

Carlon E981FFN

Carlon E981FFN 1-Inch Type FSC 1-Gang FS PVC Switch Box Instruction Manual

Non-Metallic Electrical Enclosure for Damp and Wet Locations

1. INTRODUCTION

This manual provides instructions for the installation and maintenance of the Carlon E981FFN 1-Inch Type FSC 1-Gang FS PVC Switch Box. This non-metallic electrical enclosure is designed for use in damp and wet locations, providing protection for electrical connections and devices.

2. SAFETY INFORMATION

WARNING: Electrical work should only be performed by qualified personnel. Always disconnect power at the circuit breaker or fuse box before installing, servicing, or removing this product. Failure to do so may result in serious injury or death.

- Ensure all local and national electrical codes are followed.
- Verify that the product is suitable for the intended application and environment.
- Do not exceed the maximum voltage and current ratings of the box or any installed devices.
- Keep the box free from debris and moisture during installation.

3. PRODUCT OVERVIEW

The Carlon E981FFN is a 1-gang FS PVC switch box, specifically designed for feed-thru applications. Its non-metallic construction makes it resistant to corrosion, and it is rated for damp and wet locations, offering drip-proof protection.



Figure 1: Interior view of the Carlon E981FFN switch box. This image displays the internal structure, including the mounting posts for devices and the circular knockouts for conduit connections. The text "Carlon" and "DAMP AND WET LOCATIONS DRIPPROOF" are visible inside the box.





Figure 2: Exterior view of the Carlon E981FFN switch box. This image shows the back of the gray PVC box, featuring a white label with the model number E981FFN and a barcode (UPC: 0034481049012).

4. SETUP AND INSTALLATION

The Carlon E981FFN switch box is designed for screw-in installation. Follow these general steps:

1. **Prepare the Location:** Ensure the mounting surface is clean, dry, and structurally sound.
2. **Disconnect Power:** Turn off power to the circuit at the main electrical panel. Verify with a voltage tester.
3. **Mount the Box:** Position the box and secure it to the mounting surface using appropriate screws through the designated mounting holes.
4. **Connect Conduit:** Remove the necessary knockouts and connect 1-inch PVC conduit to the box. Ensure a watertight seal for wet locations.
5. **Install Devices:** Mount the switch or other electrical device(s) inside the box using the internal mounting posts.
6. **Wire Connections:** Make all necessary electrical connections according to wiring diagrams and local codes.
7. **Secure Cover:** Install the appropriate cover (not included) to the switch box, ensuring a tight seal.
8. **Restore Power:** Once installation is complete and verified, restore power to the circuit.

5. OPERATING INSTRUCTIONS

This product functions as a protective enclosure for electrical switches, receptacles, or other wiring devices. Once installed and wired correctly, the electrical devices housed within the box will operate as intended. The box itself does not have operational controls; its purpose is to provide a safe, enclosed environment for electrical components, particularly in damp or wet conditions.

6. MAINTENANCE

Regular inspection and maintenance can help ensure the longevity and safe operation of your electrical system.

- **Periodic Inspection:** Annually inspect the box for any signs of physical damage, cracks, or loose connections.
- **Cleaning:** Clean the exterior of the box with a damp cloth as needed. Avoid using harsh chemicals or abrasive cleaners.
- **Seal Integrity:** For wet locations, periodically check the integrity of the seals around conduit entries and the cover to ensure continued drip-proof protection.
- **Tighten Connections:** If accessible and safe to do so (with power disconnected), periodically check and tighten any loose wiring connections inside the box.

7. TROUBLESHOOTING

This switch box is a passive component. Most issues will relate to the electrical devices or wiring contained within it. If you experience electrical problems, consider the following:

- **No Power to Device:** Check the circuit breaker or fuse. Verify all wiring connections are secure and correct.
- **Water Intrusion:** If water is found inside the box, immediately disconnect power. Inspect conduit connections and the cover for proper sealing. Replace any damaged components.
- **Physical Damage:** If the box is cracked or severely damaged, it must be replaced to maintain electrical safety and environmental protection.

For complex electrical issues, consult a qualified electrician.

8. SPECIFICATIONS

Model Number	E981FFN
Brand	Carlton
Material	Polyvinyl Chloride (PVC)
Type	FSC, 1-Gang, FS Box
Conduit Size	1-Inch
Installation Type	Screw-In
Environmental Rating	Damp and Wet Locations (Drip-proof)
Color	Gray
Dimensions (L x W x H)	Approximately 5.5 x 3.8 x 2.5 inches
Item Weight	Approximately 4.8 ounces (0.3 Pounds)
Features	Non-Metallic, Feed-Thru

9. WARRANTY INFORMATION

For specific warranty details regarding the Carlon E981FFN switch box, please refer to the official Carlon manufacturer's documentation or contact Carlon customer support directly. Warranty terms and conditions may vary.

10. CUSTOMER SUPPORT

If you have questions about the Carlon E981FFN switch box, require technical assistance, or need to report an issue, please contact Carlon customer support. Visit the official Carlon website for contact information and additional resources.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question