

Walfront Walfront1d7mgxbpws-03

Walfront Infinite Cycle On/Off Timer Relay Module Instruction Manual

Model: Walfront1d7mgxbpws-03

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Walfront Infinite Cycle On/Off Timer Relay Module. Please read this manual thoroughly before use to ensure safe and efficient operation. This module is designed for various applications requiring precise time-delayed switching.

2. PRODUCT OVERVIEW

The Walfront Timer Relay Module is a versatile electronic component featuring an adjustable time delay. It is suitable for controlling electrical circuits with specific timing requirements. Key features include:

- **Input Power Supply:** AC 220V
- **Load Capacity:** 10A, 250V AC / 10A, 30V DC
- **Adjustable Time Delay:** High precision with a 2% error margin.
- **Multiple Time Ranges:** 0-10 seconds, 0-10 minutes, 0-100 minutes, and 0-10 hours.
- **Functionality:** Connects power, then disconnects after a set delay.
- **Applications:** Operating timers, household appliances, delay lighting, factory automation, and general time delay control.

3. SPECIFICATIONS

Parameter	Value
Brand	Walfront
Model Number	Walfront1d7mgxbpws-03
Color	Blue
Power	8 Watts

Parameter	Value
Voltage	1 Volts (Operating Voltage: AC 220V)
Material	PCB Board
Item Weight	40 g
Product Dimensions	2P x 5.8L x 2H centimeters
Number of Settings	4 (Time Ranges)
UPC	736691566999

4. SETUP AND WIRING

Proper wiring is crucial for the safe and correct operation of the timer relay module. Refer to the image below for terminal identification and connection points.

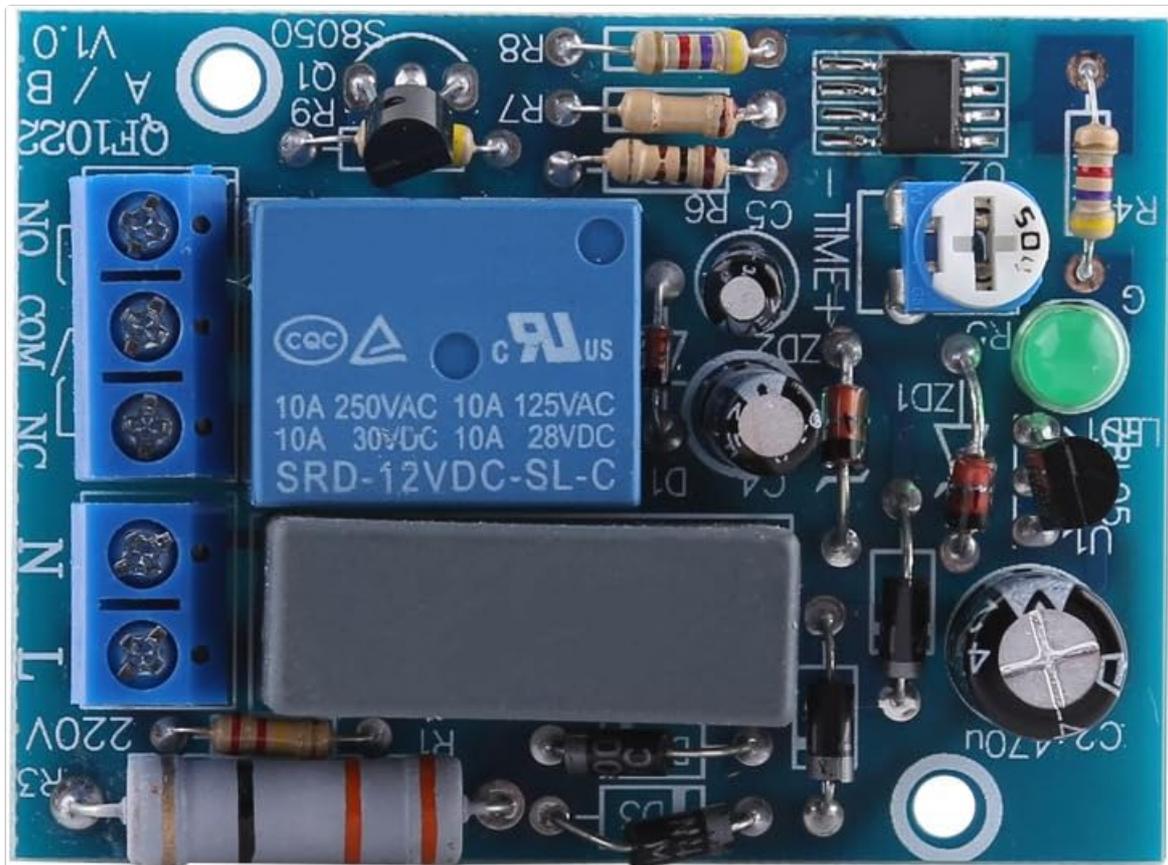


Image 1: Top view of the Walfront Timer Relay Module, showing input power terminals (220V, N, L) and relay output terminals (NO, COM, NC). The blue potentiometer for time adjustment is also visible.

4.1 Terminal Identification

- **220V, N, L:** These are the input terminals for the AC 220V power supply. 'L' is for Live, 'N' is for Neutral.
- **NO (Normally Open):** This relay contact is open when the relay is de-energized and closes when the relay is energized.
- **COM (Common):** This is the common terminal for the relay contacts.
- **NC (Normally Closed):** This relay contact is closed when the relay is de-energized and opens when the relay is energized.

4.2 Basic Wiring Procedure

1. **Power Connection:** Connect your AC 220V power supply to the '220V', 'N', and 'L' terminals. Ensure correct polarity for Live and Neutral.
2. **Load Connection:** Connect your device (load) to the relay output terminals (NO, COM, NC) based on your application's requirements. For example, to switch a device ON after a delay, connect the device between NO and COM. To switch a device OFF after a delay, connect it between NC and COM.
3. **Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts and potential hazards.

Note: The connection terminals are designed for standard wire gauges. For multiple wires in a single terminal, ensure they fit securely without fraying.

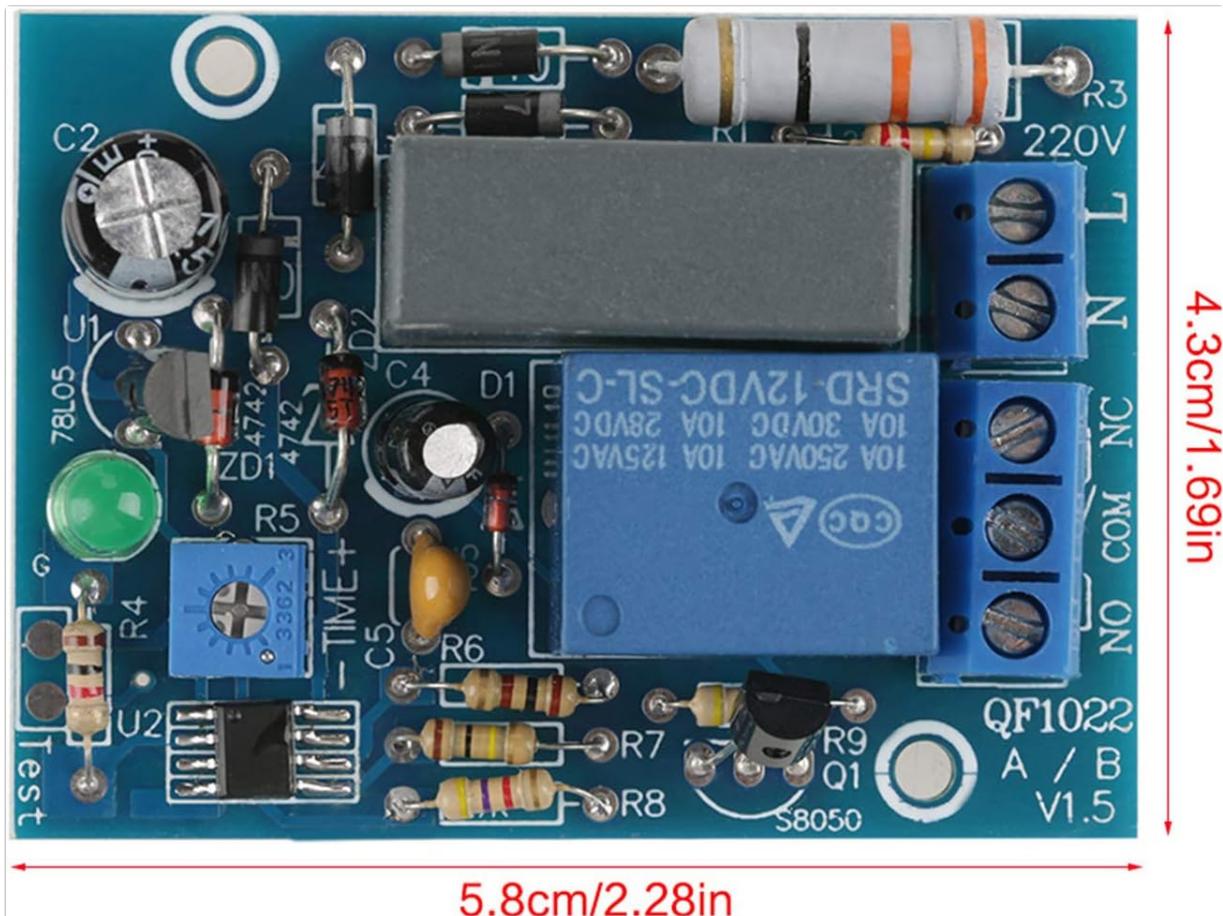


Image 2: Walfront Timer Relay Module showing physical dimensions (5.8cm x 4.3cm). This helps in planning installation space.

5. OPERATING INSTRUCTIONS

The module operates by initiating a time delay upon power application. After the set delay, the relay changes state (NO closes, NC opens). The module remains in this state until power is removed and reapplied.

5.1 Time Setting

The time delay is adjusted using the blue potentiometer (variable resistor) located on the PCB. This potentiometer allows for fine-tuning the delay within the selected range.

- **Adjustment:** Use a small screwdriver to carefully turn the potentiometer. Turning it clockwise typically increases the delay, while counter-clockwise decreases it.
- **Time Ranges:** The module supports multiple time ranges (0-10 seconds, 0-10 minutes, 0-100

minutes, 0-10 hours). The specific range selection method is not detailed in the product information, but typically involves jumpers or switches on the board. Refer to any markings on the PCB for range selection if available.

- **Calibration:** Since there is no digital display, the time setting requires trial and error. Apply power, observe the delay, and adjust the potentiometer as needed until the desired delay is achieved.

6. MAINTENANCE

The Walfront Timer Relay Module is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Keep Clean:** Ensure the module is free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- **Environmental Conditions:** Operate the module within its specified temperature and humidity ranges. Avoid extreme conditions.
- **Inspect Connections:** Periodically check all wiring connections for tightness and signs of wear or corrosion.
- **Avoid Physical Stress:** Do not subject the module to excessive vibration, shock, or bending.

7. TROUBLESHOOTING

If you encounter issues with your timer relay module, consider the following troubleshooting steps:

- **Module Not Powering On:**
 - Check the input power supply (AC 220V) for proper voltage and connection.
 - Verify that the 'N' and 'L' terminals are correctly wired.
- **Relay Not Activating/Deactivating:**
 - Ensure the module is receiving power.
 - Check the potentiometer setting. If set to a very short or very long delay, it might appear unresponsive.
 - Inspect the relay for any visible damage.
- **Incorrect Time Delay:**
 - Adjust the potentiometer carefully. Remember that precise setting may require multiple adjustments.
 - Confirm the correct time range is selected if there are jumpers or switches for this purpose.
- **Load Not Switching:**
 - Verify the load is correctly wired to the NO/COM/NC terminals.
 - Check the load itself to ensure it is functional and within the module's specified current/voltage limits (10A, 250V AC / 10A, 30V DC).

If problems persist after following these steps, consult a qualified electrician or contact Walfront customer support.

8. SAFETY INFORMATION

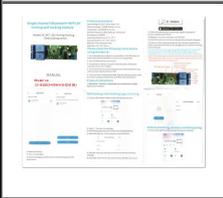
Always adhere to the following safety precautions when installing, operating, or maintaining the module:

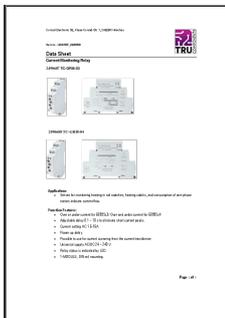
- **Electrical Safety:** This module operates with AC 220V. Always disconnect power before making any connections or adjustments to prevent electric shock.
- **Qualified Personnel:** Installation and wiring should be performed by qualified personnel familiar with electrical systems and safety standards.
- **Overload Protection:** Do not exceed the specified load capacity of 10A, 250V AC / 10A, 30V DC. Use appropriate fuses or circuit breakers for the connected load.
- **Environment:** Install the module in a dry, well-ventilated area, away from flammable materials, corrosive gases, and excessive heat or humidity.
- **Insulation:** Ensure all exposed wires and terminals are properly insulated to prevent short circuits.

9. WARRANTY AND SUPPORT

Specific warranty details for this product are not provided in the available information. For warranty claims, technical support, or further assistance, please refer to the retailer where the product was purchased or visit the official Walfront website.

Related Documents - Walfront1d7mgxpw-03

	<p>Quectel LG290P & LGx80P RTK Application Note for High-Precision GNSS Positioning</p> <p>This application note from Quectel provides detailed guidance on using the LG290P (03) and LGx80P (03) GNSS modules for high-precision Real-Time Kinematic (RTK) positioning, covering setup, connection, and troubleshooting.</p>
	<p>CK-BL602-4SW-HS-03(139) Yiweilian Smart Relay Module: User Manual and Setup Guide</p> <p>Detailed user manual for the CK-BL602-4SW-HS-03(139) single-channel smart relay module. Covers product parameters, wiring, setup with the Yiweilian (E-Welink) app, operating modes (inching, self-locking, interlocking), remote pairing, and troubleshooting.</p>
	<p>POWER TIME II Standard Program User Manual</p> <p>User manual for the POWER TIME II Standard Program, detailing its features for sports timing, including individual start, mass start, lap timing, speed measurement, and stopwatch functions. Covers setup, operation, and settings.</p>
	<p>GE Security INT-03 Safety Monitor Relay Datasheet and Specifications</p> <p>Comprehensive datasheet for the GE Security INT-03 Integrity Series Safety Monitor Relay. Includes technical specifications, installation guides, wiring diagrams, and safety features for industrial guard interlock applications.</p>



[TRU COMPONENTS Current Monitoring Relay TC-GRI8-03 & TC-GRI8-04 Data Sheet](#)

Comprehensive data sheet for TRU COMPONENTS Current Monitoring Relays, models TC-GRI8-03 and TC-GRI8-04. Details applications, function features, technical specifications, panel and function diagrams, wiring, and dimensions for these DIN rail mountable relays.



[GEVA Industrial Control Products Catalog - Relays and Protectors](#)

Explore the comprehensive range of GEVA industrial control products, including time relays, voltage relays, current monitoring relays, protectors, and essential accessories. This catalog provides detailed specifications, functions, and applications for enhancing electrical safety and automation.