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Woljay H3Y-2

Woljay H3Y-2 Time Delay Relay Instruction Manual

Model: H3Y-2

1. Introduction

This manual provides essential information for the safe and effective use of the Woljay H3Y-2 Time Delay Relay. This device is designed for industrial automation control systems and mechanical equipment, offering high accuracy and reliable time-delayed switching. It features a wide voltage range, large contact capacity, and clear indicators for operational status.

2. Product Overview

2.1 Key Features

- Contact Resistive Load: AC 250V 5A
- Time Range: 0-30 Seconds
- Control Voltage: AC 24V
- Contact Type: DPDT (Double Pole Double Throw)
- Indicator Operation: Two LED Indicator Lights (Power and Output)
- Easy time setting knob, operable with flat-blade or Phillips screwdriver

2.2 Components

The Woljay H3Y-2 Time Delay Relay system consists of two main components: the H3Y-2 time delay relay unit and its compatible socket base.



Figure 1: The Woljay H3Y-2 Time Delay Relay (left) and its corresponding socket base (right). The relay plugs into the socket for electrical connection and mounting.



Figure 2: Close-up view of the H3Y-2 Time Delay Relay's plug-in pins, designed for secure insertion into the socket base.

3. Setup and Installation

3.1 Safety Precautions

- Always disconnect power to the circuit before installation or maintenance to prevent electrical shock.
- Ensure wiring is performed by a qualified professional in accordance with local electrical codes.
- Verify the control voltage (AC 24V) matches your power supply.

3.2 Mounting the Socket

The relay socket is designed for socket mounting. Secure the socket to a DIN rail or panel using appropriate fasteners. Ensure it is firmly attached to prevent movement during operation.

3.3 Wiring the Socket

Connect the control voltage (AC 24V) to the appropriate terminals on the socket. Wire the DPDT contacts to your load

circuit according to your application's requirements. Refer to the wiring diagram typically printed on the relay or socket for specific terminal assignments.

3.4 Inserting the Relay

Carefully align the pins of the H3Y-2 relay with the corresponding holes in the socket. Gently push the relay into the socket until it is fully seated and secure. Do not force the relay, as this may bend the pins.

4. Operation

4.1 Time Setting

The H3Y-2 relay features a transparent knob on its front face for setting the time delay. Rotate this knob to select a delay time within the 0-30 second range. For precise adjustments, a flat-blade or Phillips screwdriver can be used to turn the knob.

4.2 Indicator Lights

The relay is equipped with two LED indicators:

- **Power Indicator:** Illuminates when the control voltage is applied to the relay, indicating that the unit is powered.
- **Output Indicator:** Illuminates when the relay's output contacts are activated (after the set time delay has elapsed).

4.3 Function

Upon application of the control voltage, the internal timer begins counting. Once the set time delay has elapsed, the DPDT output contacts will switch state, activating or deactivating the connected load. The output indicator LED will confirm the contact status.

5. Maintenance

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

- **Visual Inspection:** Periodically inspect the relay and socket for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the relay and socket with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Connection Check:** Ensure all wiring connections to the socket remain tight and secure.

6. Troubleshooting

If you encounter issues with your H3Y-2 Time Delay Relay, refer to the following common problems and solutions:

- **Relay not powering on (Power LED off):**
  - Check if AC 24V control voltage is correctly applied to the socket terminals.
  - Verify the power source is active.
  - Ensure the relay is fully seated in its socket.
- **Relay powers on but output does not switch (Output LED off after delay):**
  - Confirm the time setting knob is not set to '0' or a very short duration.
  - Check the wiring to the load for continuity and correct connection.
  - Ensure the load itself is functional.

- **Incorrect time delay:**
  - Adjust the time setting knob carefully.
  - Ensure the relay is operating within its specified temperature and voltage ranges.

If problems persist after attempting these troubleshooting steps, contact customer support for further assistance.

7. Technical Specifications

Specification	Value
Model	H3Y-2
Time Range	0-30 Seconds
Control Voltage	AC 24V
Contact Type	DPDT
Contact Resistive Load	AC 250V 5A
Current Rating	5 Amps
Maximum Switching Current	5 Amps
Maximum Switching Voltage	250 Volts
Mounting Type	Socket Mount
Connector Type	Plug-In
Contact Material	Copper
Operation Mode	Automatic

8. Warranty and Support

For warranty information or technical support regarding your Woljay H3Y-2 Time Delay Relay, please refer to the product packaging or contact Woljay customer service directly. Ensure you have your product model number and purchase details available when seeking support.

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