

Acouto TM928BK

Acouto Programmable Digital Timer Switch TM928BK User Manual

Model: TM928BK

1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your Acouto TM928BK Programmable Digital Timer Switch. Please read this manual thoroughly before use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Acouto TM928BK is a programmable digital timer switch designed for automatic control of electrical appliances. It features an LCD backlight display for easy readability and supports up to 96 ON/OFF programs per day over a 7-day cycle. This device is suitable for various applications including lighting, production equipment, and household power supplies.

Key Features:

- **Clock Display:** Real-time clock information on an LCD screen.
- **User-Friendly Backlight:** Enhances visibility in low-light conditions.
- **Programmable Timer:** Set precise ON/OFF times for automated control.
- **Reliable Power Source:** Built-in 3V 520mAh battery for stable operation and power failure retention up to 90 days.
- **Versatile Timing:** Up to 96 ON/OFF programs per day, 7-day cycle.
- **DIN Rail Installation:** Designed for easy mounting on a DIN rail.

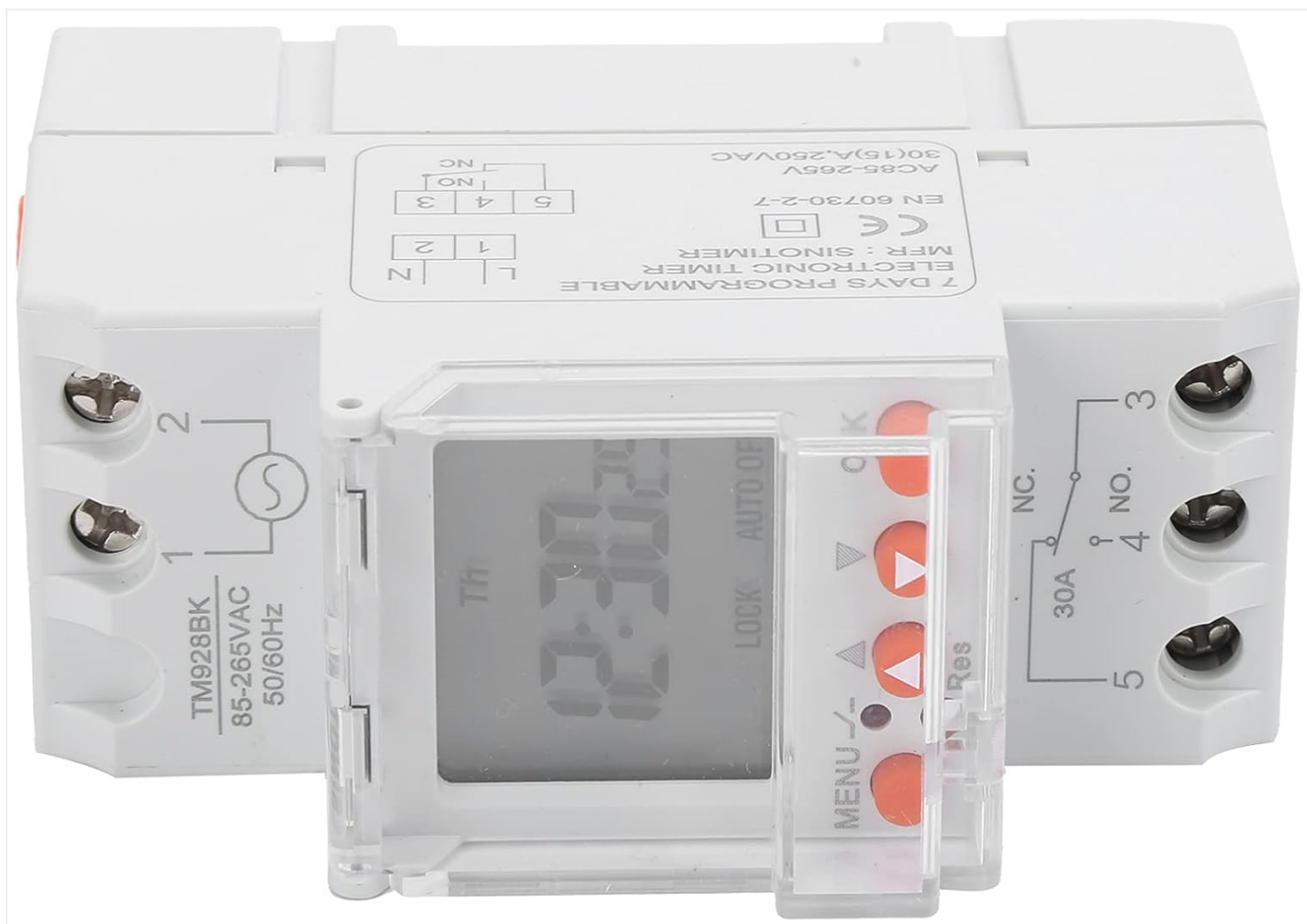


Figure 2.1: Front view of the Acouto TM928BK Digital Timer Switch, showing the LCD display, MENU, Up, Down, and OK buttons, and the clear protective cover.

3. SPECIFICATIONS

Parameter	Value
Model	TM928BK
Display Mode	LCD backlight
Working Voltage	85-265VAC
Load Capacity	30A
Power Consumption	<1W (typical)
Time Range	1 minute - 168 hours
Power Failure Memory	90 days (built-in battery)
Programs	96 ON/OFF times per day
Average Error	<1s/24h
Temperature Range	-10°C to 50°C
Humidity	35-85% RH
Installation Method	DIN RAIL

Parameter	Value
Battery Parameters	Built-in 3V 520mAh
Product Dimensions	3.54"D x 3.15"W x 1.97"H (approx.)
Item Weight	5.4 ounces (approx.)

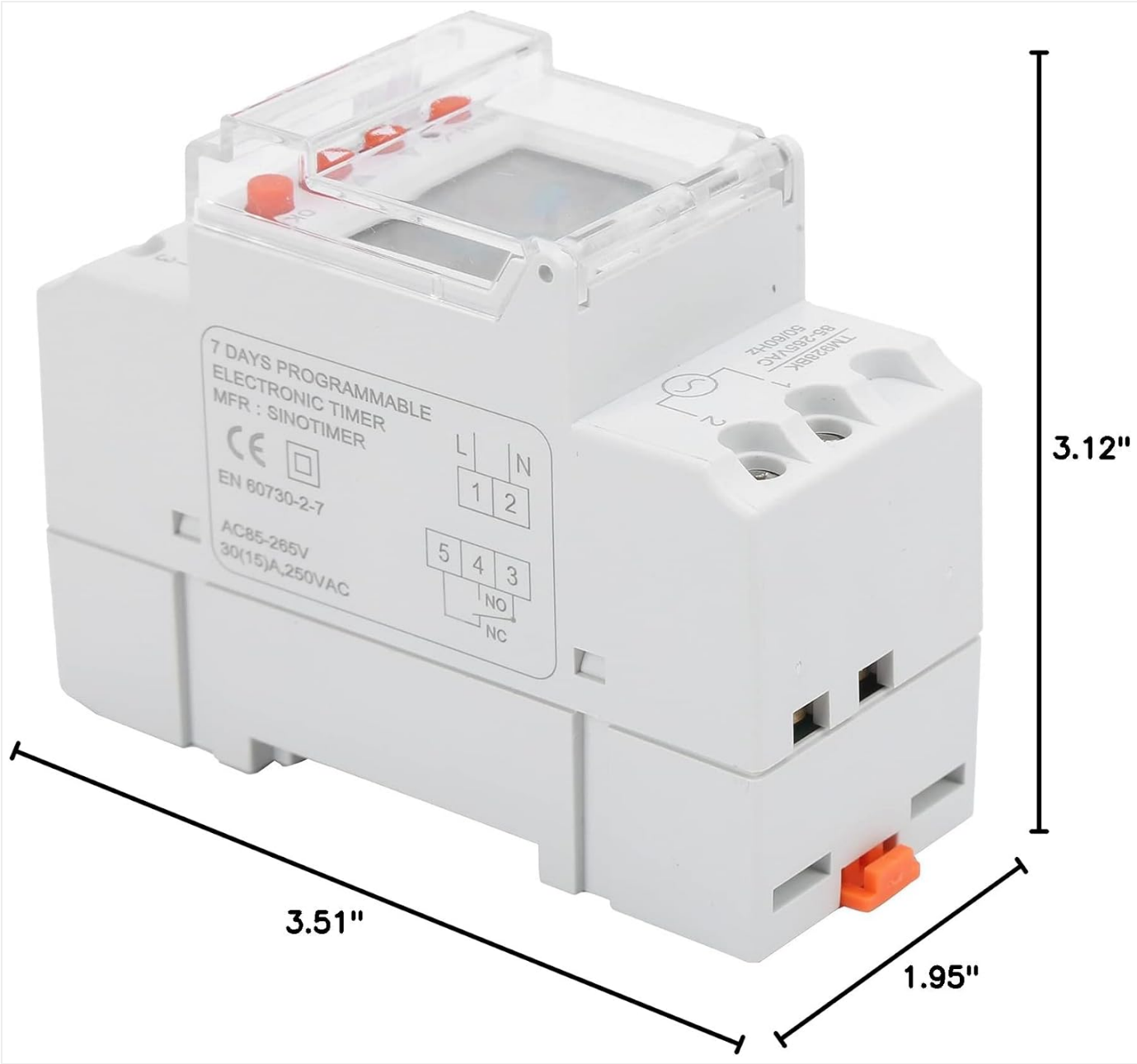


Figure 3.1: Dimensions of the Acouto TM928BK Digital Timer Switch.

4. SAFETY INFORMATION

WARNING: Electrical installation should only be performed by qualified personnel. Improper installation can lead to electric shock, fire, or damage to the device.

- Always disconnect power at the circuit breaker before installing or servicing the timer switch.
- Ensure the working voltage (85-265VAC) and load capacity (30A) are suitable for your application.
- Do not expose the device to moisture or extreme temperatures outside the specified range (-10°C to 50°C).
- Do not attempt to disassemble or modify the timer switch.

- Use within the specified voltage and current ranges to prevent damage.

5. INSTALLATION

The TM928BK timer switch is designed for DIN rail mounting. Follow these general steps for installation:

1. **Power Disconnection:** Before starting, ensure that the main power supply to the circuit is turned off at the circuit breaker.
2. **Mounting:** Clip the timer switch onto a standard 35mm DIN rail. Ensure it is securely fastened.
3. **Wiring:** Connect the input power (L and N) to terminals 1 and 2. Connect the load to terminals 3 (NO - Normally Open) and 4 (NC - Normally Closed) or 5 (Common). Refer to the wiring diagram for correct connections.
4. **Secure Connections:** Ensure all wire connections are tight and secure to prevent loose contacts.
5. **Power Restoration:** Once installation is complete and verified, restore power to the circuit.



Figure 5.1: Side view showing the wiring diagram for the Acouto TM928BK. Terminals 1 and 2 are for L and N input, and terminals 3, 4, 5 are for load connections (NO, NC, Common).

6. INITIAL SETUP AND CLOCK SETTING

Upon initial power-up or after a prolonged power outage (beyond 90 days), you may need to set the current time and day.

1. **Reset:** If the display is blank or shows incorrect information, press the **Res** button (often a small recessed button requiring a pointed object) to reset the device.

2. **Set Time:**

- Press the **MENU** button.
- Use the **Up** and **Down** buttons to navigate to the "Clock" or "Time Set" option.
- Press **OK** to enter time setting mode.
- Use **Up** and **Down** to adjust hours, minutes, and day of the week.
- Press **OK** to confirm each setting.
- Press **MENU** to exit.



Figure 6.1: The control panel with the protective cover open, revealing the MENU, Up, Down, OK, and Reset buttons.

7. OPERATING INSTRUCTIONS: PROGRAMMING ON/OFF TIMES

The TM928BK allows you to set up to 96 ON/OFF programs per day. Follow these steps to program your desired schedule:

- 1. Enter Program Mode:** Press the **MENU** button. Use **Up/Down** to navigate to "Program" or "Timer Set" and press **OK**.
- 2. Set ON Time:**
 - The display will show "1 ON". Use **Up/Down** to set the desired hour for the first ON event. Press **OK**.
 - Use **Up/Down** to set the desired minute. Press **OK**.
 - Select the days of the week for this ON event (e.g., Mon-Fri, Sat-Sun, or individual days). Press **OK**.
- 3. Set OFF Time:**
 - The display will automatically show "1 OFF". Use **Up/Down** to set the desired hour for the first OFF event. Press **OK**.
 - Use **Up/Down** to set the desired minute. Press **OK**.
 - Select the days of the week for this OFF event (usually matching the ON event). Press **OK**.
- 4. Repeat for More Programs:** The timer will automatically advance to "2 ON", "2 OFF", and so on. Repeat steps 2 and 3 for up to 96 programs.
- 5. Exit Program Mode:** Press **MENU** to save and exit program mode.

Manual Override:

The timer typically operates in "AUTO ON" or "AUTO OFF" mode. To manually override the current state (e.g., turn ON when it's scheduled OFF), press the **Up** button (often labeled "MANUAL" or "MODE") to cycle through modes like ON, OFF, AUTO ON, AUTO OFF. The display will indicate the current mode.

8. MAINTENANCE

- **Cleaning:** Wipe the exterior of the timer switch with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery:** The timer switch has a built-in 3V 520mAh battery that retains settings for up to 90 days during a power outage. This battery is not user-replaceable. If the device consistently loses time or programs after short power interruptions, the internal battery may be depleted and the unit may require replacement.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or damage.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank.	No power supply; device needs reset.	Check power connections and circuit breaker. Press the Res button.
Programs are not running.	Incorrect programming; timer is in manual mode.	Verify program settings. Ensure the timer is in "AUTO ON" or "AUTO OFF" mode.
Time is incorrect after power outage.	Internal battery depleted or power outage exceeded 90 days.	Reset and set the current time. If issue persists, the internal battery may need replacement (unit replacement).
Load does not turn ON/OFF.	Incorrect wiring; faulty load; timer malfunction.	Check wiring according to diagram. Test the load independently. If all else fails, contact support.

10. PACKAGE CONTENTS

The package for the Acouto TM928BK Programmable Digital Timer Switch includes:

- 1 x Acouto TM928BK Timer Switch
- 1 x English User Manual (this document)

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the purchase documentation or contact Acouto customer service directly. Keep your purchase receipt for warranty claims.

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