

# TD-50 LED Tower Signal Light

Foldable Multi-Layer Red / Yellow / Green Machine Warning Lamp

User Manual

Model TD-50 Series

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**CE**

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## 1. PRODUCT OVERVIEW

The TD-50 is a modular LED tower signal light that stacks red, yellow and green high-brightness LED sections to show machine and production-line status at a glance. The lamp is supplied with 1 to 4 color layers as ordered (red / yellow / green combinations); models are available with an audible buzzer as an option so abnormal conditions trigger a sound-and-light alarm. Its lamp head folds down 90° against the base for compact storage or low-profile running, and the new square snap-fit base installs without screws or tools while staying compatible with old round-base hole patterns. Typical users: CNC machine tools, automated production lines, warehousing and logistics conveyors, and packaging equipment.

## 2. TECHNICAL SPECIFICATIONS

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Model             | TD-50 Series                                                   |
| Light source      | High-brightness LED                                            |
| Color layers      | Red / Yellow / Green — 1, 2, 3 or 4 layers per order           |
| Operating voltage | DC24V / AC110V / AC220V (model dependent)                      |
| Protection rating | IP50 (dust-protected, NOT waterproof)                          |
| Signal modes      | Steady on / flashing / buzzer alarm / silent (model dependent) |
| Buzzer            | Optional (selected at order time)                              |
| Mounting screws   | Not included                                                   |
| Base              | Square snap-fit folding base, multi-hole, old-hole compatible  |
| Folding           | 90° side fold for compact storage                              |
| Certification     | CE                                                             |
| Application       | Machine tools, automation lines, warehousing, packaging        |

Note: exact dimensions depend on the ordered model — confirm the values printed on the unit label before installation.

## 3. PACKAGE CONTENTS

- 1 x TD-50 LED tower signal light (pre-assembled, with foldable square base)
- No mounting screws are included (base assembly is screw-free; use suitable screws for your mounting surface if needed)

## 4. INSTALLATION INSTRUCTIONS

**Step 1 — Check the voltage:** confirm the voltage on the unit label (DC24V, AC110V or AC220V) matches your local supply before connecting.

**Step 2 — Choose the position:** pick a flat surface where the light is clearly visible to operators.

**Step 3 — Mount the base:** place the square base on the mounting surface and align the holes. Snap the light column onto the base — no screws or tools are needed. For machine fixing, use the hole pattern that best fits your existing holes (multi-hole design is compatible with old round-base positions). Screws for fixing the base to the machine are not included — supply your own according to the mounting surface.

**Step 4 — Wire the unit:** connect the supply wires according to Section 5. Keep wiring short and protected.

**Step 5 — Test:** power on and check that every color section works in its assigned mode. Fold the head to confirm free movement, then return it upright.

## 5. WIRING DIAGRAM

Wire colors and pin functions are model dependent (DC vs AC, with or without buzzer). Follow the connection table printed on the unit label of your model:

| Model type                  | Connection                                                                                                                                             |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC models (DC24V)           | Connect the positive (+) and negative (–) supply wires to a DC24V power source.                                                                        |
| AC models (AC110V / AC220V) | Connect the live (L) and neutral (N) wires to the AC supply. Where a ground (PE) terminal is provided, connect the ground wire to the ground terminal. |
| Buzzer models               | The buzzer section shares the lamp supply; an additional alarm control wire enables the buzzer v                                                       |

6. COLOR STATUS RECOMMENDATIONS

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Green                          | Normal operation / machine running / OK     |
| Yellow                         | Attention / standby / preparation / warning |
| Red                            | Fault / stop / alarm condition              |
| Flashing red (or red + buzzer) | Critical alarm requiring immediate action   |

7. MAINTENANCE AND CARE

- Wipe the lamp sections and lens with a soft dry cloth to keep signals bright and readable.
- Check the base snap joints and mounting screws (if any) periodically for looseness.
- Keep the folding joint clean; do not force the head if it feels obstructed.
- Store the light in a dry, dust-free place when not installed.

8. SAFETY WARNINGS

- Only connect the light to the rated voltage printed on its label.
- Always disconnect power before wiring, cleaning or servicing.
- Do not disassemble the LED sections or modify the internal circuit.
- Do not cover the lamp while it is on for long periods.
- IP50 rating: the light is dust-protected but NOT waterproof. Use indoors or in sheltered areas only — do not expose it to rain, splashing water or wet environments.
- Installation and wiring should be done by qualified personnel.

9. TROUBLESHOOTING

| Problem                     | Possible cause                                  | Remedy                                                     |
|-----------------------------|-------------------------------------------------|------------------------------------------------------------|
| Light does not turn on      | No power or wrong voltage                       | Check supply and match the rated voltage on the label      |
| Only some colors light up   | Loose connection or section wiring fault        | Power off, check the section connection / contact supplier |
| Flashing or buzzer not work | Mode selection wrong or buzzer model not fitted | Check fitted model includes buzzer / check mode control    |
| Light is dim                | Low supply voltage or dirty lens                | Check voltage; clean the lens                              |
| Lamp head cannot fold       | Folding joint obstructed                        | Inspect the joint; do not force it                         |

10. WARRANTY POLICY

This product is covered by a 1-year warranty against manufacturing defects from the date of purchase. The warranty covers repair or replacement of defective parts. It does not cover damage caused by misuse, wrong voltage connection, unauthorized disassembly, water ingress, or normal wear.

11. AFTER-SALES SERVICE

For any questions, spare parts or warranty service, contact:

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