



# Model 1250 Brushless Slip Ring

**Conductors: One Conductor**  
**Amps: 250**

Mercotac® model 1250 brushless slip rings are ideal for high current applications such as on electroplating electrodes and welding cable reels. We offer multiple 1250 model configurations as listed in the product specifications table and data sheet

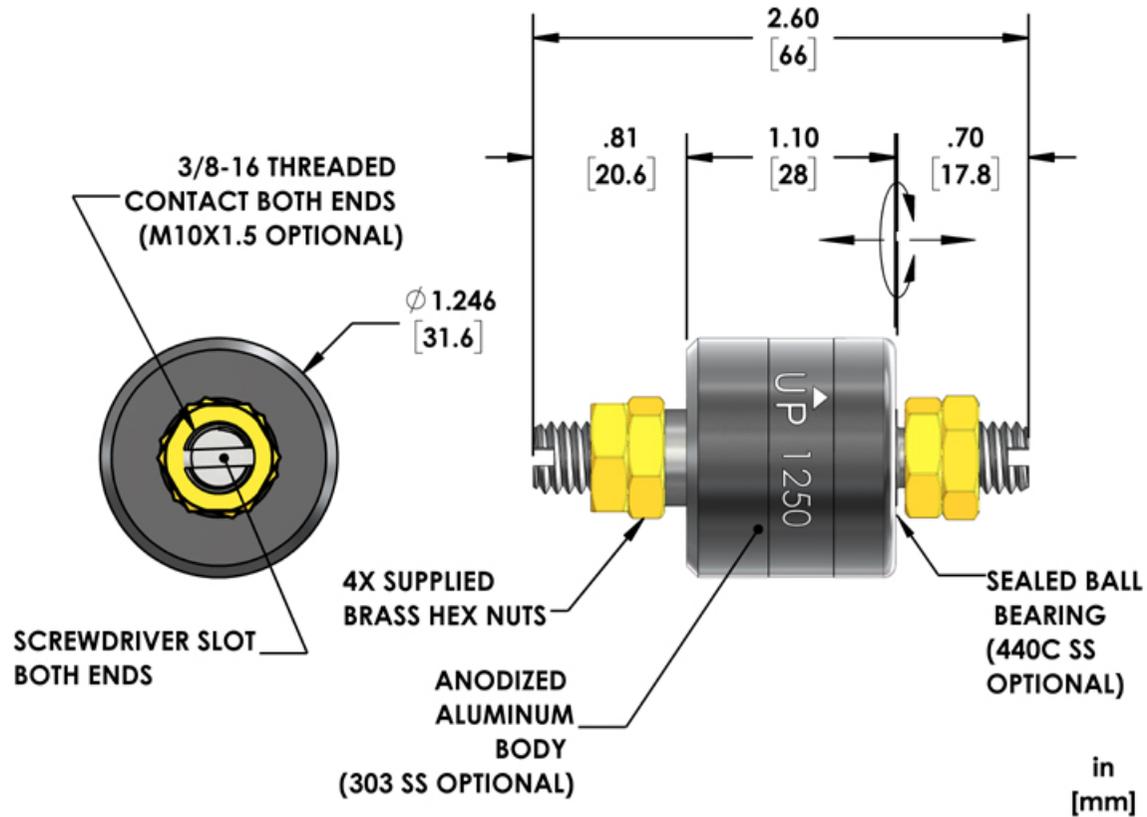
## Advantages:

- Durable, compact, and low cost
- Use for signal and/or power connections
- Easy to install and replace
- IP 51 protection rating with boot kit
- Lightweight and made of robust metal construction
- Long-lasting with no maintenance required
- Made in the USA

[SPEC SHEET](#)[CAD DOWNLOAD](#)

## Model 1250 Product Specifications

### Dimensions

**Details:**

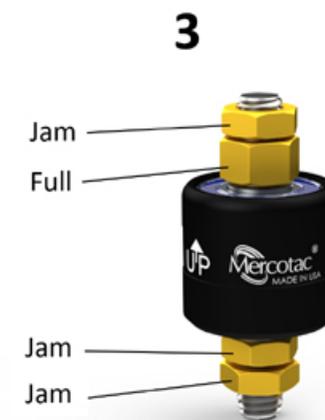
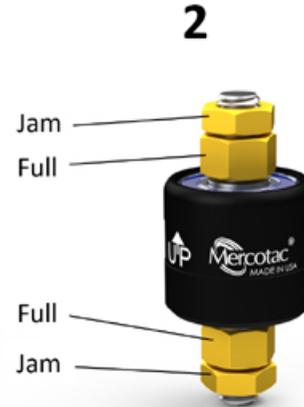
- Available in metric thread (1250-M / 1250-MS / 1250-MSX).
- Available with stainless steel ball bearing (1250-SS / 1250-MS) (recommended for wet or corrosive environments).
- Available with stainless steel body and bearing (1250-SX / 1250-MSX) (recommended for wet or corrosive environments).
- Dust/Splash [Boot Kit](#) available.

**Specifications**

Model No.	Terminals	Body Material	Bearing Type	Bearing Enclosure	Mounting Thread Size	Max. Rotational Torque (gf-cm)	Mounting Nut Configuration (see chart)	Max. Voltage Rating (AC/DC)	Max. Current Rating (Amps)	Max. Rotational Speed (RPM)	Operating Temp. Min °F (°C) Max °F (°C)	Max. Frequency (MHz)	Contact Resistance (mΩ)	Circuit Separation (MΩ)
1250	1	Anodized Aluminum	Chrome Steel	Seal	3/8 - 16	250	1	N/A	250	1200	<b>Min</b> -20 (-29) <b>Max</b> 140 (60)	200	<1	N/A
1250-M				Seal	M10 x 1.5		2							
1250-SC				Seal	3/8 - 16		3							
1250-SS			Stainless Steel** (440C)	Seal	3/8 - 16	1								
1250-MS				Seal	M10 x 1.5	2								
1250-LS***				Stainless Steel (303)	Shield	3/8 - 16	125							
1250-SX		Seal	3/8 - 16		250	1								
1250-MSX		Seal	M10 x 1.5			2								
1250-LSX***				Shield	3/8 - 16	125	1							

- The body of the 1250 series Mercotac™ unit is electrically "hot" to the internal conductor
- A stainless steel Bearing Type and/or stainless steel Body Material is recommended for wet or corrosive environments
- "L" designator indicates low torque (may only be operated vertically)

### Mounting Nut Configurations



### Accessories

**Description:** Boot Kit Parts  
**Item #:** 57125

- Vinyl **Boot Kit** for dust and splash protection
- IP51 protection rating



**Description:** Boot Kit Assembled  
**Item #:** 57125

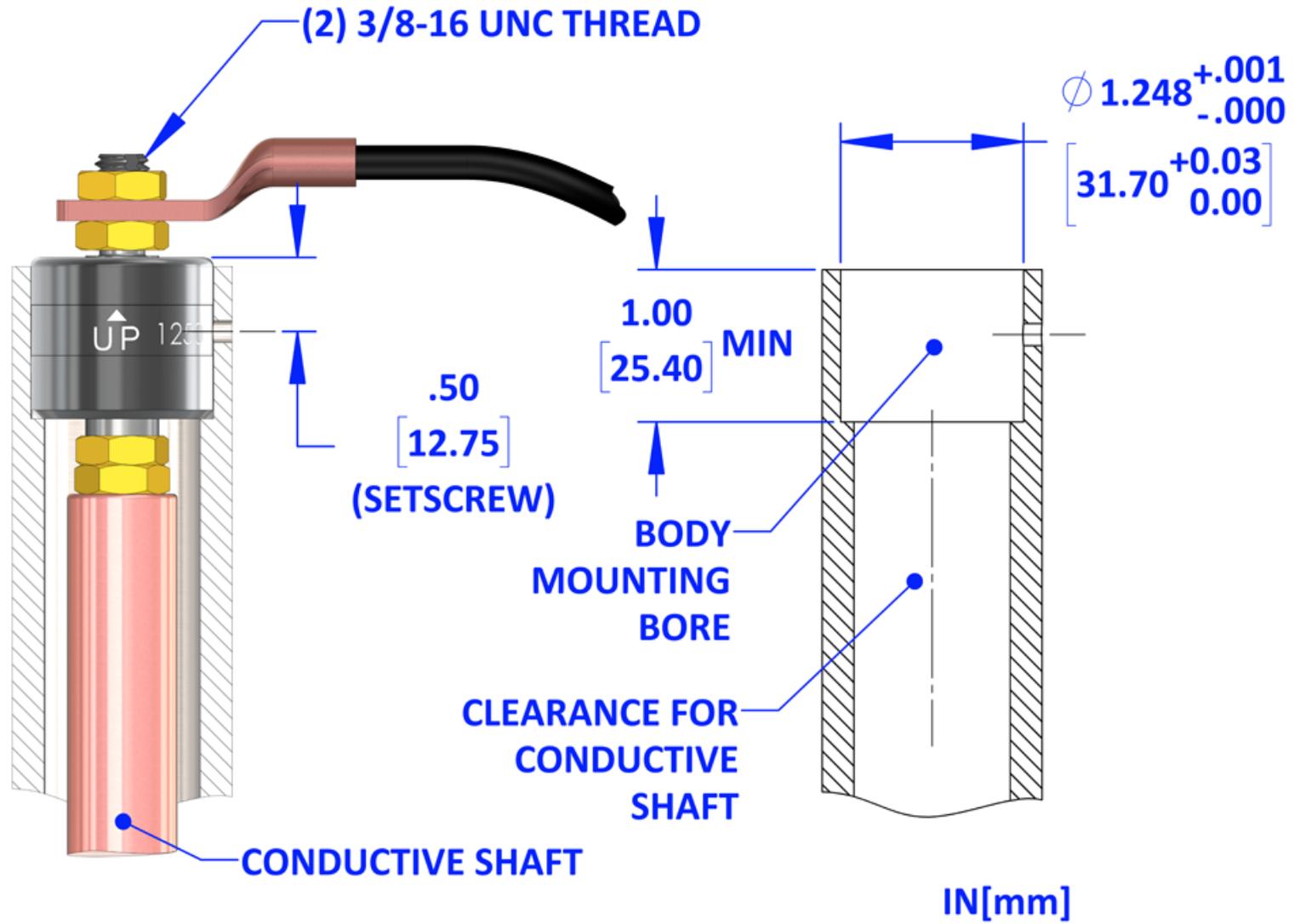
- Vinyl **Boot Kit** for dust and splash protection
- IP51 protection rating



### Mounting

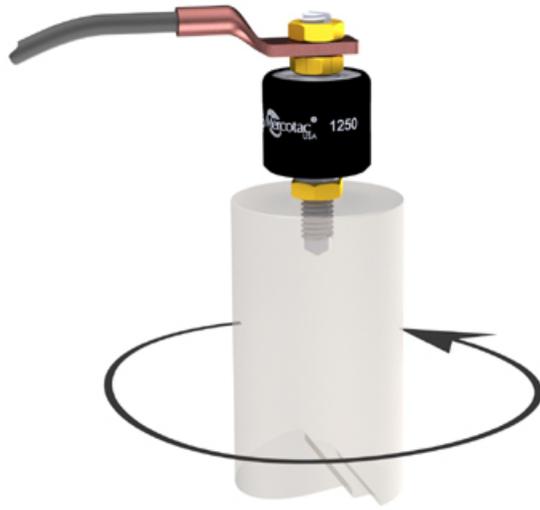
Mercotac Model 1250 is typically mounted by the threaded stud on either end or by the black body using a set screw. When mounting horizontally, mount the Mercotac so the body of the connector rotates.

#### Body Mount

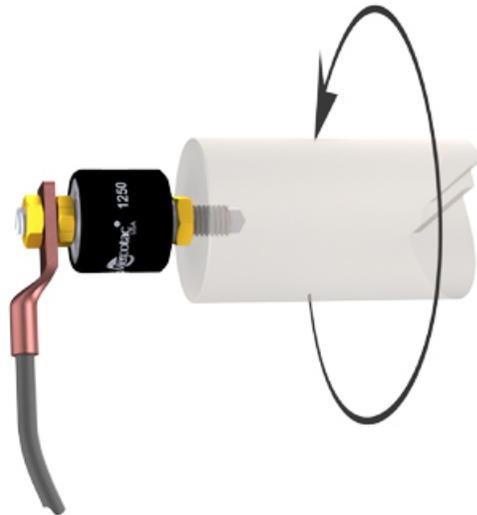


Top Mount with Conductive Shaft

Bottom Mount with Conductive Shaft

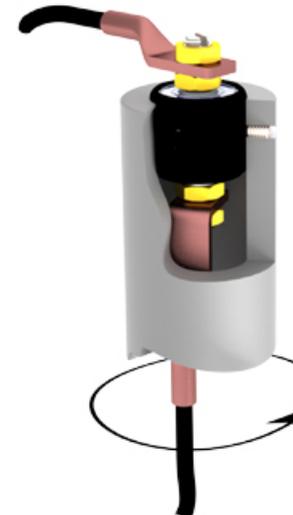


#### Horizontal Mount with Conductive Shaft



Note: Low Torque models may only be operated vertically

#### Top Body Mount to Bushing



Note: The housing of the 1250 series Mercotac is electrically "hot" to the internal conductor.

Installation Notes:

- The up arrow should not point below horizontal.
- Do not solder to or bend terminals.
- Avoid lateral forces and mechanical loads (overly stiff or tight wires).
- Do not rigid mount both ends of the Mercotac.
- Limit the mounting eccentricity (runout / wobble) to .005" (.13mm).
- Provide overload protection within the circuit.
- Avoid vibration and bumping motions.

## Connections

**Without Boot Kit**



**With Boot Kit**



## Applications



The Mercotac Model 1250 is a brushless slip ring designed for high current applications that require rotation, such as electroplating electrodes and welding cable reels. Its unique design uses high-quality, low-resistance materials to ensure a stable and reliable electrical connection that can handle high currents without overheating or damage. The Mercotac Model 1250 is ideal for these high current applications, as it provides a continuous supply of power, resulting in high-quality plating and strong welds. The connectors are easy to install and maintain, making them a cost-effective solution.

Check out our [Applications](#) page for more examples of how Mercotac products are utilized.

## Learning Center

Guidance for using Mercotac® Brushless Slip Rings in engineering designs.



**Learn about our Mercotac® Construction & Materials:** Body Materials, Bearing Types, Conductors/Terminals, Thread Sizes,



**Learn about Mercotac® Electrical Characteristics:** Voltage Rating, Current Rating, Contact Resistance, Circuit Separation, Operating Temperature,



**Learn about Mercotac® Rotational Characteristics:** Rotational Speed, Rotational Torque. [Learn More](#)

Mounting Options.  
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Frequency.  
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