

BAOMAIN RT1321

BAOMAIN DPDT ON/ON Toggle Switch RT1321 User Manual

Model: RT1321

1. INTRODUCTION

1.1 Product Overview

The BAOMAIN DPDT ON/ON Toggle Switch, model RT1321, is designed for reliable circuit control in various applications. This switch features a Double Pole Double Throw (DPDT) configuration with two stable ON positions, meaning it remains in the selected position until manually moved. It is rated for 15A at 250V AC and 20A at 125V AC, making it suitable for automotive, marine, and general electrical systems.

1.2 Intended Use

This toggle switch is intended for use in applications requiring a robust and durable ON/ON switching mechanism. Common uses include household appliances, industrial equipment, electronic projects, custom dashboards, and home consoles where moisture exposure is not a concern.

2. SAFETY INFORMATION

- Always disconnect power to the circuit before installing, servicing, or removing the switch to prevent electrical shock.
- Ensure proper wiring according to local electrical codes and the application's requirements.
- Do not exceed the specified voltage and current ratings (250VAC 15A, 125VAC 20A) to avoid damage to the switch or connected devices.
- This switch is designed for indoor use where moisture exposure is not a concern. Avoid installation in wet or excessively humid environments unless additional protective measures are taken.
- If you are unsure about any aspect of installation or operation, consult a qualified electrician.

3. PACKAGE CONTENTS

Each package typically contains:

- BAOMAIN DPDT ON/ON Toggle Switch (Model RT1321) - Quantity as purchased (e.g., 2-Pack)
- Mounting hardware (nuts, washers)

Note: Additional wiring or tools are not included and must be sourced separately.

4. PRODUCT FEATURES

The BAOMAIN RT1321 toggle switch offers a robust and reliable solution for various electrical control needs. Key features include:

- **DPDT ON/ON Configuration:** Double Pole Double Throw with two stable ON positions.
- **High Electrical Rating:** 15A at 250V AC, 20A at 125V AC.
- **Durable Construction:** Designed for long-term performance with an electrical life of 10,000 cycles.
- **Wide Temperature Range:** Operates reliably from -25°C to 85°C (-13°F to 185°F).
- **6-Pin Screw Terminal:** Ensures secure and straightforward wiring connections.
- **Standard Mounting:** Features a 1/2" mounting hole for easy installation.



Image: A front view of the BAOMAIN RT1321 toggle switch, showing its robust construction and clear ON-ON labeling.

5. SPECIFICATIONS

Feature	Specification
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Model Number	RT1321
Switch Type	DPDT ON/ON Toggle Switch
Voltage Rating	250VAC 15A, 125VAC 20A
Number of Pins	6 Pin
Terminal Type	Screw Terminal
Mounting Hole Size	1/2 inch (approx. 12mm)
Electrical Life	10,000 cycles
Operating Temperature	-25°C to 85°C (-13°F to 185°F)
Contact Resistance	≤15mΩ
Insulation Resistance	≥100MΩ at 500V DC
Dielectric Strength	1000V AC for 1 minute
Material	Plastic, Copper
Product Dimensions	6.27 x 2.9 x 1.5 cm; 68 g

6. SETUP AND INSTALLATION

6.1 Mounting the Switch

The RT1321 toggle switch requires a 1/2 inch (approximately 12mm) mounting hole. Ensure the mounting surface is clean and stable. Secure the switch using the provided nuts and washers.

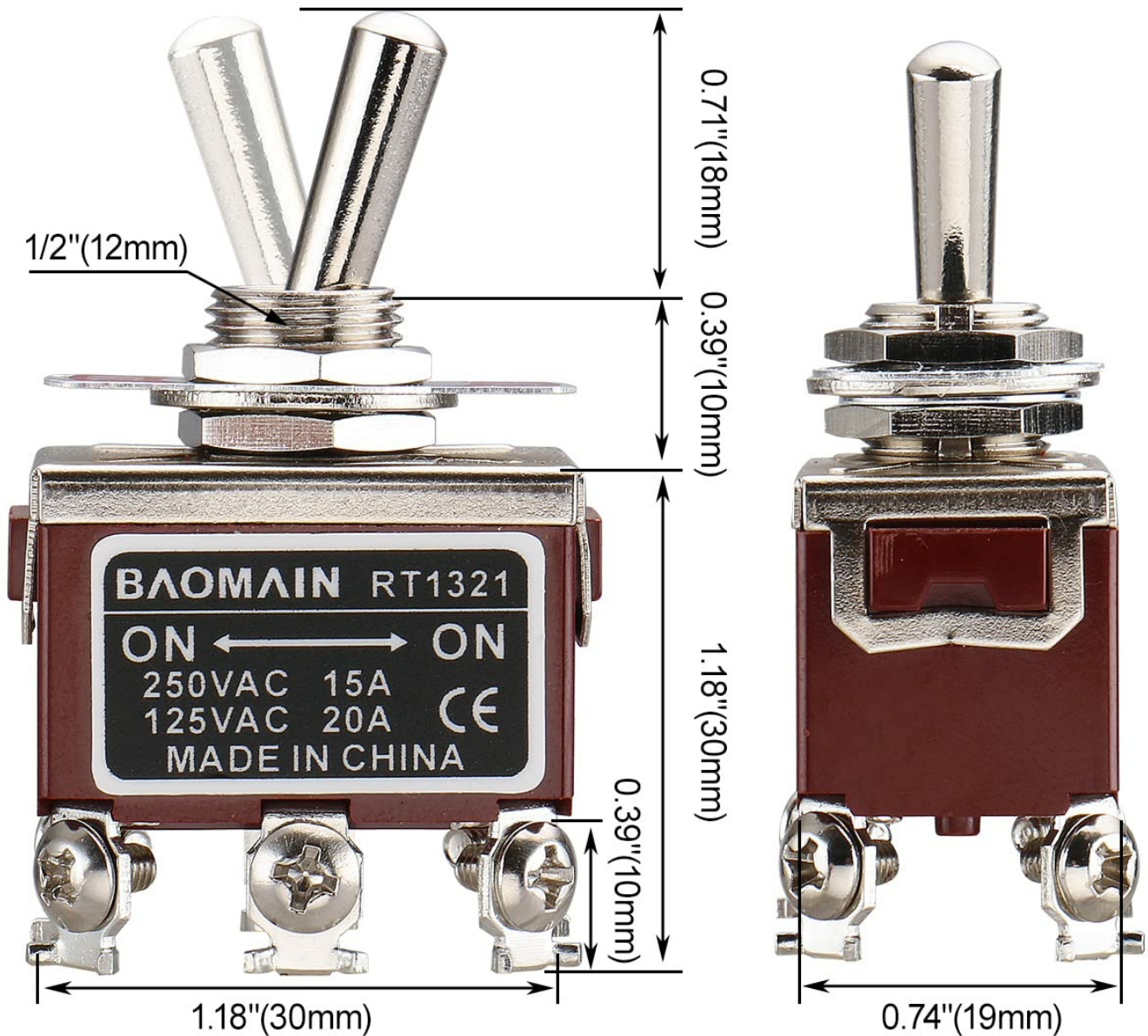


Image: Detailed dimensions of the BAOMAIN RT1321 toggle switch, indicating the 1/2 inch mounting hole and overall size.

6.2 Wiring Instructions

The RT1321 is a DPDT (Double Pole Double Throw) switch with 6 screw terminals. This configuration allows for controlling two separate circuits or reversing polarity in a single circuit. Refer to the diagram below for typical wiring connections. Always ensure power is disconnected before wiring.



Image: Underside view of the BAOMAIN RT1321 toggle switch, highlighting the 6 screw terminals for wiring connections.

For specific application wiring, consult relevant electrical diagrams. The DPDT ON/ON functionality means that when the toggle is in one extreme position, one set of contacts is closed, and when in the other extreme position, a different set of contacts is closed. There is no central OFF position.

6.3 Example Wiring Demonstration (Video)

The following video demonstrates a practical application of a 6-pin ON/ON mini toggle switch, controlling multiple devices simultaneously. While not the exact BAOMAIN RT1321, it illustrates the general wiring concept for similar DPDT ON/ON switches.



Video: Demonstration of a 6-pin ON/ON mini toggle switch controlling four devices simultaneously. This illustrates the switching action and potential wiring for DPDT ON/ON switches.

7. OPERATING INSTRUCTIONS

The BAOMAIN RT1321 is an ON/ON toggle switch. This means it has two stable operating positions:

- **Position 1 (ON):** When the toggle lever is pushed to one side, the switch activates the circuit connected to that position.
- **Position 2 (ON):** When the toggle lever is pushed to the opposite side, the switch activates the circuit connected to that second position.

There is no neutral or "OFF" position in the center. The switch will remain in the last selected ON position until manually moved again. Ensure the desired circuit is connected to the appropriate terminals for each ON state.



Image: Two BAOMAIN RT1321 toggle switches, illustrating the "ON" positions and the general appearance of the product.

8. MAINTENANCE

- **Cleaning:** Keep the switch clean and free from dust and debris. Use a dry, soft cloth for cleaning. Avoid using liquid cleaners directly on the switch.
- **Inspection:** Periodically inspect the wiring connections to ensure they are secure and free from corrosion. Check the switch body for any signs of physical damage.
- **Environment:** Ensure the switch is operated within its specified temperature range and in an environment free from excessive moisture or corrosive substances.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Switch does not activate circuit.	No power to the circuit, incorrect wiring, faulty connection, or damaged switch.	Verify power supply. Check all wiring connections for correctness and security. Inspect terminals for corrosion. Test the switch with a multimeter if possible.
Switch feels loose or wobbly after installation.	Mounting nut not tightened sufficiently.	Ensure the mounting nut is securely tightened. Avoid over-tightening the terminal screws, as this can affect the internal mechanism.
Intermittent operation.	Loose wiring, internal damage, or excessive wear.	Check all wiring connections. If connections are secure, the switch may be worn out and require replacement.

10. APPLICATIONS

The BAOMAIN RT1321 DPDT ON/ON toggle switch is versatile and can be used in a wide range of applications where reliable two-position switching is required. These include:

- Automotive and Marine systems (e.g., controlling lights, fans, or auxiliary equipment)
- Industrial machinery and control panels
- DIY electronics projects
- Household appliance modifications

APPLICATION



Image: A visual representation of various applications for toggle switches, such as in boats, cars, grinders, lawnmowers, and motorcycles, demonstrating the versatility of the product.

10.1 Toggle Switch Panel Example (Video)

This video showcases a toggle switch panel, providing an example of how these switches can be integrated into a control system. This can be useful for understanding potential mounting and application scenarios.



Video: A demonstration featuring a toggle switch panel, illustrating how toggle switches can be mounted and used in various control applications.

11. WARRANTY AND SUPPORT

BAOMAIN products are manufactured to high-quality standards. For specific warranty information or technical support, please refer to the product packaging or contact BAOMAIN customer service directly through their official channels. Keep your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

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.

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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