

Sigma Engineered Solutions 14236

Sigma Engineered Solutions 14236 Weatherproof Extension Ring User Manual

Model: 14236

1. INTRODUCTION

The Sigma Engineered Solutions 14236 Weatherproof Extension Ring is designed to increase the capacity of a standard weatherproof electrical box. Its robust die-cast construction ensures durability and prevents moisture penetration, making it suitable for various outdoor and indoor applications. This extension ring is powder-coated for enhanced corrosion resistance and includes all necessary closure plugs, hardware, and a gasket for a complete installation.

2. PRODUCT FEATURES

- **Increased Capacity:** Provides additional space for wiring within a 4-inch round weatherproof box.
- **Durable Construction:** Made from rugged die-cast metal for long-lasting performance.
- **Weatherproof Design:** Prevents moisture ingress, suitable for wet, damp, or dry locations.
- **Corrosion Resistance:** Features a powder-coated finish to protect against environmental elements.
- **Complete Kit:** Includes four 1/2-inch knockouts, closure plugs, mounting hardware, and a gasket.
- **Reinforced Outlets:** Connector outlets are reinforced for secure installation.



Figure 2.1: Key features of the Sigma 14236 Extension Ring, highlighting its capacity, included components, and suitability for various environments.

3. SPECIFICATIONS

Specification	Detail
Model Number	14236
Material	Die-cast Metal
Color	Gray
Product Dimensions (W x H)	4.2 inches x 1.6 inches
Item Weight	0.2 Pounds
Knockouts	Four 1/2-inch
Capacity	16.5 cubic inches
Included Components	Closure plugs, hardware, gasket

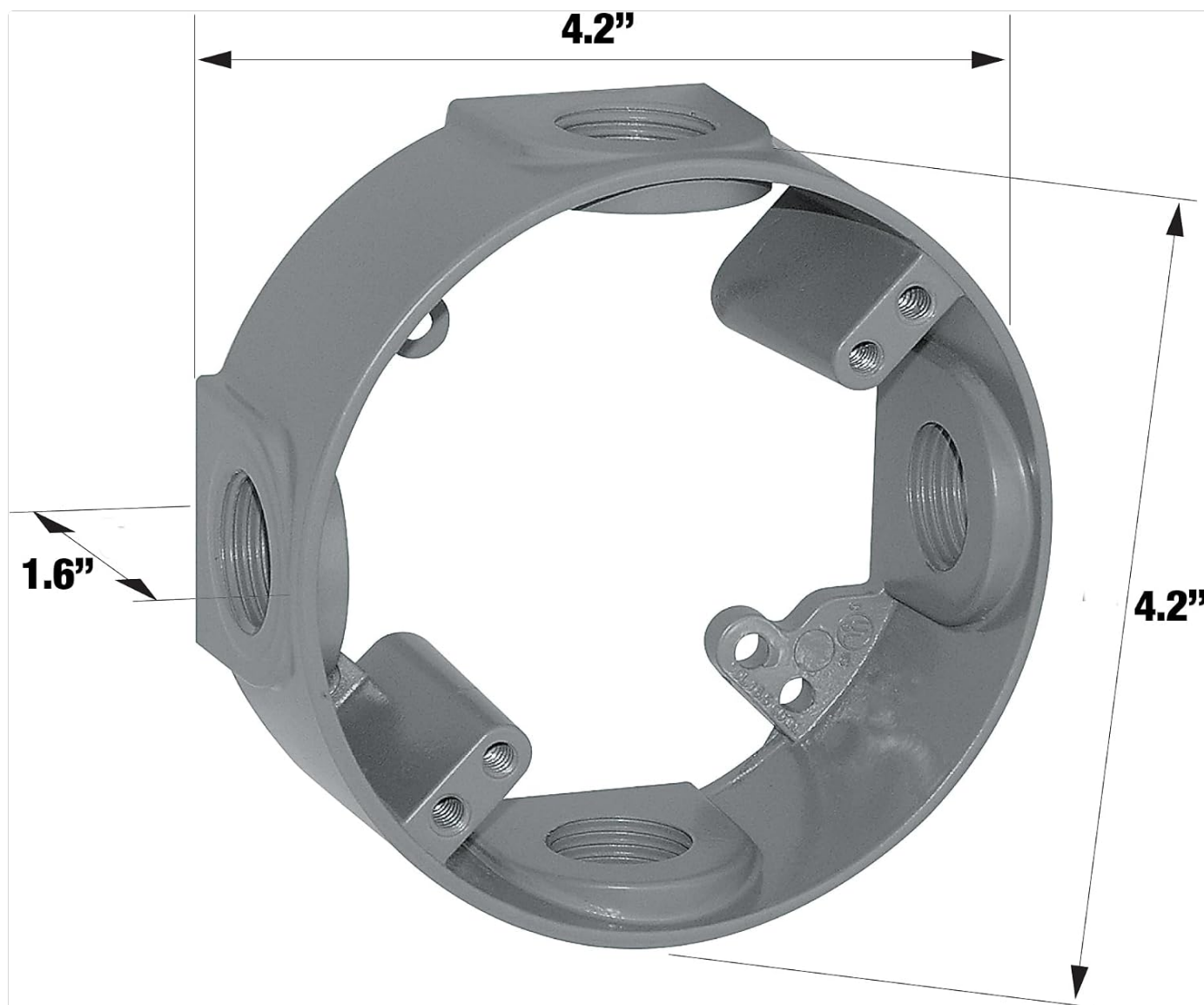


Figure 3.1: Dimensional overview of the Sigma 14236 Extension Ring.

4. INSTALLATION INSTRUCTIONS

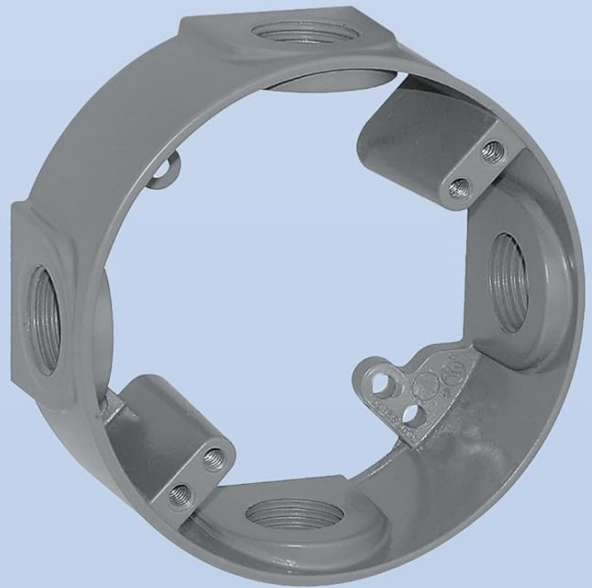
This extension ring is designed to be installed between an existing 4-inch round weatherproof electrical box and a cover or fixture. Ensure all power to the circuit is turned off at the main breaker before beginning installation.

1. **Safety First:** Turn off power at the circuit breaker or fuse box before starting any electrical work. Verify power is off using a voltage tester.
2. **Prepare the Existing Box:** If a cover or fixture is currently installed, carefully remove it from the existing weatherproof box. Disconnect any wiring as necessary.
3. **Position the Gasket:** Place the provided gasket onto the back of the extension ring, ensuring it aligns with the mounting holes. This gasket helps maintain the weatherproof seal.
4. **Mount the Extension Ring:** Align the extension ring with the existing weatherproof box. Secure the extension ring to the box using the provided hardware. Ensure a snug fit to maintain weather resistance.
5. **Wire Connections:** Route any necessary wiring through the extension ring. Utilize the additional space provided by the extension ring for wire management and connections.
6. **Install Cover/Fixture:** Attach the original weatherproof cover or electrical fixture to the front of the extension ring using appropriate hardware. Ensure all connections are secure and the cover/fixture is properly sealed.
7. **Seal Unused Openings:** Insert the provided closure plugs into any unused 1/2-inch knockout holes on the extension ring to maintain its weatherproof integrity.

8. **Restore Power:** Once installation is complete and all connections are secure and sealed, restore power to the circuit at the main breaker.

Features

- ✓ Used to provide additional capacity to a weatherproof box for larger fill requirements
- ✓ Gasket, hardware and closure plugs
- ✓ Suitable for dry locations



EXTENSION RING

Figure 4.1: Front view of the extension ring, illustrating knockout locations.

5. MAINTENANCE

The Sigma 14236 Weatherproof Extension Ring requires minimal maintenance. Periodically inspect the installation for any signs of wear, damage, or compromised seals, especially in outdoor or damp environments.

- **Visual Inspection:** Annually check the extension ring and surrounding components for cracks, corrosion, or loose connections.
- **Seal Integrity:** Ensure the gasket and closure plugs remain intact and provide a tight seal against moisture. Replace if damaged.
- **Cleaning:** If necessary, clean the exterior with a damp cloth. Avoid abrasive cleaners or solvents that could damage the powder-coated finish.

6. TROUBLESHOOTING

Most issues related to the extension ring are typically associated with improper installation or damage. Always ensure power is off before inspecting electrical components.

- **Moisture Inside Box:**

- Check if the gasket is properly seated and undamaged.
- Ensure all unused knockouts are sealed with closure plugs.
- Verify that the cover or fixture attached to the extension ring is also properly sealed.

- **Loose Connection/Ring:**

- Tighten all mounting screws securing the extension ring to the electrical box.
- Ensure the cover/fixture is securely attached to the extension ring.

- **Corrosion:**

- While the ring is powder-coated for resistance, extreme conditions can cause wear. Ensure proper sealing to prevent moisture ingress, which can accelerate corrosion.
- If significant corrosion occurs, replacement may be necessary.

7. CERTIFICATIONS AND STANDARDS

The Sigma 14236 Weatherproof Extension Ring meets the following industry standards:

- **CSA Listed:** Certified by the Canadian Standards Association.
- **UL Listed:** Underwriters Laboratories listed for safety.
- **NEMA 3R Compliant:** Meets National Electrical Manufacturers Association standards for outdoor enclosures, providing protection against rain, sleet, and external ice formation.



Figure 7.1: Certifications and standards for the extension ring.

8. WARRANTY AND SUPPORT

For warranty information and technical support regarding the Sigma Engineered Solutions 14236 Weatherproof Extension Ring, please refer to the manufacturer's official website or contact their customer service department directly. Specific warranty terms and conditions are provided by Sigma Engineered Solutions.

Manufacturer: Sigma Electric

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