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uxcell H3Y-2

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Model: H3Y-2

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the uxcell H3Y-2 24VDC DPDT 10 Seconds Delay Timer Time Relay with Base. This device is designed for industrial automation systems and mechanical equipment to provide precise time delay control.

SAFETY INFORMATION

WARNING: Electrical components can be hazardous. Always ensure power is disconnected before installation, wiring, or maintenance. Installation should be performed by qualified personnel only. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Verify the power supply voltage matches the relay's rated voltage (24VDC).
- Do not operate the relay in environments exceeding its specified temperature and humidity ranges.
- Ensure all connections are secure and properly insulated.

PRODUCT OVERVIEW

The uxcell H3Y-2 Time Relay consists of a delay timer unit and an 8-pin socket base. It features a DPDT (Double Pole Double Throw) contact type and a time range of 0-10 seconds. An LED indicator shows the power and output status.

Package Contents:

- 1 x H3Y-2 Time Relay
- 1 x 8-Pin Socket Base

SPECIFICATIONS

Feature	Specification
Product Name	Time Relay + Socket
Type	H3Y-2
Contact Type	DPDT (Double Pole Double Throw)
Source Voltage	DC 24V
Contact Rating	5A 250VAC Resistive Load
Time Range	0-10 Seconds
Number of Terminals	8 Pins
Mount Rail Type	3.5mm DIN Rail
Fixing Mount Hole Size	6 x 4mm (L*W)
Fixing Mount Center Hole Distance	59 x 15mm (L*W)
Total Size (Approx.)	68 x 22.5 x 88mm (L*W*H)
Net Weight	83g
Operation Mode	Automatic

SETUP

1. Mounting the Socket Base

The 8-pin socket base is designed for 3.5mm DIN rail mounting. Securely attach the base to a standard DIN rail in your control panel or enclosure. Ensure it is firmly seated to prevent movement.

2. Wiring the Socket Base

Before wiring, ensure all power sources are disconnected. Refer to the wiring diagram below for correct terminal connections. The relay operates on 24VDC. Connect the power supply and load according to the DPDT contact configuration.



Image: uxcell H3Y-2 Delay Timer Relay with its 8-pin socket base and a detailed wiring diagram. The diagram illustrates the DPDT contact configuration and power input terminals (DC/AC SOURCE).

Wiring Diagram Interpretation:

- Terminals 13 and 14 are for the DC 24V power input (source).
- The DPDT contacts provide two independent sets of normally open (NO) and normally closed (NC) contacts.
- Common terminals are typically 1 and 4.
- Normally Closed (NC) contacts are typically 5 and 8.
- Normally Open (NO) contacts are typically 9 and 12.
- Connect your load circuits to the appropriate contact terminals based on your application's requirements.

3. Inserting the Relay

Once the socket base is wired, carefully insert the H3Y-2 time relay into the 8-pin socket. Ensure all pins align correctly and the relay is fully seated.

OPERATING INSTRUCTIONS

1. Setting the Time Delay

The H3Y-2 relay features a large transparent time setting knob on its front face. Rotate this knob to set the desired time delay within the 0-10 second range. The markings on the knob indicate the time in seconds.

2. Powering On

After setting the time and ensuring all connections are secure, apply 24VDC power to the relay. The LED indicator will illuminate to show power status.

3. Operation Sequence

Upon receiving power, the relay will begin its time delay countdown. During this delay, the normally closed (NC) contacts remain closed, and normally open (NO) contacts remain open. Once the set time delay has elapsed, the relay will energize, causing the NC contacts to open and the NO contacts to close, transferring the controlled circuit automatically.

4. LED Indicators

- **Power LED:** Indicates that the relay is receiving power.
- **Output Status LED:** Indicates when the relay contacts have switched (after the time delay).

MAINTENANCE

The uxcell H3Y-2 Time Relay is designed for reliable operation with minimal maintenance. However, periodic checks are recommended:

- **Cleaning:** Keep the relay and socket free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Connection Checks:** Periodically inspect wiring connections to ensure they remain tight and secure. Loose connections can lead to intermittent operation or damage.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity limits to prolong the life of the device.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Relay does not power on (no Power LED).	No power supply, incorrect voltage, or faulty wiring.	Check 24VDC power supply. Verify wiring to terminals 13 and 14. Ensure relay is fully seated in the socket.
Relay powers on but contacts do not switch after delay.	Incorrect time setting, faulty relay, or incorrect load wiring.	Adjust time setting knob. Verify load wiring to DPDT contacts (1,4,5,8,9,12). Test relay with a known good load.
Inconsistent time delay.	Unstable power supply or environmental interference.	Ensure stable 24VDC power. Check for strong electromagnetic interference near the relay.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the purchase documentation or contact your vendor directly. uxcell products are designed for industrial applications, and specific warranty terms may vary by region and distributor.

