

APIELE YJ48S-S

APIELE YJ48S-S 110V AC Digital Timer Relay Instruction Manual

Model: YJ48S-S

1. INTRODUCTION

The APIELE YJ48S-S is a versatile 110V AC digital timer relay designed for precise time control in various industrial and home automation applications. This 8-pin delay timer offers an adjustable time range from 0.1 seconds to 99 hours, making it suitable for a wide array of timing requirements. It comes with a base socket for easy DIN rail mounting, providing a reliable solution for automated control systems.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- Always disconnect power to the circuit before installing, wiring, or performing any maintenance on the timer relay.
- Installation and wiring should only be performed by qualified personnel familiar with electrical systems and safety procedures.
- Ensure that the supply voltage (AC 110V) matches the device's requirements.
- Do not exceed the specified contact capacity of 3A 250V AC resistive load. Overloading can damage the device and create a fire hazard.
- Do not operate the device in wet or damp conditions, or in environments with explosive gases or dust.
- Verify all connections are secure and correct before applying power.

3. PRODUCT OVERVIEW

The APIELE YJ48S-S timer relay features a clear digital display for time settings and status, along with intuitive adjustment buttons. It is designed for integration into control panels using its 8-pin base socket and DIN rail mounting capability.



Figure 3.1: Main view of the APIELE YJ48S-S Digital Timer Relay.

SHOW DETAILS



Figure 3.2: Detailed view of the digital display, adjustment buttons, and time unit selectors (S, M, H) on the timer relay.



Figure 3.3: Rear view of the timer relay, illustrating the 8-pin connector and the corresponding base socket for secure mounting and electrical connections.

4. SPECIFICATIONS

Feature	Specification
Model Number	YJ48S-S
Operating Voltage	AC 110V
Contact Capacity	3A 250V AC Resistive Load
Adjustable Time Range	0.1 seconds - 99 hours
Number of Terminals	8 pins
Dimensions (L*W*H)	48 x 48 x 105mm (1.9" x 1.9" x 4.1")
Connector Type	Plug-In

Contact Type	Normally Open
Mounting Type	DIN Rail Mount



Figure 4.1: Physical dimensions of the APIELE YJ48S-S timer relay and its base socket.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and reliable operation of the timer relay.

5.1 Mounting

1. Ensure power is disconnected from the installation area.
2. Mount the provided 8-pin base socket onto a standard DIN rail in your control panel.
3. Once the base is securely mounted, carefully insert the APIELE YJ48S-S timer relay into the base socket, ensuring all 8 pins align correctly.

5.2 Wiring

Refer to the wiring diagram below for correct electrical connections. Incorrect wiring can lead to device

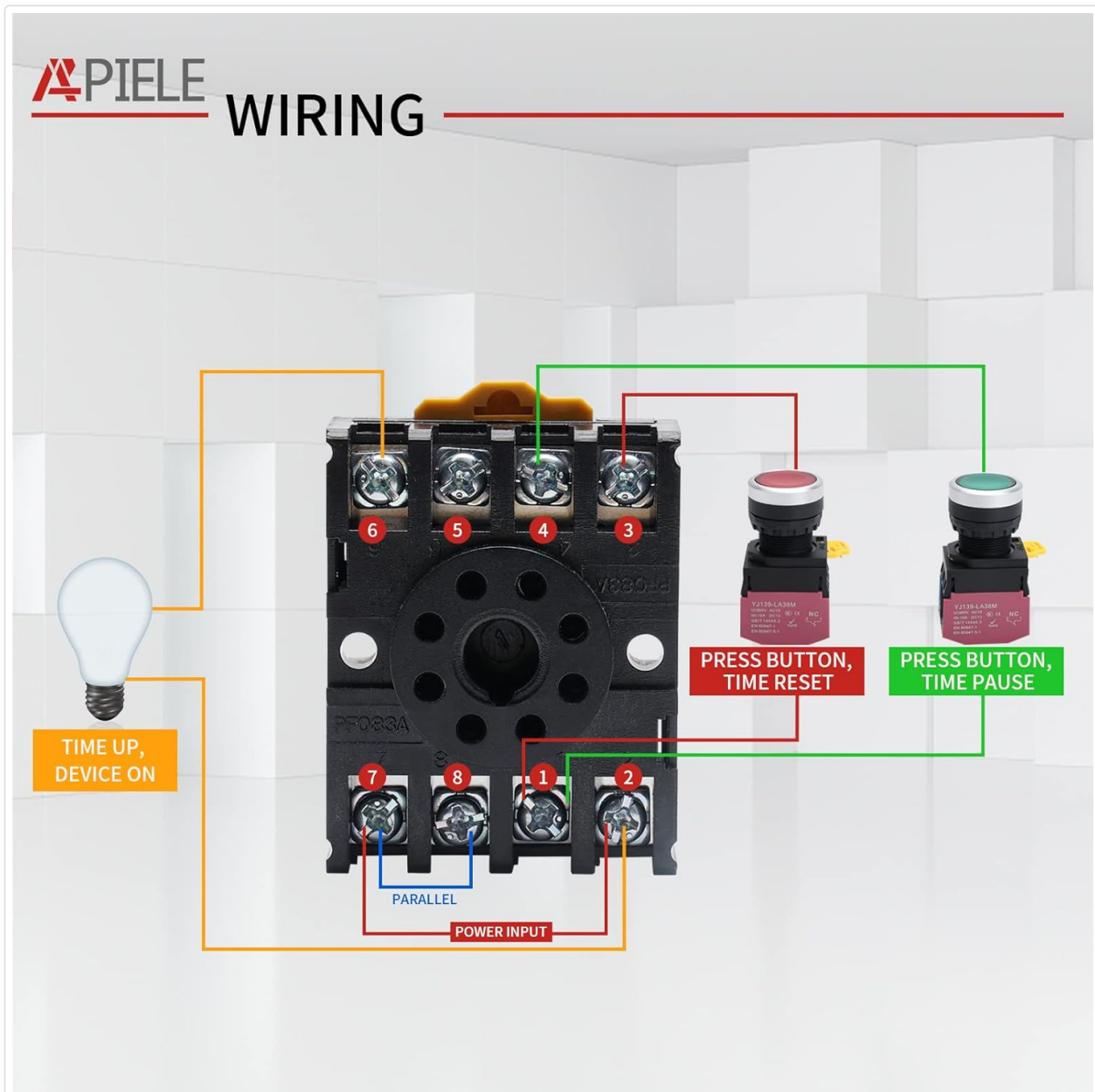


Figure 5.1: Detailed wiring diagram for the APIELE YJ48S-S timer relay, showing connections for power input, parallel circuits, and control buttons (Time Reset, Time Pause).

- **Power Input:** Connect the AC 110V power supply to the designated terminals on the base socket (typically pins 2 and 7).
- **Load Connection:** Connect your controlled device (load) to the appropriate output terminals (e.g., pins 1 and 8 for parallel connection, or pins 3, 4, 5, 6 depending on the desired contact configuration). The diagram shows a light bulb connected to pins 6 and 7, indicating that when time is up, the device turns on.
- **Control Buttons:** Optional external buttons for 'Time Reset' and 'Time Pause' can be wired to their respective terminals as shown in the diagram.
- Double-check all connections for tightness and correct polarity before restoring power.

6. OPERATING INSTRUCTIONS

The APIELE YJ48S-S timer relay operates as an ON/OFF cycle timer, repeating its set sequence indefinitely once powered. It features a digital display for easy time setting.

6.1 Powering On

After successful installation and wiring, apply AC 110V power to the timer relay. The digital display will illuminate.

6.2 Setting the Time Delay

1. **Select Time Unit:** Use the 'Switch different unit' button (refer to Figure 3.2) to cycle through available time units: Seconds (S), Minutes (M), or Hours (H).
2. **Adjust Time Value:** Use the '+' and '-' adjustment buttons to set the desired time value for both the ON and OFF cycles. The digital display will show the current setting. The adjustable range is from 0.1 seconds to 99 hours.
3. **Confirm Setting:** The timer will automatically save the setting after a few seconds of inactivity.

6.3 Operation Mode

The timer operates in a continuous cycle mode: it will remain ON for the set duration, then OFF for the set duration, and repeat this sequence as long as power is supplied. This is a key characteristic of this specific timer model.



Figure 6.1: Two APIELE YJ48S-S timer relays demonstrating their digital displays and 110V AC operating voltage.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your timer relay.

- **Cleaning:** The base socket is designed to be removable and washable. Disconnect power, remove the timer relay from its base, and clean the base with a dry, soft cloth. Avoid using abrasive cleaners or solvents.
- **Connection Check:** Periodically inspect all wiring connections to ensure they remain tight and free from corrosion. Loose connections can lead to intermittent operation or overheating.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

8. TROUBLESHOOTING

If you encounter issues with your APIELE YJ48S-S timer relay, refer to the following common troubleshooting steps:

- **Device Not Powering On:**
 - Check the main power supply to ensure AC 110V is present.
 - Verify that the power input wires are correctly connected to pins 2 and 7 of the base socket.
 - Ensure the timer relay is fully seated in its base socket.
- **Incorrect Timing or No Output:**
 - Confirm that the time settings (ON/OFF durations) are correctly entered and the appropriate time unit (S, M, H) is selected.
 - Check the load wiring to ensure the controlled device is properly connected and functioning.
 - Verify that the load current does not exceed the 3A 250V AC contact capacity.
 - If using external control buttons (Reset/Pause), ensure they are wired correctly and not stuck.
- **Timer Stops Unexpectedly:**
 - Perform a power cycle (turn off and on) to reset the device.
 - Ensure stable power supply. Fluctuations can affect operation.
 - If the issue persists, contact customer support for further assistance.

9. APPLICATION SCENARIOS

The APIELE YJ48S-S timer relay is suitable for a variety of applications requiring precise time-based control:

- Automatic control cabinet equipment
- Street light switch control
- Outdoor illuminated signboard control
- Highway lighting systems
- Industrial automation processes



Figure 9.1: Visual examples of typical application environments for the APIELE YJ48S-S timer relay, including industrial automation and outdoor lighting control.

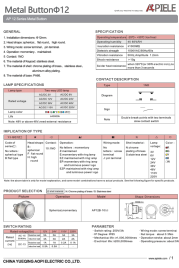
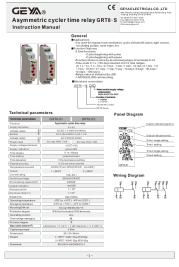



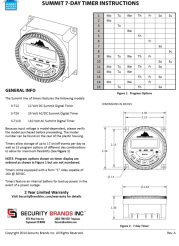
10. WARRANTY AND SUPPORT

10.1 Warranty Information

For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or visit the official APIELE website. Warranty coverage typically includes defects in materials and workmanship under normal use.

10.2 Customer Support

If you require technical assistance, have questions about installation, operation, or troubleshooting that are not covered in this manual, please contact APIELE customer support. Contact information can usually be found on the product packaging or the official APIELE website.

	<p>AP 12 Series Metal Button Specifications and Selection Guide</p> <p>Comprehensive technical specifications, parameters, and selection guide for the AP 12 Series metal buttons, including details on head shape, operation, contact types, lamp specifications, and switch ratings.</p>
	<p>GEYA GRT8-S Asymmetric Cycler Time Relay Instruction Manual</p> <p>Instruction manual for the GEYA GRT8-S Asymmetric Cycler Time Relay. Covers applications, function features, technical specifications, panel and wiring diagrams, and setting instructions for ventilation, lighting, and pump control.</p>
	<p>JKN MERTIMER Electronic Timers and Counters: Comprehensive Product Catalog</p> <p>Explore the extensive range of JKN MERTIMER electronic timers and digital counters. This catalog details On Delay, Recycling, Digital, Star-Delta, Power Off-Delay, Subminiature, and other timer types, along with digital counters. Includes model numbers, detailed specifications, features, connection diagrams, timing charts, ordering information, and socket base details.</p>
	<p>NUX Time Core Deluxe MKII Guitar Delay Pedal User Manual</p> <p>Comprehensive user manual for the NUX Time Core Deluxe MKII guitar delay pedal, detailing its 7 delay effects, looper, controls, connections, features, and technical specifications. Learn how to use its Phi Digital, Analog, Modulation, Tape Echo, Pan, Verb, and Reverse delay modes, plus the S.O.S. phrase looper.</p>
	<p>ISMACONTROLLI SfAR-S-6RO User Manual: Expansion Module - 6 Relay Outputs</p> <p>Comprehensive user manual for the ISMACONTROLLI SfAR-S-6RO, a 6-relay output expansion module designed for RS485 Modbus networks. Details include technical specifications, electrical connections, communication settings, DIP switch configuration, module registers, and safety guidelines.</p>
	<p>Summit 7-Day Digital Timer Instructions and Guide</p> <p>Comprehensive instructions for setting up and programming the Summit 7-Day Digital Timer models S-T12, S-T24, and S-T110. Covers general information, button functions, timer operation, and wiring connections.</p>