

Taidacent ZC-MOFLON-Slipring

Taidacent Through Bore Electrical Slip Ring ZC-MOFLON-Slipring User Manual

Model: 6 Wire, 5mm Inner Hole, 52mm Outer Diameter

1. PRODUCT OVERVIEW

The Taidacent Through Bore Electrical Slip Ring, model ZC-MOFLON-Slipring, is a precision electrical component designed for transmitting power and signals from a stationary to a rotating structure. This specific variant features 6 wires, a 5mm inner hole, and a 52mm outer diameter, making it suitable for applications requiring continuous rotation while maintaining electrical connections. Its gold-plated contacts ensure reliable performance and extended operational life.



Image 1.1: General view of the Taidacent Through Bore Electrical Slip Ring.

2. KEY FEATURES

- **Gold Plated Ring + Alloy Brush:** Ensures low electrical noise and long service life.
- **Signal and Power Transmission:** Capable of supporting mixed transmission of both signal and power.
- **Through Hole Design:** Allows for routing of hydraulic, pneumatic, or optical fiber lines through the center.
- **Reliable Contact:** Utilizes advanced precious metal cluster brush multi-point contact for stable and reliable electrical connection under extremely low friction.
- **Customizable:** Circuit count and current/voltage can be adapted based on standard models.

3. SPECIFICATIONS

Specification	Detail
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Specification	Detail
Brand	Taidacent
Model Number	ZC-MOFLON-Slipring
Style	6 wire Inner hole 5mm X OD 52mm
Material	Metal
Color	Gold
Finish Type	Gold Plated
Number of Pieces	1
Item Weight	0.03 Kilograms (0.88 ounces)
Package Dimensions	5.16 x 3.11 x 1.06 inches
UPC	681413650718

4. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the slip ring. Failure to do so may result in injury or damage to the product or connected equipment.

- **Electrical Safety:** Ensure all power sources are disconnected before installation or maintenance. Improper wiring can cause electrical shock or fire.
- **Proper Handling:** Handle the slip ring with care to avoid damaging the delicate internal components or wires.
- **Environmental Conditions:** Do not expose the slip ring to excessive moisture, dust, or extreme temperatures beyond its specified operating range.
- **Qualified Personnel:** Installation and wiring should be performed by qualified personnel familiar with electrical systems and rotating machinery.

5. SETUP AND INSTALLATION

Careful installation is crucial for the optimal performance and longevity of the slip ring. Follow these steps for proper setup:

5.1 Mounting

1. Identify the stationary and rotating parts of your application. The slip ring has a stator (stationary part) and a rotor (rotating part).
2. Mount the slip ring securely to ensure proper alignment and prevent vibration. The through-hole design allows for mounting around a central shaft or conduit.
3. Ensure there is no undue stress on the wires or the slip ring housing during mounting.

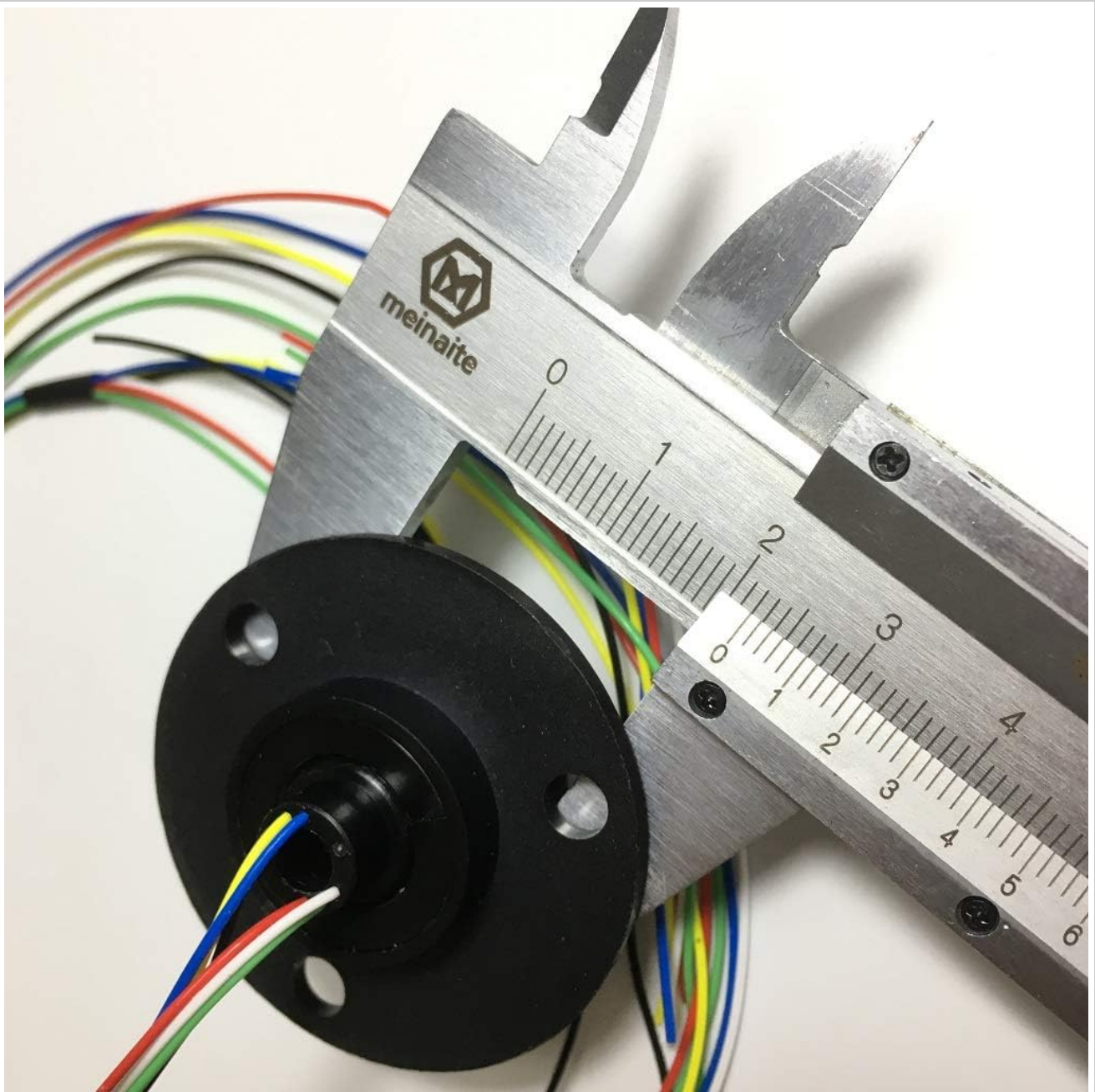


Image 5.1: Slip ring shown with a ruler for general dimension reference. The outer diameter is approximately 52mm.

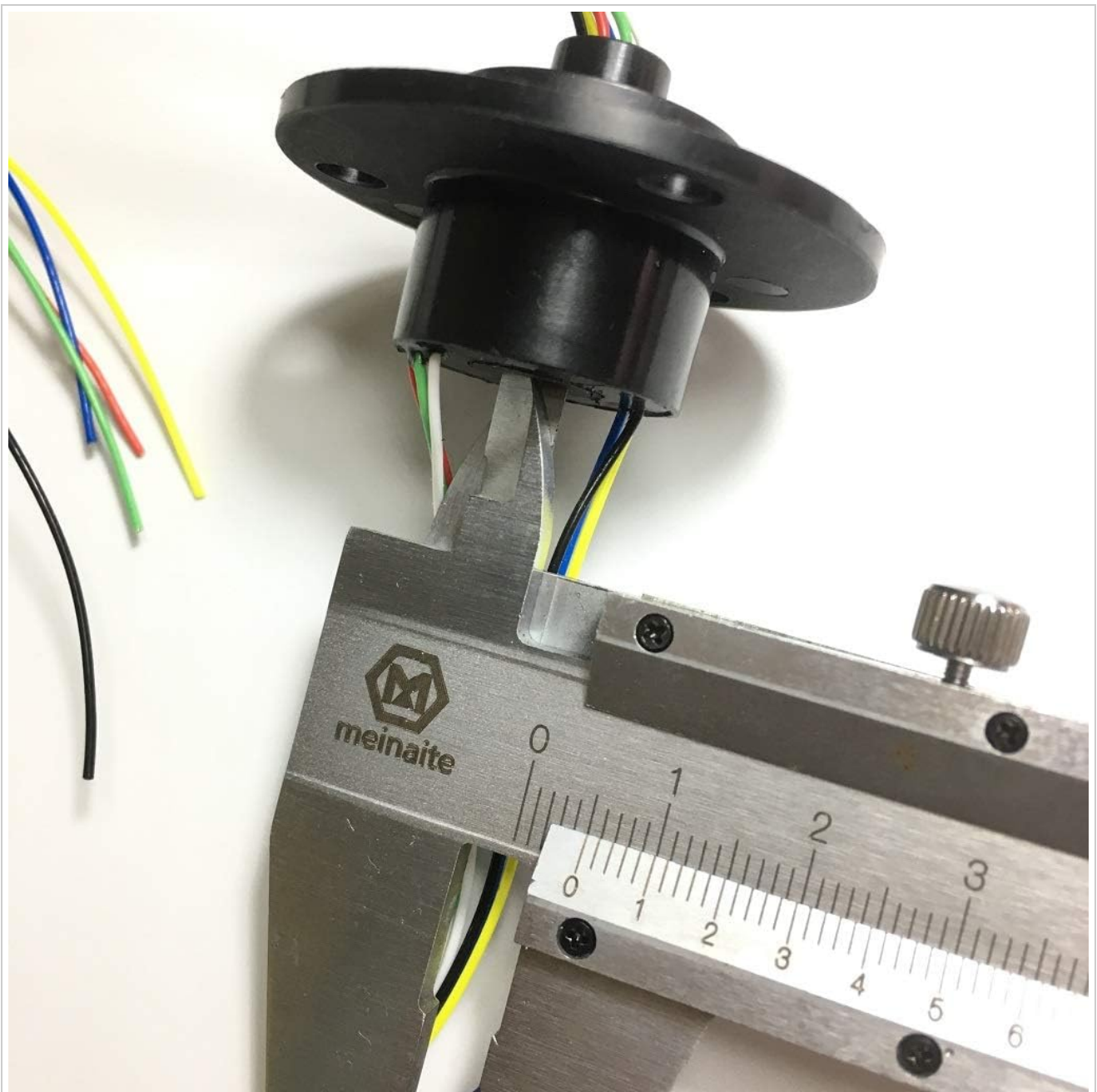


Image 5.2: Caliper measurement confirming the outer diameter of the slip ring is approximately 52mm.



Image 5.3: Caliper measurement confirming the inner hole diameter of the slip ring is approximately 5mm.

5.2 Wiring

The slip ring features 6 color-coded wires for electrical connections. Each wire is designed to carry power or signal. Refer to the specific wiring diagram provided with your application or consult a qualified electrician for complex setups.

- Connect the wires from the stationary side of your application to the corresponding wires on the stator side of the slip ring.
- Connect the wires from the rotating side of your application to the corresponding wires on the rotor side of the slip ring.

- Ensure all connections are secure and properly insulated to prevent short circuits.
- Verify continuity and correct wiring before applying power.

6. OPERATING INSTRUCTIONS

Once properly installed and wired, the Taidacent Through Bore Electrical Slip Ring operates continuously to maintain electrical connections across a rotating interface. No specific user interaction is required during operation.

- Ensure the rotational speed and current/voltage do not exceed the slip ring's specifications.
- Monitor for any unusual noise, vibration, or heat during initial operation.
- The gold-plated contacts and alloy brushes are designed for long-term, low-maintenance operation.

7. MAINTENANCE

The Taidacent Through Bore Electrical Slip Ring is designed for minimal maintenance. However, periodic inspection can help ensure optimal performance and extend its lifespan.

- **Visual Inspection:** Periodically inspect the slip ring for any signs of physical damage, wear, or loose connections.
- **Cleaning:** If operating in a dusty environment, gently clean the exterior of the slip ring with a dry, soft cloth. Avoid using liquids or abrasive cleaners.
- **Contact Inspection:** For advanced maintenance, if accessible, inspect the brush contacts for excessive wear. This typically requires specialized tools and knowledge.
- **Lubrication:** The slip ring is pre-lubricated for life and generally does not require additional lubrication.

8. TROUBLESHOOTING

If you encounter issues with your slip ring, consider the following troubleshooting steps:

- **No Signal/Power Transmission:**
 - Check all wiring connections for looseness or incorrect polarity.
 - Verify the power source or signal generator is functioning correctly.
 - Inspect for any visible damage to the slip ring wires or housing.
- **Intermittent Connection:**
 - Ensure the slip ring is securely mounted and not experiencing excessive vibration.
 - Check for any debris or foreign objects that might be interfering with the contacts.
 - Verify that the rotational speed is within the specified limits.
- **Excessive Noise or Heat:**
 - Discontinue operation immediately.
 - Check for mechanical binding or misalignment.
 - Ensure the current load does not exceed the slip ring's maximum rating.

If problems persist after troubleshooting, contact the manufacturer or a qualified technician.

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact

Taidacent directly. General support inquiries can be directed to the seller or manufacturer.

You can visit the Taidacent Store for more product information and support options:[Taidacent Store](#)

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