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› Omron H3CR-F8 AC100~240V Timer Instruction Manual

Omron H3CR-F8

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Model: H3CR-F8 AC100~240V / DC100-125V

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Omron H3CR-F8 AC100~240V Timer. This industrial timer is designed for precise timing control in various applications, featuring an 8-pin configuration and wide voltage compatibility. Please read this manual thoroughly before installation and operation.



Figure 1: Omron H3CR-F8 AC100~240V Timer. This image shows the front view of the timer, highlighting its compact design and the dial for setting timing parameters.

2. KEY FEATURES

- **Compact Design:** Front panel dimensions of 48 x 48 mm for efficient space utilization.
- **Wide Voltage Range:** Supports AC100~240V and DC100-125V models.
- **Extensive Timing Scales:** Adjustable timing from 0.05 seconds up to 300 hours.
- **Output Configuration:** DPDT (Double Pole Double Throw) 5A at 250VAC.
- **Transistor Output:** 100mA at 30VDC.

3. SETUP INSTRUCTIONS

1. **Mounting:** The timer is designed for panel mounting with a 48 x 48 mm front panel. Ensure adequate space and ventilation around the unit.
2. **Pin Configuration:** This is an 8-pin timer. Ensure the correct 8-pin socket is used for connection. Verify the

pin assignments according to the wiring diagram provided with the product packaging.

3. **Power Connection:** Connect the timer to a power source within the specified voltage range (AC100~240V or DC100-125V). Incorrect voltage can damage the unit.
4. **Load Connection:** Connect the controlled load to the DPDT output terminals. Observe the maximum current and voltage ratings (5A at 250VAC). For transistor output, adhere to 100mA at 30VDC.
5. **Initial Check:** Before applying full power, double-check all wiring connections for correctness and security.

4. OPERATING INSTRUCTIONS

1. **Setting Time Range:** The timer features a dial for setting the desired time range. Rotate the dial to select the appropriate scale (e.g., seconds, minutes, hours).
2. **Adjusting Time Value:** Use a small screwdriver to adjust the numerical value on the dial. This allows for fine-tuning the timing within the selected range. The displayed numbers will change as you adjust.
3. **Power On:** Once the desired time is set, apply power to the timer. The timer will begin its cycle according to the configured settings.
4. **Output Activation:** The DPDT or transistor output will activate or deactivate based on the timing cycle. Refer to the specific operating mode (e.g., ON-delay, OFF-delay) for your application.

5. MAINTENANCE

The Omron H3CR-F8 Timer is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Keep the timer clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the timer operates within its specified temperature and humidity ranges. Avoid exposure to excessive moisture, corrosive gases, or strong vibrations.
- **Connection Checks:** Periodically inspect wiring connections to ensure they remain secure and free from corrosion.

6. TROUBLESHOOTING

If the timer does not operate as expected, consider the following:

- **No Power:** Verify that the power supply is connected correctly and providing the specified voltage (AC100~240V or DC100-125V). Check fuses or circuit breakers.
- **Incorrect Timing:** Ensure the time range and value are set correctly using the adjustment dial and screwdriver.
- **Output Not Activating:** Check the load connections and ensure the load itself is functioning correctly. Verify that the timer has completed its 'off' cycle before expecting an 'on' cycle, as some applications require this sequence.
- **Loose Connections:** Inspect all wiring for loose or damaged connections.
- **Wrong Model:** Confirm that the installed timer is indeed the H3CR-F8 (8-pin) and not an 11-pin version, and that its voltage rating matches your system.

If issues persist after performing these checks, contact customer support.

7. SPECIFICATIONS

Specification	Value
Brand	Omron
Model Number	H3CR-F8 AC100-240
Input Voltage	AC100~240V / DC100-125V
Pin Configuration	8-pin
Timing Scales	0.05 seconds to 300 hours
Output Type	DPDT 5A 250VAC, Transistor 100mA 30VDC
Front Panel Size	48 x 48 mm
Item Weight	0.1 Kilograms
Material	Plastic Or Metal
Color	Gray

8. WARRANTY AND SUPPORT

Omron products are manufactured to high-quality standards. For warranty information and technical support, please refer to the official Omron website or contact your local Omron distributor. Keep your purchase receipt for warranty claims.

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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