

ANDONT TCH-024-3-4

ANDONT TCH-024-3-4 3-Stack LED Andon Tower Light with Buzzer User Manual

Model: TCH-024-3-4

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ANDONT TCH-024-3-4 3-Stack LED Andon Tower Light with Buzzer. This device is designed for visual and audible signaling in various industrial, commercial, and educational environments. It features three super bright LED light stacks (Red, Yellow, Green) and an integrated buzzer, offering flexible signaling options through its control box and configurable DIP switches.

2. SAFETY INFORMATION

- Ensure the power adapter is connected to a compatible 120V AC power source.
- Do not expose the device to extreme temperatures or direct water spray beyond its IP53 rating.
- Disconnect power before performing any installation, maintenance, or configuration adjustments.
- Avoid looking directly into the LED lights for extended periods, as they are super bright.
- Keep the device out of reach of children.
- If any damage is observed, discontinue use and contact support.

3. PRODUCT OVERVIEW

The ANDONT TCH-024-3-4 is a pre-assembled, plug-and-play signaling solution. It includes the following main components:

- **3-Stack LED Tower Light:** Features Red, Yellow, and Green light modules. Each module contains 18 super bright LEDs.
- **Integrated Buzzer:** An 85dB buzzer for audible alerts.
- **Control Box:** Equipped with three selector switches for independent control of each light stack (OFF/ON).
- **Power Adapter:** A 6 ft industrial-grade AC-DC adapter (18W, 120V AC input).
- **Extension Cord:** A 16 ft extension cord for flexible placement.
- **Mounting Bracket:** A 2-hole L-bracket for secure installation.
- **Internal DIP Switches:** For advanced configuration of buzzer and light behaviors (flash/steady).



Image 3.1: Complete ANDONT 3-Stack LED Andon Tower Light system, showing the tower light, control box, extension cord, and power adapter.

4. SPECIFICATIONS

Feature	Specification
Model Number	TCH-024-3-4
Light Colors	Red, Yellow, Green
Light Source Type	LED (18 LEDs per stack)
Buzzer Sound Level	85dB
Material	PC lens, ABS body, Aluminum Alloy Pole
Diameter	2.36 inches (60mm)
Length (Tower Stack Lights)	8.5 inches (216mm)
Overall Product Dimensions	5"L x 3"W x 20"H
Weight	2 Pounds
Input Voltage	120 Volts AC
Wattage	3 Watts (per light source)
IP Rating	IP53
Average Life	50,000 Hours
Extension Cord Length	16 ft
Power Adapter Cord Length	6 ft
UPC	727198738545



Image 4.1: Product dimensions and mounting bracket details.

5. SETUP AND INSTALLATION

5.1 Component Assembly

1. **Mounting the Tower Light:** Secure the tower light assembly using the provided 2-hole L-bracket. Choose a stable, vertical surface for mounting. Ensure the mounting location allows for clear visibility of the light stacks.
2. **Connecting the Control Box:** The tower light is pre-wired to the control box. Ensure the connection is secure.
3. **Connecting the Extension Cord:** Plug the extension cord into the control box.
4. **Connecting the Power Adapter:** Connect the 6 ft industrial power adapter to the extension cord.
5. **Power Connection:** Plug the power adapter into a standard 120V AC electrical outlet.

5.2 DIP Switch Configuration

The tower light features internal DIP switches for customizing the buzzer and light behaviors. To access these switches, carefully unscrew the top light module (typically Red) and gently pull it away to reveal the circuit board. The DIP switch settings are as follows:





Image 5.1: Internal DIP Switch Instruction for customizing light and buzzer functions.

- **Switches 1-3 (Buzzer Settings):**

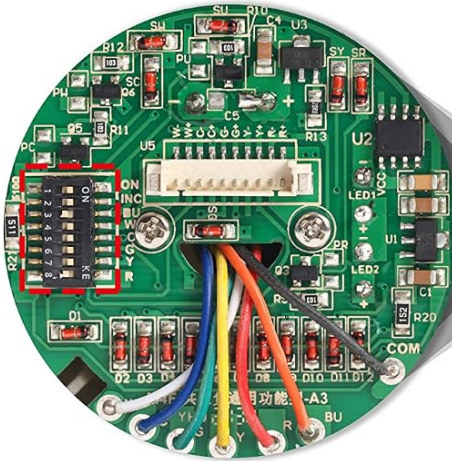
- Switch 1: ON = With buzzer, OFF = No buzzer
- Switch 2: INC = Normal sound, BU = Continuous sound
- Switch 3: (Not explicitly defined in diagram, typically for sound type or intensity)

- **Switches 4-8 (Light Mode Settings):** These switches control whether the lights are steady or flash when activated by the control box.

- Switch 4: W = White steady, White flash
- Switch 5: C = Blue steady, Blue flash
- Switch 6: G = Green steady, Green flash
- Switch 7: Y = Yellow steady, Yellow flash
- Switch 8: R = Red steady, Red flash

Default DIP switch Settings: Buzzer/Red Flash, Yellow ON, Green ON. Adjust these switches according to your desired operational mode. Ensure power is disconnected before making any changes to the DIP switches.

Dip Switch Instruction



No buzzer
Low sound
Intermittent sound
White flash
Blue flash
Green flash
Yellow flash
Red flash

1
2
3
4
5
6
7
8



ON With buzzer
INC Normal sound
BU Continuous
W White steady
C Blue steady
G Green steady
Y Yellow steady
R Red steady

Image 5.2: Internal circuit board showing the DIP switches.

6. OPERATION

Once the tower light is installed and configured, operate it using the selector switches on the control box.

- Each selector switch corresponds to a specific light color (Red, Yellow, Green).
- Turn a switch to the 'ON' position to activate the corresponding light.
- Turn a switch to the 'OFF' position to deactivate the corresponding light.
- The behavior of the light (steady or flashing) and the buzzer activation are determined by the internal DIP switch settings (refer to Section 5.2).



Image 6.1: Control box with individual ON/OFF selector switches for each light color.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tower light and control box. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the cables, connections, and mounting bracket for any signs of wear or damage.
- **Environmental Conditions:** Ensure the operating environment remains within the specified IP53 rating to prevent damage from dust or water splashes.

8. TROUBLESHOOTING

- **No Power/Lights Not Turning On:**

- Check if the power adapter is securely plugged into a working 120V AC outlet.
- Verify all cable connections between the power adapter, extension cord, control box, and tower light are secure.
- Ensure the selector switches on the control box are in the 'ON' position for the desired lights.

- **Buzzer Not Functioning or Always On:**

- Check DIP switch 1 (Buzzer ON/OFF) as described in Section 5.2.
- Verify DIP switch 2 (Buzzer sound type) is set as desired.
- Ensure the red light is activated, as the buzzer is typically linked to the red light by default.

- **Light Flashing Instead of Steady (or vice-versa):**

- Review the DIP switch settings for the specific light color (Switches 6-8) as detailed in Section 5.2 to ensure they match your desired behavior.

- **Intermittent Operation:**

- Inspect all connections for looseness or damage.
- Ensure the power source is stable.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer, ANDONT, directly. Refer to the product packaging or the official ANDONT website for contact details.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question