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SATMW TM928AKL

SATMW TM928AKL Rail Timer Instruction Manual

Programmable 7-Day Digital Timer

Introduction

The SATMW TM928AKL is a versatile programmable digital timer designed for DIN rail mounting. It features a large backlit screen for clear visibility and offers up to 16 ON/OFF programs per day or week, with a minimum interval of 1 second. This timer is suitable for automating various electrical appliances, contributing to energy management and convenience.

Setup and Installation

1. Mounting

The TM928AKL timer is designed for standard DIN rail installation. Ensure the rail is securely mounted in a suitable enclosure or panel.

2. Wiring

WARNING: All wiring should be performed by a qualified electrician and in accordance with local electrical codes. Disconnect power before installation.
The timer supports direct load control for appliances within its rated capacity (Resistive 16A/30A, Inductive 8A/20A). For higher loads, an external contactor must be used.

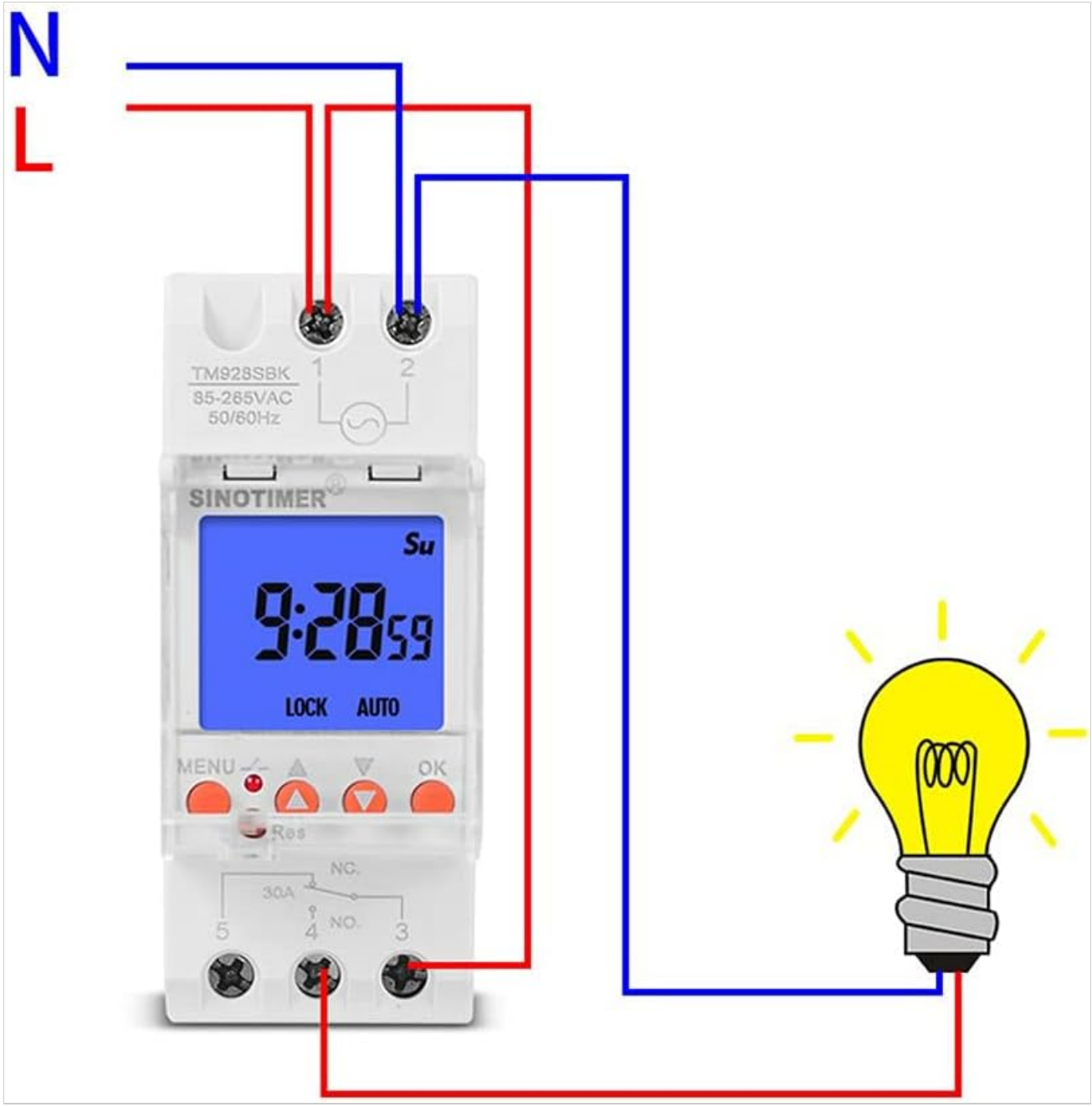


Figure 1: Direct Load Wiring Diagram

This diagram illustrates how to connect the TM928AKL timer directly to a single load, such as a light bulb. Ensure correct connection of Live (L) and Neutral (N) wires to terminals 1 and 2, and the load to terminals 3 and 4. The timer's internal relay switches the load connected to terminals 3 and 4.

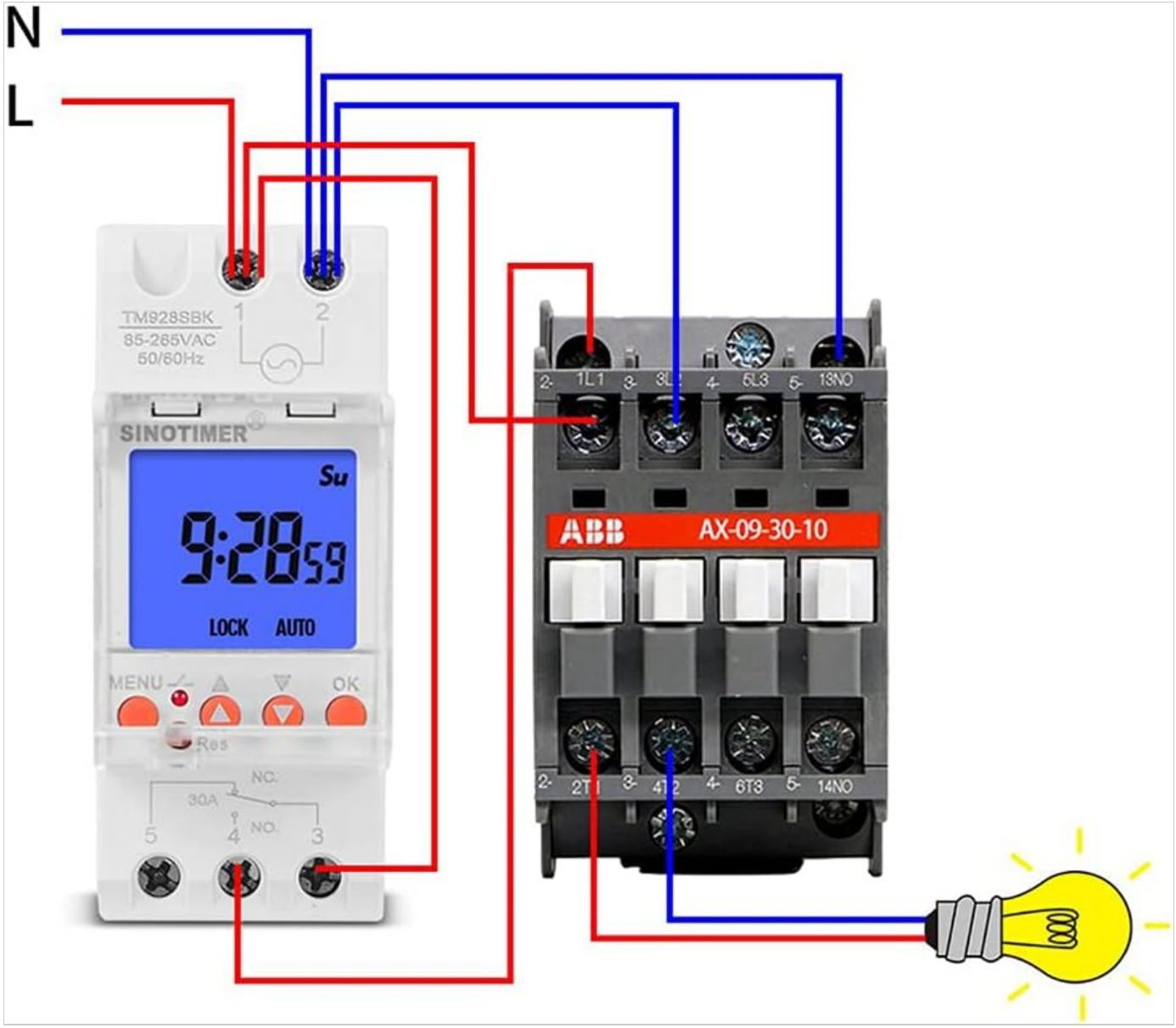


Figure 2: Contactor Wiring Diagram
For loads exceeding the timer's direct capacity (16A/30A), this diagram shows how to use the TM928AKL timer to control an external contactor (e.g., ABB AX-09-30-10). The timer's output (terminals 3 and 4) energizes the contactor's coil, which then switches the main load. This method is suitable for high-power appliances like water heaters or motors.

3. Initial Power-On and Time Setting

After wiring and applying power, the timer's display will illuminate. Set the current time and day using the 'MENU' and 'OK' buttons, navigating with the arrow keys. Refer to the on-screen prompts for precise adjustment.

Operating Instructions

1. Programming ON/OFF Cycles

The TM928AKL supports up to 16 ON/OFF programs. To set a program:

1. Press the 'MENU' button to enter programming mode.
2. Use the arrow keys to select a program number (e.g., '1 ON').
3. Set the desired ON time (hour, minute, second) and day(s) of the week for this program.
4. Repeat for the corresponding '1 OFF' time.
5. Continue for additional programs as needed.
6. Press 'OK' to save and exit programming mode.

The minimum interval for programming is 1 second, allowing for precise control.

2. Operating Modes

The timer typically operates in 'AUTO' mode, executing programmed schedules. Manual override options (ON/OFF) may be available via dedicated buttons or menu options to temporarily bypass the schedule.

3. Backlight Display

The large backlit screen provides clear visibility of the time and program status, especially in low-light conditions.



Figure 3: Typical Applications
The TM928AKL programmable timer can be used to automate various home and office appliances, including air conditioners, washing machines, refrigerators, microwave ovens, electric water heaters, and computers, helping to save energy and improve convenience.

Maintenance

Battery Replacement

The TM928AKL timer includes a replaceable CR2032 battery to maintain time and program settings during power outages. If the display becomes dim or settings are lost after a power interruption, the battery may need replacement.



Figure 4: Timer with Replaceable Battery
The TM928AKL timer features a large backlit display and user-friendly buttons. It includes a replaceable CR2032 battery for memory backup during power outages. To replace, carefully open the battery compartment, remove the old battery, and insert a new CR2032 battery with the correct polarity.

To replace the battery, carefully locate the battery compartment, typically on the side or back of the unit. Remove the old CR2032 battery and insert a new one, ensuring correct polarity. Dispose of old batteries responsibly.

Troubleshooting

- **Timer not powering on:** Check the power supply connections (terminals 1 and 2) and ensure the voltage is within the specified range (85-265VAC).
- **Load not switching:** Verify the load connections (terminals 3 and 4). Ensure the timer is in 'AUTO' mode and that the programmed ON/OFF times are correct. Check if the load exceeds the timer's capacity, requiring a contactor.
- **Settings lost after power outage:** The internal CR2032 battery may be depleted. Replace the battery as described in the Maintenance section.
- **Incorrect time display:** Reset the current time and day. If the issue persists, the internal clock may require a reset or battery replacement.

Specifications

Power Supply	85-265VAC, 50/60Hz (Customizable: 5VDC, 12VDC, 24VDC, 110VAC)
Capacity	Resistive: 16A / 30A, Inductive: 8A / 20A
Power Consumption	<5VA
Timing Range	1 minute - 168 hours
Black-out Memory	90 days
Average Error	<±2 seconds / day
Temperature Range	-10°C to 50°C
Humidity	<95%
Installation	DIN RAIL
Dimensions (L x W x H)	86.5 x 36 x 68.5 mm (3.41"D x 1.42"W x 2.7"H)
Switch ON/OFF Times	16 times
Minimum Interval	1 second
Battery	Replaceable CR2032

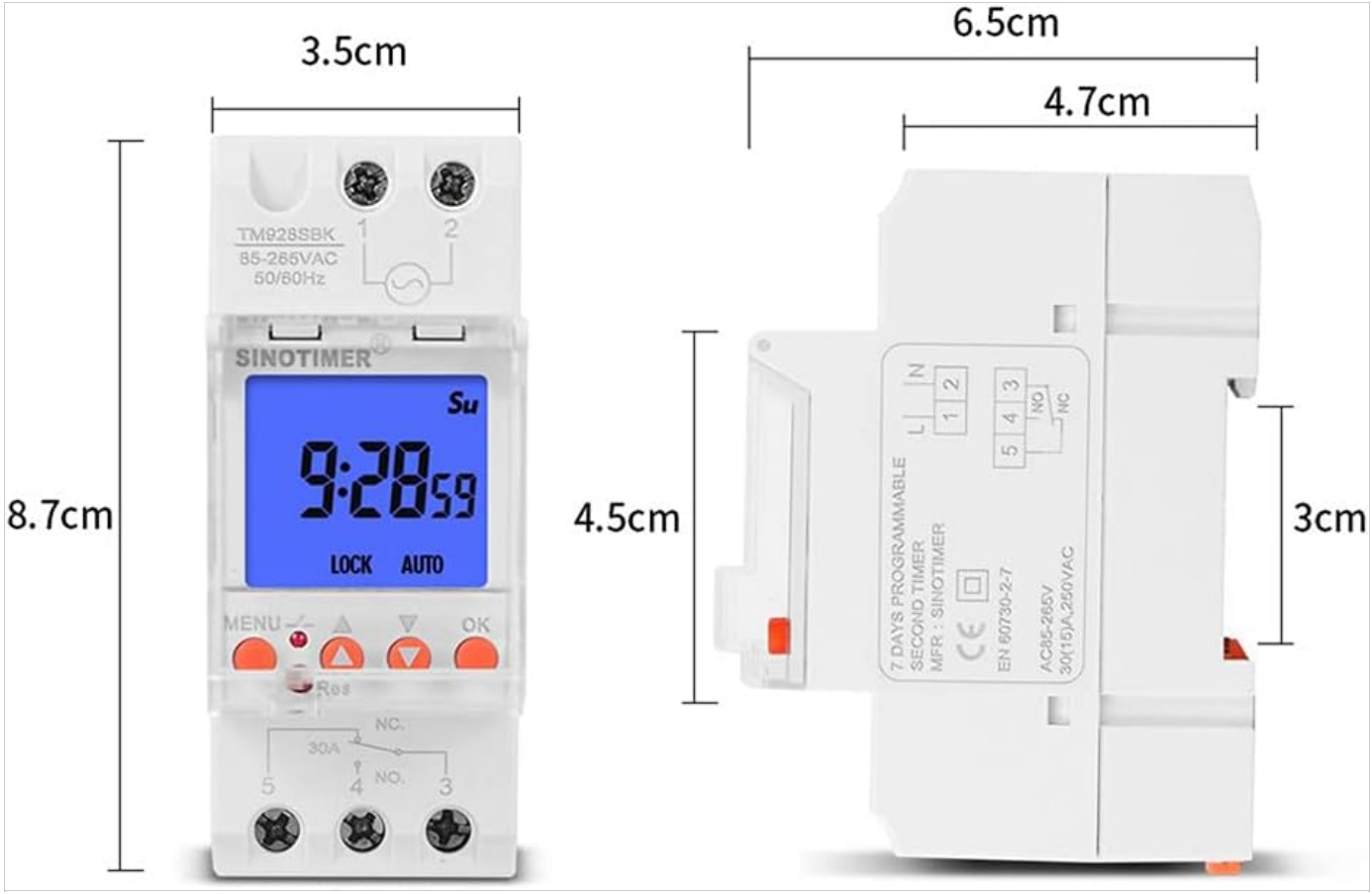


Figure 5: Dimensions of TM928AKL Rail Timer

This image provides the precise dimensions of the TM928AKL timer, essential for proper installation on a DIN rail. The front face measures approximately 3.5cm x 8.7cm, and the side profile is 6.5cm deep with a 4.7cm width at the top.

Warranty and Support

For warranty information or technical support, please contact your retailer or the manufacturer directly. Keep your purchase receipt for warranty claims.

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