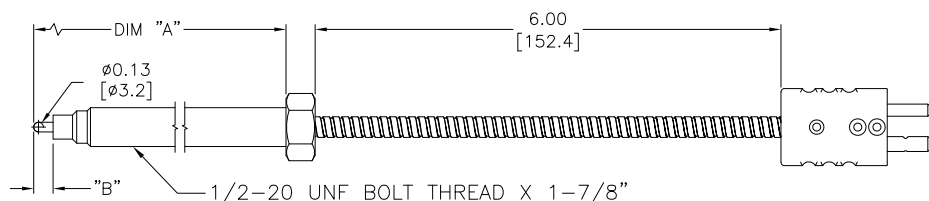
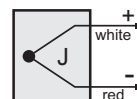


TABLE A		
PART NUMBER	DIM "A"	DIM "B"
THMJ-MB3T00-01	3.00[76.2]	0.00[FLUSH]
THMJ-MB3T14-01	3.00[76.2]	0.25[6.4]
THMJ-MB3T18-01	3.00[76.2]	0.125[3.2]
THMJ-MB3T00-02	3.00[76.2]	0.00[FLUSH]
THMJ-MB3T14-02	3.00[76.2]	0.25[6.4]
THMJ-MB3T18-02	3.00[76.2]	0.125[3.2]
THMJ-MB6T00-01	6.00[152.4]	0.00[FLUSH]
THMJ-MB6T14-01	6.00[152.4]	0.25[6.4]
THMJ-MB6T18-01	6.00[152.4]	0.125[3.2]
THMJ-MB6T00-02	6.00[152.4]	0.00[FLUSH]
THMJ-MB6T14-02	6.00[152.4]	0.25[6.4]
THMJ-MB6T18-02	6.00[152.4]	0.125[3.2]

## Wiring Information

Type J: (+) white (-) red

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



## Dimensions

inches [mm]

THMJ-MB3TA-0X

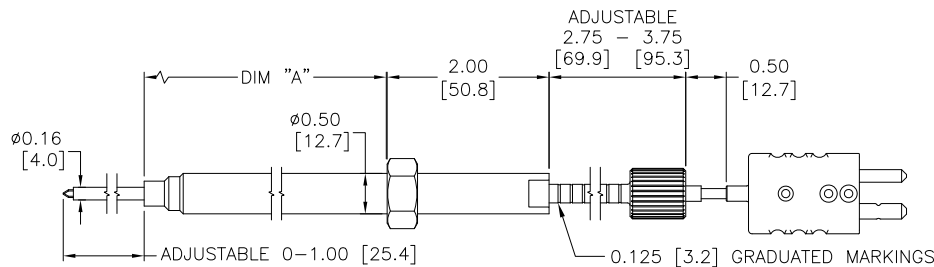


TABLE A	
PART NUMBER	DIM "A"
THMJ-MB3TA-01	3.00[76.2]
THMJ-MB3TA-02	6.00[152.4]

# pro<sup>sense</sup>® Melt-Bolt Thermocouple Probes with Attached Plug - Accessories

## 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	\$4.50
<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	\$5.75
<b><u>WCB-S</u></b>	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$12.00
<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	\$11.00
<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	\$8.25

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-SPJ**



**THMJ-SJ**

