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› RACO 232 Square Steel Electrical Box User Manual

RACO 232

RACO 232 Square Steel Electrical Box User Manual

Model: 232

INTRODUCTION

This manual provides essential information for the proper installation, use, and maintenance of the RACO 232 4-inch square steel electrical box. This product is designed for use in electrical wiring systems to house electrical connections and devices, providing protection and organization.



An image showing the RACO 232 4-inch square steel electrical box, featuring multiple knockouts on its sides for conduit connections.

SETUP AND INSTALLATION

The RACO 232 electrical box is designed for screw-in installation. Always ensure power is disconnected before beginning any electrical work.

1. **Safety First:** Turn off power at the main circuit breaker before starting installation. Verify with a voltage tester.
2. **Mounting:** Securely mount the electrical box to a stud or other suitable structural element using appropriate screws through the designated mounting holes. Ensure the box is level and flush with the finished surface if applicable.
3. **Conduit Connection:** Remove the necessary knockouts for your conduit runs. Use appropriate conduit connectors to secure conduits to the box openings.
4. **Wiring:** Pull electrical wires through the conduits and into the box. Ensure proper wire stripping and connection techniques are followed according to local electrical codes.
5. **Grounding:** Connect the grounding wire to the grounding screw or clip inside the box.

Consult local electrical codes and a qualified electrician if you are unsure about any installation steps.

OPERATING PRINCIPLES

The RACO 232 electrical box serves as a protective enclosure for electrical wiring connections, switches, and receptacles. It does not have active operational components but is integral to the safe and organized functioning of an electrical system. Its primary function is to:

- Protect wiring from physical damage.
- Contain electrical arcs or sparks in case of a fault.
- Provide a secure and accessible location for making wire splices and connections.
- Facilitate the installation of electrical devices like outlets or switches.

MAINTENANCE

The RACO 232 steel electrical box requires minimal maintenance due to its durable construction. However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the box for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the interior of the box remains free from dust, debris, or moisture, which can compromise electrical integrity.
- **Secure Connections:** If accessible and safe to do so (with power off), verify that all wire connections within the box are secure and tight.
- **Environmental Factors:** Ensure the box is not exposed to conditions beyond its intended use, such as excessive moisture or extreme temperatures, unless specifically rated for such environments.

TROUBLESHOOTING

Issues related to an electrical box are typically symptoms of problems with the wiring or devices housed within it. Always disconnect power before troubleshooting.

Problem	Possible Cause	Solution
Loose connections inside the box	Improper wiring, vibration, or thermal expansion/contraction.	Turn off power. Re-tighten all wire connections.
Corrosion on box or connections	Exposure to moisture or corrosive agents.	Turn off power. Clean corroded areas. If severe, replace the box or affected components. Ensure proper sealing if in a damp location.
Box not securely mounted	Inadequate fasteners or improper installation.	Turn off power. Re-secure the box using appropriate fasteners and techniques.

SPECIFICATIONS

- **Model Number:** 232
- **Material:** Alloy Steel
- **Dimensions:** 4 inches (Square)

- **Depth:** 2-1/8 inches
- **Knockouts:** 1/2-inch and 3/4-inch
- **Installation Type:** Screw-In
- **Finish Type:** Steel
- **Item Weight:** Approximately 0.01 Ounces (as per product data, actual weight may vary)

WARRANTY AND SUPPORT

Specific warranty information for the RACO 232 electrical box is not provided in the available product data. For warranty claims or technical support, please contact RACO customer service directly or refer to the official RACO website for the most current information.

RACO Official Website: www.hubbell.com/raco/en/ (This is a general link to the brand's parent company, Hubbell, which owns RACO.)

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