

Aexit AH3-3

Aexit AH3-3 DPDT 8-Pin Power Off Delay Timer Relay User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Aexit AH3-3 DPDT 8-Pin Power Off Delay Timer Relay. This device is designed for precise timing control in industrial automation systems and various mechanical equipment, offering an off-delay operation within a 0-10 second range at DC24V.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply is disconnected before any installation, wiring, or maintenance procedures.
- Verify that the supply voltage (DC24V) matches the relay's rating to prevent damage.
- Installation should be performed by qualified personnel familiar with electrical systems and safety standards.
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- Do not attempt to disassemble or modify the relay.

3. PRODUCT OVERVIEW

The Aexit AH3-3 is an 8-pin, Double Pole Double Throw (DPDT) power off delay timer relay. It features a time range of 0-10 seconds and operates on a DC24V power supply. The front knob allows for easy adjustment of the delay time. An indicator lamp provides visual feedback on operation.

3.1 Components

- **Timing Adjustment Knob:** Used to set the desired off-delay time (0-10 seconds).
- **Power Indicator Lamp:** Illuminates when power is supplied to the relay.
- **8-Pin Base:** For electrical connections.

3.2 Product Image



Figure 1: Front view of the Aexit AH3-3 DPDT 8-Pin Power Off Delay Timer Relay, showing the timing adjustment knob and indicator lamp.

4. SETUP AND INSTALLATION

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

4.1 Mounting

The relay is designed for screw mounting. Ensure a stable surface for installation. Screws are not included with the product and must be sourced separately. The terminal block mount diameter is 6 x 5mm (L*W).

4.2 Wiring

Connect the relay to the appropriate DC24V power supply and control circuit using the 8-pin terminal block. Refer to standard DPDT relay wiring diagrams for your specific application. Ensure all connections are secure and insulated.

- **Power Input:** Connect DC24V to the designated power pins.
- **DPDT Contacts:** The relay provides two sets of changeover contacts (Double Pole Double Throw) rated for AC 250V 5A Resistive Load. Connect your load circuits to these contacts as required.

Important: US buyers must verify that their power supply is DC24V to ensure compatibility and proper

function of this item.

5. OPERATING INSTRUCTIONS

The Aexit AH3-3 timer relay operates as an off-delay device, meaning the timing sequence begins when power is removed from the control input.

5.1 Setting the Delay Time

To adjust the off-delay time, gently rotate the front knob to the desired setting within the 0-10 second range. **Do not attempt to remove the front knob** as this may damage the internal mechanism.

5.2 Off-Delay Operation

1. When power is applied to the relay, the power indicator lamp will illuminate, and the DPDT contacts will immediately switch to their energized state.
2. When power is removed from the relay, the internal timer begins counting down the set delay time.
3. During the delay period, the DPDT contacts remain in their energized state.
4. Once the set delay time has elapsed, the DPDT contacts will revert to their de-energized (normal) state.

6. MAINTENANCE

The Aexit AH3-3 timer relay is designed for long-term, reliable operation with minimal maintenance.

- **Cleaning:** Periodically clean the exterior of the relay with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for tightness and signs of wear or corrosion.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your Aexit AH3-3 timer relay, consider the following troubleshooting steps:

- **Relay not powering on:** Check the DC24V power supply connections and ensure power is present. Verify the power indicator lamp.
- **Incorrect delay time:** Ensure the front knob is set correctly. The time range is 0-10 seconds.
- **Contacts not switching:** Verify the load circuit connections. Check if the relay is receiving power and if the delay time is set. Ensure the load current does not exceed the AC 250V 5A resistive rating.
- **Intermittent operation:** Inspect all wiring for loose connections or damage. Check for environmental factors like excessive vibration or temperature fluctuations.

8. SPECIFICATIONS

Feature	Specification
Product Name	Timer Delay Relay
Model Number	AH3-3
Pin Number	8 Pin

Feature	Specification
Rating	DC24V
Time Range	0-10 Second
Delay Type	Off-delay Operation
Contact Type	DPDT (Double Pole Double Throw)
Resistive Load	AC 250V 5A
Indicator Operation	One Power Indicator Lamp
Overall Size (Approx)	8.2 x 5.2 x 4cm / 3.2" x 2" x 1.6" (L*W*H)
Terminal Block Size	7.3 x 4.4 x 2cm / 2.9" x 1.7" x 0.8" (L*W*T)
Terminal Block Mount Dia	6 x 5mm / 0.24" x 0.2" (L*W)
External Material	Plastic, Metal, Electric Part
Net Weight	127g
Item Package Quantity	1
Material	Copper

9. WARRANTY INFORMATION

No specific warranty information is provided with this product. Please refer to the retailer or manufacturer's general terms and conditions for any applicable warranty policies.

10. SUPPORT

For technical assistance or further inquiries regarding the Aexit AH3-3 DPDT 8-Pin Power Off Delay Timer Relay, please contact the manufacturer, Aexit, or your product supplier.