

SINOTIMER TM-ST7

SINOTIMER Mechanical Staircase Timer Switch TM-ST7 User Manual

Model: TM-ST7 | Brand: SINOTIMER

1. INTRODUCTION

The SINOTIMER Mechanical Staircase Timer Switch TM-ST7 is designed for controlling lighting circuits, particularly in stairwells, corridors, and other areas where temporary illumination is required. This mechanical timer provides a simple and reliable solution for managing lighting duration, offering a full timing range of up to 7 minutes. Its robust design ensures precise operation and an accurate switching period.

2. FEATURES

- **Mechanical Staircase Timer:** Specifically designed for staircase lighting applications.
- **Simple Time Setting:** Easy adjustment and direct reading of the delay time on an absolute scale.
- **Full Timing Range:** Adjustable from 0.5 minutes up to 7 minutes.
- **Precise Mechanics:** Ensures accurate and reliable switching operations.
- **Permanent Light Function:** Includes a pullable switch for continuous illumination when needed.

3. SETUP AND INSTALLATION

Safety First: Before installation, ensure the main power supply is turned off at the circuit breaker to prevent electrical shock. Installation should be performed by a qualified electrician.

3.1 Mounting

The TM-ST7 timer is designed for DIN rail mounting. Securely attach the timer to a standard DIN rail within an appropriate electrical enclosure.

3.2 Wiring Connections

Connect the timer according to the wiring diagrams provided. Ensure all connections are tight and secure. The timer operates on 220V. Pay close attention to Line (L) and Neutral (N) connections, as well as the load connections for the lighting circuit.

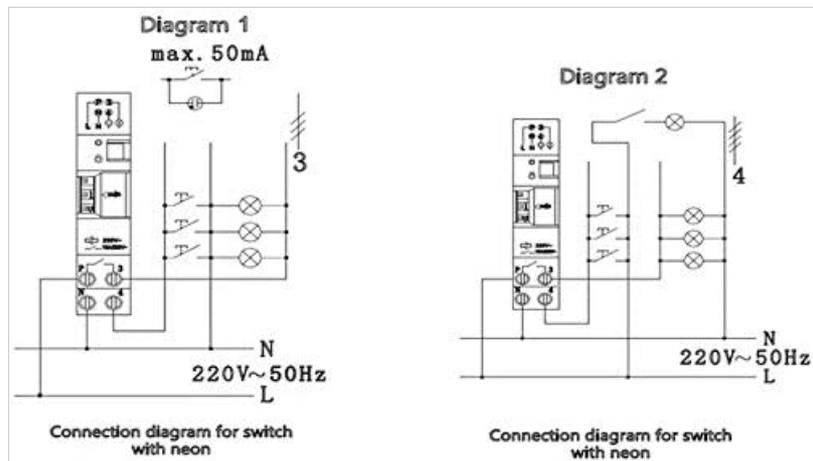


Figure 3.2.1: Wiring diagrams for the SINOTIMER TM-ST7 timer switch. Diagram 1 shows connection for a switch with neon indicator, and Diagram 2 shows connection for a switch without neon indicator. Ensure correct connection of Line (L), Neutral (N), and load terminals (3, 4).

4. OPERATING INSTRUCTIONS

4.1 Setting the Timer Duration

The timer duration can be set using the rotary knob on the front of the device. Rotate the knob to select the desired time delay, ranging from 0.5 minutes to 7 minutes. The selected time is directly indicated on the scale.



Figure 4.1.1: Front view of the SINOTIMER TM-ST7 timer switch, highlighting the rotary knob for setting the timer duration (in minutes).

4.2 Permanent Light Operation

The TM-ST7 includes a feature for permanent light operation. To activate continuous illumination, pull the switch located on the front panel. Push the switch back to return to timed operation.

5. MAINTENANCE

The SINOTIMER TM-ST7 is a low-maintenance device. Periodically inspect the connections for any signs of loosening or corrosion. Keep the device free from dust and moisture. Do not attempt to open or repair the unit yourself; refer to qualified personnel for any service needs.

6. TROUBLESHOOTING

- **Light does not turn on:** Check power supply, wiring connections, and the light bulb. Ensure the timer is set correctly and not in the 'off' position.
- **Light stays on permanently:** Check if the permanent light operation switch is engaged. Disengage it to return to timed operation.
- **Incorrect timing:** Verify the timer setting. If the issue persists, the unit may require professional inspection.
- **No power to the unit:** Check the circuit breaker and main power supply.

If you encounter issues not covered here, please contact customer support.

7. SPECIFICATIONS

Parameter	Value
Brand	SINOTIMER
Model	TM-ST7
Color	White
Rated Voltage	220V
Contact Capacity	16 Ampere
Contact Resistance	≤ 50 mOhm
Ambient Temperature	-10°C ~ +50°C
Minimum Setting Unit	0.5 minutes
Minimum Time Interval for Setting	0.5 minutes
Full Timing Range	7 minutes
Setting Times	1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7 minutes
Dimensions	87 × 18 × 67 mm

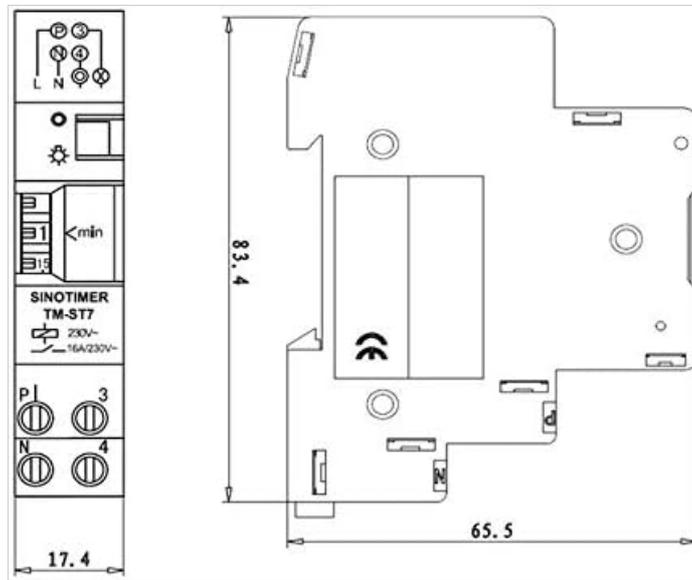


Figure 7.1.1: Dimensional drawing of the SINOTIMER TM-ST7 timer switch, showing measurements in millimeters.

8. PACKAGE CONTENTS

- 1 × SINOTIMER Mechanical Staircase Timer Switch TM-ST7

9. SAFETY INFORMATION

- Always disconnect power before installation, maintenance, or troubleshooting.
- This device is intended for indoor use only.
- Do not expose the device to water or excessive humidity.
- Ensure proper grounding according to local electrical codes.
- Keep out of reach of children.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your purchase receipt as proof of purchase.