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- › CEMELI /
- › CEMELI AH3-NB Multi-Function Timer Relay (110V) User Manual

CEMELI AH3-NB

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Model: AH3-NB

Operating Voltage: 110V AC

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the CEMELI AH3-NB Multi-Function Timer Relay. Please read this manual thoroughly before using the product to ensure proper function and safety. Adherence to these instructions will help prevent damage to the unit and ensure reliable performance.

2. PRODUCT OVERVIEW

The CEMELI AH3-NB is a versatile multi-time, multi-function timer relay designed for various industrial and automation applications. It features precise timing control and reliable switching capabilities, making it suitable for a wide range of control systems.



Figure 1: Front view of the CEMELI AH3-NB Timer Relay, showing the time setting dial and mode indicators, with a connection diagram visible on the side.



Figure 2: Side view of the CEMELI AH3-NB Timer Relay, highlighting the 8-pin base and a detailed connection diagram for wiring.



Figure 3: Top-down view of the CEMELI AH3-NB Timer Relay, clearly displaying the connection diagram and the arrangement of the pins.



Figure 4: Angled view of the CEMELI AH3-NB Timer Relay, showcasing the transparent time setting dial and the overall compact casing.

3. KEY FEATURES

- Multi-time range settings: 3 seconds, 30 seconds, 3 minutes, 30 minutes.
- Multi-function operation for diverse timing requirements.
- Compact design for easy integration into control panels.
- Clear connection diagram printed on the unit for straightforward wiring.
- High-quality resistive contact rating: 250VAC 5A.
- Standard 8-pin base for easy installation and replacement.
- Operating voltage: 110V AC (50/60Hz).

4. SETUP AND INSTALLATION

4.1 Safety Precautions

- Always ensure that the main power supply is disconnected before attempting any installation, wiring, or maintenance.

- Installation and wiring should only be performed by qualified and experienced personnel.
- Verify that the voltage supply matches the timer relay's specified operating voltage (110V AC) before connecting.
- Avoid touching live terminals.

4.2 Wiring Instructions

Refer to the connection diagram printed on the side of the timer relay (see Figure 2 and Figure 3) for detailed wiring information. The relay typically uses an 8-pin base. Ensure all connections are secure and correct to prevent malfunction or damage.

1. Identify the power supply terminals for 110V AC.
2. Connect the load to the appropriate contact terminals. The diagram will indicate Normally Open (NO) and Normally Closed (NC) contacts.
3. Ensure all wires are properly insulated and secured to their respective terminals.

4.3 Mounting

The timer relay is designed for panel mounting or socket mounting. Ensure adequate space and ventilation around the unit to prevent overheating and ensure optimal performance.

5. OPERATING INSTRUCTIONS

5.1 Setting the Time Range

The timer relay features a multi-range selector. Use the small switches or rotary selector on the front panel to choose the desired time unit (e.g., 'S' for seconds, 'M' for minutes). Ensure the correct range is selected for your application.

5.2 Setting the Time Value

Rotate the main dial on the front of the unit to set the specific time delay within the selected range. The dial is typically marked with numerical values corresponding to the time units. Adjust precisely to your required delay.

5.3 Mode Selection

If applicable, select the desired operating mode (e.g., ON-delay, OFF-delay) using the 'MODE' switch or selector on the front panel. Refer to the product's specific mode definitions for your application.

5.4 Powering On

Once wired and settings are configured, apply power to the unit. The 'ON' indicator light should illuminate, and the timer will begin its cycle according to the set parameters. Observe the relay's operation to confirm correct functionality.

6. MAINTENANCE

- Keep the timer relay clean and free from dust, dirt, and excessive moisture.
- Periodically check all wiring connections for tightness and signs of wear or corrosion.
- Avoid exposing the unit to extreme temperatures, direct sunlight, or corrosive chemical environments.
- The unit contains no user-serviceable parts. Do not attempt to open the casing, as this may void the warranty and expose you to electrical hazards.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Timer does not power on.	No power supply; incorrect wiring; faulty unit.	Check power source (110V AC). Verify wiring according to the diagram. If the problem persists, contact support.
Timer does not activate load.	Incorrect contact wiring; load issue; timer setting error.	Ensure the load is connected to the correct NO/NC terminals. Test the load independently. Recheck time and mode settings.
Inaccurate timing.	Incorrect time range/value setting; environmental factors.	Verify time range and value settings. Ensure a stable operating environment free from excessive electrical noise.

8. TECHNICAL SPECIFICATIONS

- **Model:** AH3-NB
- **Brand:** CEMELI
- **Operating Voltage:** 110V AC (50/60Hz)
- **Contact Rating:** 250VAC 5A Resistive
- **Time Ranges:** 3S, 30S, 3M, 30M (selectable)
- **Dimensions (Approximate Package):** 1.18 x 0.79 x 0.39 inches
- **Weight (Approximate):** 50 Grams (1.76 ounces)
- **Mounting:** Panel/Socket Mount

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your CEMELI AH3-NB Multi-Function Timer Relay, please contact your retailer or the manufacturer, CEMELI. It is recommended to keep your purchase receipt or proof of purchase for any warranty claims.

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