

Omron H3CR-A

OMRON H3CR-A Multi-Function Solid-State Timer Instruction Manual

Model: H3CR-A AC100-240/DC100-125

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the OMRON H3CR-A Multi-Function Solid-State Timer. The H3CR-A is a versatile industrial timer designed for precise control in various applications, offering multiple operating modes and a wide time setting range. Please read this manual thoroughly before installation and operation, and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect all power before working on the timer or its associated circuitry.

- Ensure the power supply voltage matches the timer's specifications (AC100-240V or DC100-125V).
- Do not operate the timer in environments exceeding its specified temperature and humidity ranges.
- Verify all wiring connections are secure and correct before applying power.
- Avoid exposing the timer to excessive vibration, shock, or corrosive gases.

3. PRODUCT OVERVIEW

The OMRON H3CR-A is an 11-pin, DPDT (Double Pole Double Throw) relay output, multi-function solid-state timer. It supports a broad timing range from 0.05 seconds up to 300 hours and operates on both AC (100-240V) and DC (100-125V) power supplies. Its compact design and robust construction make it suitable for various industrial control applications.



Image 1: OMRON H3CR-A Timer Product Box Label. This image displays the product packaging, clearly showing the model type H3CR-A, time range (1.2s to 300h), and voltage specifications (100 to 240 V AC, 100 to 125 V DC). The OMRON brand logo and manufacturing origin (Made in Indonesia) are also visible, along with a barcode and QR code.

4. SPECIFICATIONS

Feature	Specification
Model	H3CR-A
Operating Voltage	AC100-240V (50/60 Hz), DC100-125V
Time Range	0.05 seconds to 300 hours (adjustable)
Output Type	DPDT Relay Output
Number of Pins	11-PIN
Functions	Multi-Function (various operating modes)
Input Type	No-Voltage Input
Material	Metal, Plastic

Feature	Specification
Dimensions (D x W x H)	2.62" x 1.89" x 1.89" (66.5mm x 48mm x 48mm)
Item Weight	0.09 Kilograms (approx. 3.17 ounces)
Certifications	CSA, UL

5. SETUP

5.1 Mounting

The H3CR-A timer is designed for panel mounting or surface mounting using a compatible 11-pin socket (sold separately). Ensure the mounting location is stable, free from excessive vibration, and allows for adequate ventilation.

5.2 Wiring

Refer to the wiring diagram provided with your 11-pin socket and the timer's terminal designations. Ensure all connections are made correctly and securely. Incorrect wiring can lead to malfunction or damage.

- **Power Supply:** Connect the appropriate AC (100-240V) or DC (100-125V) power to the designated power terminals.
- **Control Input:** Connect the no-voltage input for starting/stopping the timer as per your application requirements.
- **Output Contacts:** Connect the DPDT relay output contacts to the controlled device.

6. OPERATING INSTRUCTIONS

The OMRON H3CR-A features front-panel controls for setting the time range, operating mode, and time value.

6.1 Time Range Setting

Use the rotary switch on the front panel to select the desired time unit (seconds, minutes, or hours) and the corresponding multiplier. For example, to set a time of 10 minutes, you would select the 'min' unit and an appropriate multiplier range.

6.2 Operating Mode Selection

The H3CR-A supports multiple operating modes (e.g., ON-delay, OFF-delay, interval, etc.). Refer to the detailed mode diagrams typically found on the timer's side or in a supplementary datasheet for specific mode selection procedures. A dedicated switch or dial is usually present for this purpose.

6.3 Time Value Setting

Once the time range and operating mode are selected, use the main time setting dial to adjust the precise time value within the chosen range. The timer will begin counting when the control input is activated, according to the selected mode.

7. MAINTENANCE

The OMRON H3CR-A is designed for long-term reliability with minimal maintenance. However, periodic checks are recommended:

- **Cleaning:** Keep the timer's exterior clean and free from dust and debris. Use a soft, dry cloth. Do not use

abrasive cleaners or solvents.

- **Connection Inspection:** Periodically check all wiring connections for tightness and signs of corrosion or damage.
- **Environmental Check:** Ensure the operating environment remains within the specified temperature and humidity limits.

8. TROUBLESHOOTING

If the timer does not operate as expected, perform the following basic checks:

- **No Power:** Verify that the power supply is connected and providing the correct voltage (AC100-240V or DC100-125V). Check fuses or circuit breakers.
- **Incorrect Wiring:** Double-check all wiring connections against the provided diagrams.
- **Improper Settings:** Ensure the time range, operating mode, and time value are set correctly for your application.
- **Control Input Issue:** Confirm that the control input signal is being properly applied and detected by the timer.
- **Damaged Unit:** If the above steps do not resolve the issue, the unit may be damaged. Do not attempt to repair it yourself.


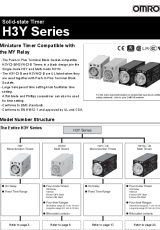
9. WARRANTY AND SUPPORT

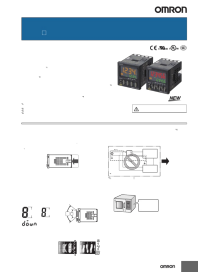

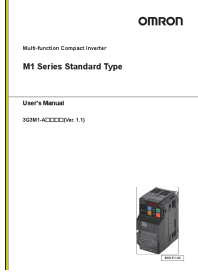

For warranty information, technical support, or service, please refer to the official OMRON website or contact your authorized OMRON distributor. Keep your purchase receipt for warranty claims.

OMRON Corporation

For further assistance, visit www.omron.com

Related Documents - H3CR-A

	<p>OMRON H3CR-H Series Solid-state Power OFF-delay Timer: Specifications and Operation</p> <p>Detailed specifications, ordering information, dimensions, and operational guidance for the OMRON H3CR-H series solid-state power OFF-delay timers. Includes model variations like H3CR-H8L, H3CR-H8RL, and H3CR-HRL.</p>
	<p>OMRON H3Y Series Solid-state Timers: Datasheet and Specifications</p> <p>Comprehensive datasheet for OMRON H3Y Series solid-state timers, detailing specifications, model numbers, features, applications, and technical data for H3Y, H3YN, H3Y-B, and H3YN-B models.</p>

	<p>OMRON H5CX Series Digital Timers: Technical Manual and Specifications</p> <p>Explore the OMRON H5CX series digital timers. This comprehensive manual covers features like ultra-short body, advanced functions, safety, specifications, operating procedures, and model configurations for industrial automation and control applications.</p>
	<p>OMRON G3VM MOS FET Relays Selection Guide - High Performance & Compact Solutions</p> <p>Explore OMRON's G3VM series of MOS FET Relays, offering ultra-low leakage current, high sensitivity, compact sizes, and long operational life. Find the ideal relay for your testing equipment, automation, and electronic applications.</p>
	<p>OMRON M1 Series Standard Type Multi-function Compact Inverter User's Manual</p> <p>Comprehensive user's manual for the OMRON M1 Series Standard Type Multi-function Compact Inverter (3G3M1 Series). Covers installation, wiring, operation, parameter settings, troubleshooting, specifications, and safety precautions for industrial automation applications.</p>
	<p>OMRON HEM-FL31 Manžeta Intelli Wrap - Upute za upotrebu</p> <p>Ovaj priručnik pruža detaljne upute za upotrebu OMRON Intelli Wrap manžete, model HEM-FL31, za precizno mjerenje krvnog tlaka. Sadrži informacije o pravilnom postavljanju, povezivanju, održavanju i tehničkim specifikacijama.</p>