

Electrodepot 934190

Electrodepot H3CA-A Multi-Function Timer User Manual

Model: 934190

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of the Electrodepot H3CA-A Multi-Function Timer. Please read this manual thoroughly before using the device and retain it for future reference.

IMPORTANT SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before installation or servicing. Only qualified personnel should perform installation and maintenance.

- Ensure all wiring complies with local and national electrical codes.
- Do not operate the timer in environments exceeding its specified temperature and humidity ratings.
- Verify correct voltage supply before connecting the device.

PRODUCT OVERVIEW

The Electrodepot H3CA-A is a versatile multi-function timer designed for various industrial and home automation applications. It features digital setting, 8 field-selectable operation modes, and a wide range of time settings from 0.1 seconds to 9,990 hours.

Key Features:

- Universal Voltage Model: 24-240 VAC/DC compatibility.
- LCD Time Remaining Bar Graph and Output Status display.
- Multi-Function: SPDT contact rating 3A 240VAC.
- Digital setting with 8 field-selectable operation modes.
- Time ranges from 0.1 seconds to 9,990 hours.
- Includes an 11-pin socket for panel or DIN rail mounting.



Figure 1: Front view of the H3CA-A timer showing the LCD display, time unit selector, and set time buttons. The LCD indicates control output status and remaining time via a bar graph.

SETUP AND INSTALLATION

Mounting:

The H3CA-A timer is designed for use with an 11-pin socket, allowing for either panel mounting or DIN rail mounting. Ensure the socket is securely fastened before inserting the timer.

Wiring Instructions:

Refer to the wiring diagram below for proper connection of power, inputs, and outputs. Ensure all connections are secure and insulated.



Figure 2: Wiring diagram for the H3CA-A timer, illustrating connections for Reset, Start, Gate, Check inputs, Power (pins 2 and 10), and SPDT output (pins 8, 9, 11).

1. **Power Supply:** Connect the universal voltage supply (24-240 VAC/DC) to pins 2 and 10.
2. **Control Inputs:** Connect Reset, Start, Gate, and Check inputs as required for your application. These inputs are typically connected to a common line.
3. **Output:** The timer provides a Single Pole Double Throw (SPDT) output. Connect your load to the common (pin 8), normally open (pin 9), and normally closed (pin 11) terminals as per your control requirements.

OPERATING INSTRUCTIONS

Powering On:

Once wired correctly, apply power to the timer. The LCD display will illuminate, and the timer will enter its default or last-saved operating mode.

Setting Time Ranges:

Use the "Time Unit Selector" buttons to choose the desired time unit (e.g., seconds, minutes, hours). The available ranges are from 0.1 seconds to 9,990 hours.

Setting Time Value:

Use the "Set Time" buttons to adjust the numerical value for the selected time range. The LCD will show the set time.

Selecting Operation Modes:

The H3CA-A offers 8 field-selectable operation modes. These modes determine how the timer functions in response to inputs and how its output behaves. Refer to the product documentation or the label on the device for specific instructions on how to select these modes, as this often involves internal DIP switches or specific button combinations.

A. A: ON-delay operation

- B. **B: Flicker operation**
- C. **C: Signal ON/OFF-delay operation (1)**
- D. **D: Signal OFF-delay operation (1)**
- E. **E: Interval operation**
- F. **F: One-shot and flicker operation**
- G. **G: Signal ON/OFF-delay operation (2)**
- H. **H: Signal OFF-delay operation (2)**

LCD Display Interpretation:

The LCD provides real-time feedback:

- **Control output ON/OFF indication:** Shows the current state of the timer's output relay.
- **Remaining time bar graph:** A visual representation of the remaining time, indicated by a pattern of bars in tenths (1/10) of the set time.

MAINTENANCE

The H3CA-A timer is designed for reliable operation with minimal maintenance. However, periodic checks can ensure optimal performance and longevity.

- **Cleaning:** Gently wipe the exterior of the timer with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Connection Check:** Periodically inspect wiring connections to ensure they are secure and free from corrosion.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity limits to prevent damage.

TROUBLESHOOTING

If you encounter issues with your H3CA-A timer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Timer does not power on.	No power supply or incorrect voltage.	Check power connections to pins 2 and 10. Verify voltage is within 24-240 VAC/DC range.
Output does not switch.	Incorrect wiring, mode selection, or time setting.	Review wiring diagram. Ensure correct operation mode is selected and time is set appropriately. Check load connection.
Inaccurate timing.	Incorrect time unit or value setting.	Verify the selected time unit (seconds, minutes, hours) and the set time value on the LCD.
LCD display is blank or erratic.	Power issue or internal fault.	Check power supply. If problem persists, contact customer support.

SPECIFICATIONS

Model Number	934190
Control Output	SPDT, 3 A @ 250 VAC
Operating Voltage	24-240 VAC/DC
Operation Modes	8 field-selectable modes
Time Ranges	0.1 seconds to 9,990 hours
Display	LCD with time remaining bar graph and output status
Mounting	11-pin socket (panel or DIN rail)
Package Dimensions	5.08 x 4.25 x 2.44 inches
Item Weight	6 ounces
Material	Plastic
Manufacturer	OMRON (as per product specifications)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. Keep your purchase receipt as proof of purchase.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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