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## TAXNELE THC30A

# TAXNELE THC30A Digital Programmable Timer Switch User Manual

Model: THC30A | Brand: TAXNELE

## INTRODUCTION

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The TAXNELE THC30A is a digital programmable timer switch designed for automatic control of various electrical equipment. It features daily and weekly programming capabilities with up to 20 ON/OFF settings, a manual override function, and a built-in lithium battery for power-off memory. This manual provides detailed instructions for installation, operation, and maintenance to ensure safe and efficient use of your timer switch.

## SAFETY INFORMATION

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- Ensure the power supply is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician or knowledgeable individual.
- Do not exceed the maximum load capacity of 30A / 5000W.
- Keep the device away from water and extreme temperatures.
- Verify correct wiring connections to prevent damage to the device or connected appliances.

## PRODUCT FEATURES

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- **Programmable Control:** Up to 20 ON/OFF settings per day or week.
- **Power-Off Memory:** Built-in 3V lithium battery maintains timing, display, and data storage for up to 3 years during power interruptions.
- **High Precision:** Industrial-grade chip for accurate timing.
- **Manual Override:** Allows temporary or permanent manual control.
- **LCD Display:** Clear digital display for easy programming and monitoring.
- **Din Rail Mount:** Designed for easy installation on a standard DIN rail.
- **Wide Application:** Suitable for street lights, neon lamps, advertising signs, production equipment, and home appliances.

# POWER-OFF MEMORY FUNCTION

The timer can record 3 years of data in the absence of power



Built In Large Capacity  
Lithium Battery

Figure 1: The THC30A timer switch highlighting its power-off memory function, which retains data for up to 3 years using a built-in CR2032 lithium battery.

# PRECISE TIMING, AUTOMATIC CALIBRATION



30A Big Load Relay

Enough Load,  
Safer And More  
Stable



Figure 2: The THC30A timer switch featuring a 30A big load relay for stable and safe operation with various electrical loads.

## PRODUCT COMPONENTS AND DISPLAY

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# DETAILS

## Digital Time Controller

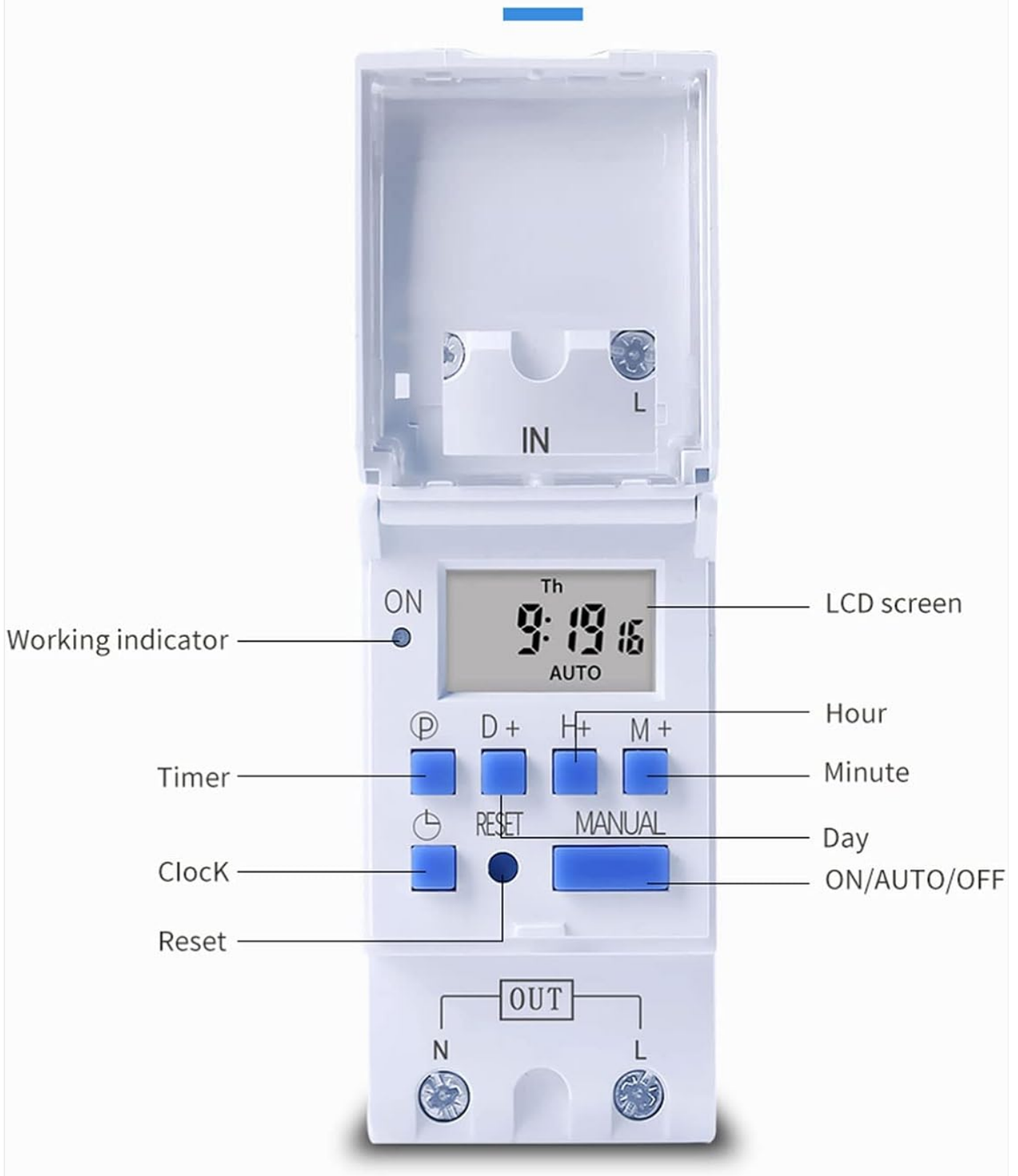


Figure 3: Detailed view of the THC30A timer switch's LCD screen and control buttons. Labels include Working indicator, Timer, Clock, Reset, P (Program), D+ (Day), H+ (Hour), M+ (Minute), Manual, and ON/AUTO/OFF status.

- **LCD Screen:** Displays current time, day, and ON/OFF status.
- **Working Indicator:** LED light indicating operation status.
- **P Button:** Enters programming mode.

- **D+ Button:** Adjusts day in clock setting or program.
- **H+ Button:** Adjusts hour in clock setting or program.
- **M+ Button:** Adjusts minute in clock setting or program.
- **Clock Button:** Returns to clock display or exits programming mode.
- **Reset Button:** Clears all settings and resets the timer.
- **Manual Button:** Toggles between ON, AUTO, and OFF modes.

## SPECIFICATIONS

Parameter	Value
Model	THC30A
Current Rating	30A
Power Rating	5000W
Voltage Options	12V DC AC, 24V DC AC, 48V DC AC, 110V AC, 220V AC
Time Error	≤2 seconds/day
Display	LCD
Timing Range	1 minute to 168 hours (7 days)
ON/OFF Settings	20 groups
Operating Temperature	-20°C to 50°C
Dimensions	86 x 36 x 65mm (3.38 x 1.41 x 2.56 inches)
Power Reserve	3V Lithium battery (CR2032 type) for 3 years data retention

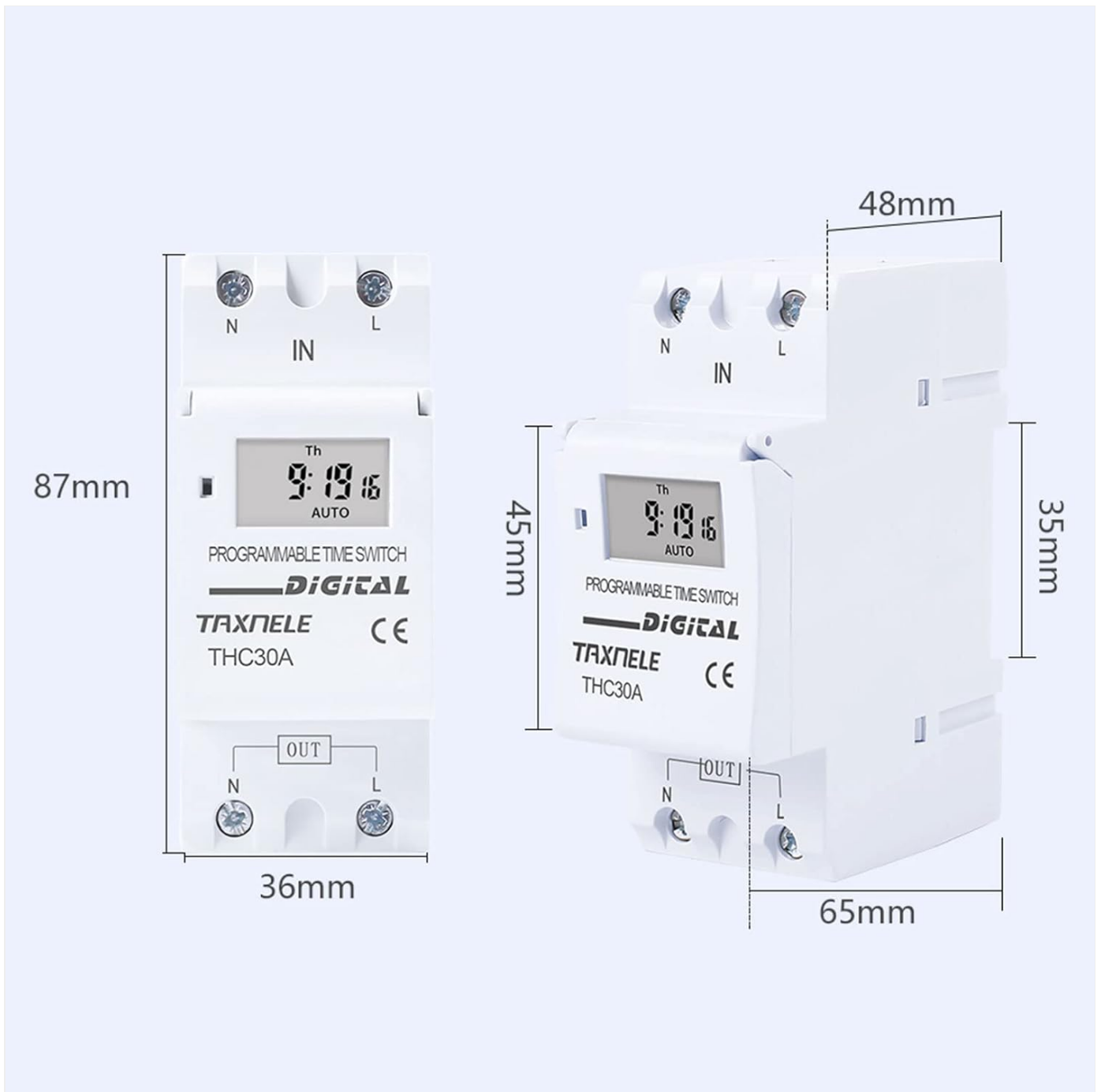


Figure 4: Dimensions of the THC30A timer switch, showing measurements for height, width, and depth for proper installation planning.

## SETUP AND INSTALLATION

### 1. Mounting

The THC30A timer switch is designed for DIN rail mounting. Securely attach the device to a standard 35mm DIN rail in an appropriate electrical enclosure.

### 2. Wiring

**WARNING: Ensure all power is disconnected before performing any wiring.**

Connect the input power supply to the "IN" terminals (N for Neutral, L for Live). Connect the load (e.g., light, appliance) to the "OUT" terminals (N for Neutral, L for Live). The timer acts as a switch for the live wire. Refer to the wiring diagram below for correct connections.

# EASY WIRING, THE OUTPUT HAS POWER DIRECTLY

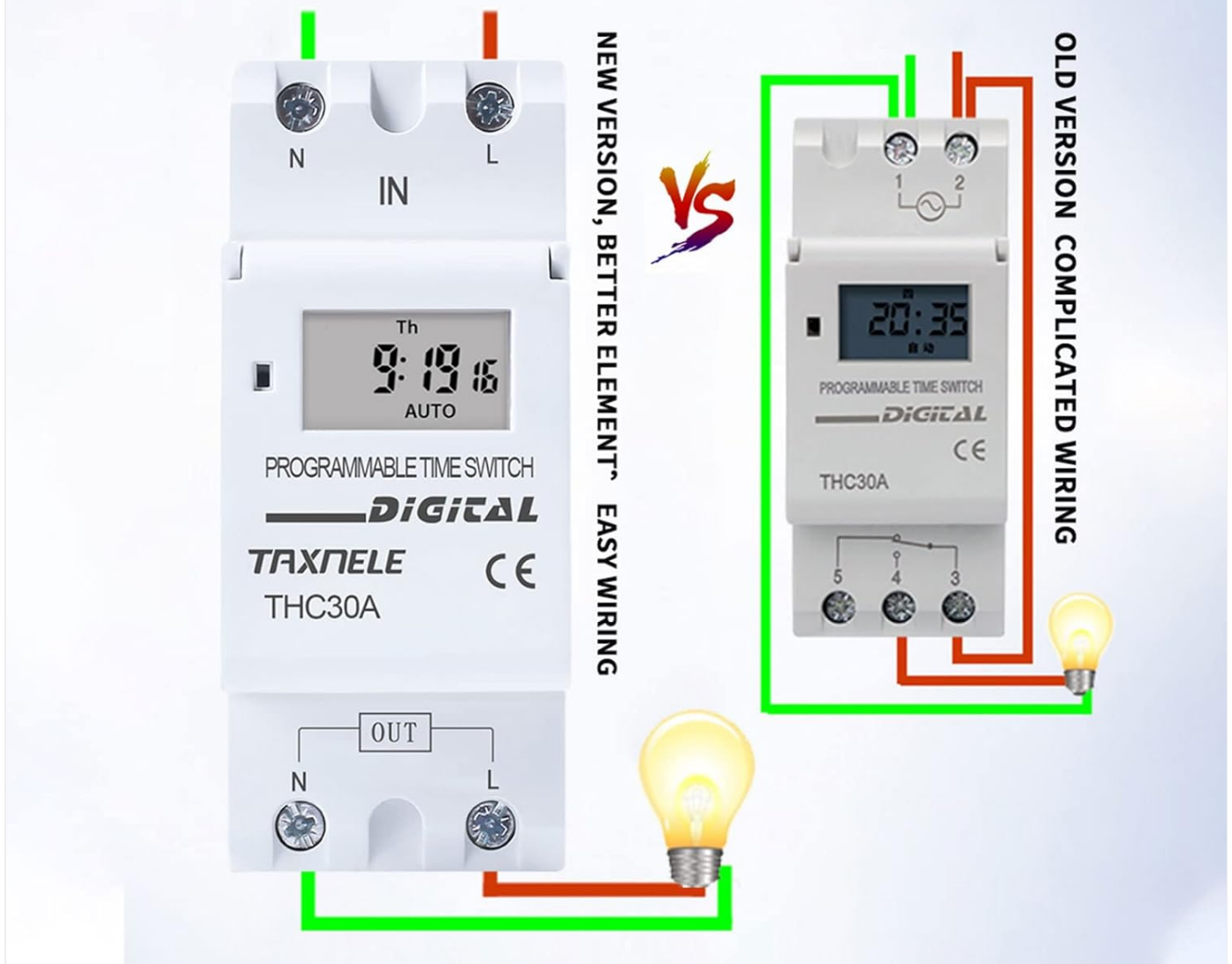


Figure 5: Simplified wiring diagram for the THC30A timer switch. The new version offers direct power output, simplifying connections compared to older models.

- **Input (IN):** Connect your main power supply (e.g., AC 12V, 24V, 48V, 110V, 220V) to these terminals.
- **Output (OUT):** Connect your electrical load (e.g., light, motor) to these terminals. The timer controls the power flow to this output.

## OPERATING INSTRUCTIONS

### 1. Initial Setup / Reset

Upon first use or after a prolonged power outage, the display may be blank. Press the **Reset** button (located in a small hole, use a pointed object) to clear all settings and initialize the timer. The LCD will display "0:00" and "AUTO".

### 2. Setting Current Time and Day

1. Press and hold the **Clock** button.
2. While holding **Clock**, press **D+** to set the current day (Monday to Sunday).

3. While holding **Clock**, press **H+** to set the current hour (0-23).
4. While holding **Clock**, press **M+** to set the current minute (0-59).
5. Release the **Clock** button. The time is now set.

### 3. Programming ON/OFF Cycles

The timer supports up to 20 ON/OFF programs. Each program consists of an ON time and an OFF time.

1. Press the **P** button once. The display will show "1 ON". This is for the first ON setting.
2. Press **D+** to select the day(s) for this ON event. You can choose a single day, specific days, or blocks of days (e.g., Mon-Fri, Sat-Sun, Mon-Sun).
3. Press **H+** to set the hour for the first ON event.
4. Press **M+** to set the minute for the first ON event.
5. Press the **P** button again. The display will show "1 OFF". This is for the first OFF setting.
6. Repeat steps 2-4 to set the day(s), hour, and minute for the first OFF event.
7. Continue pressing **P** to cycle through "2 ON", "2 OFF", up to "20 ON", "20 OFF" and set additional programs as needed.
8. After setting all desired programs, press the **Clock** button to exit programming mode and return to the current time display.

# SIMPLE TO SET UP



Figure 6: Visual guide to the simple setup of the THC30A timer, highlighting its 20 ON/OFF groups, daily/weekly cycling, auto ON/OFF status, and minimum 1-minute setting time.

## 4. Manual Override

Press the **Manual** button to cycle through the output modes:

- **ON:** The output is continuously ON, overriding all programs.
- **AUTO:** The output operates according to the programmed ON/OFF cycles. This is the standard operating mode.
- **OFF:** The output is continuously OFF, overriding all programs.

Ensure the timer is in **AUTO** mode for programmed operations to function.

## MAINTENANCE

- Keep the timer clean and free from dust. Use a dry, soft cloth for cleaning.
- Do not use abrasive cleaners or solvents.

- The internal lithium battery (CR2032) has a long lifespan (up to 3 years). If the display consistently goes blank after power outages, the battery may need replacement. This should be done by a qualified technician.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Display is blank.	No power supply; internal battery depleted.	Check power connections. Press the Reset button. If problem persists, internal battery may need replacement.
Timer does not switch ON/OFF as programmed.	Timer is not in AUTO mode; incorrect program settings; current time/day is wrong.	Press <b>Manual</b> until "AUTO" is displayed. Verify program settings (ON/OFF times, days). Check and correct current time and day.
Output is always ON or always OFF.	Timer is in manual ON or OFF mode.	Press <b>Manual</b> until "AUTO" is displayed.
Programs are lost after power outage.	Internal backup battery is depleted.	The internal CR2032 battery may need replacement. Contact support if necessary.

## APPLICATIONS

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The TAXNELE THC30A timer switch is versatile and can be used in various applications to automate electrical devices:

# TIMING ON OFF , SMART LIFE



Street Light Control



Home Appliance Control



Battery Charging Control



Advertising Light Control

Figure 7: Examples of common applications for the THC30A timer switch, including street light control, home appliance control, battery charging control, and advertising light control.

- **Street Light Control:** Automate the turning ON/OFF of street lights based on time.
- **Home Appliance Control:** Schedule operation of water heaters, fans, or other household devices.
- **Battery Charging Control:** Manage charging cycles for batteries to prevent overcharging.
- **Advertising Light Control:** Program display times for neon signs and advertising boards.
- **Production Equipment:** Control machinery operation in industrial settings.

## WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official TAXNELE website. Keep your purchase receipt as proof of purchase.



