

TY50 3-Color LED Warning Light

User Manual

3 Colors in One Unit · DC24V · Aluminum Alloy · Optional Buzzer

Product Model:
TY50

Kemotronics Industrial Lighting
www.cnclight.com

1. PRODUCT OVERVIEW

The TY50 3-Color LED Warning Light is a professional-grade industrial signal lamp that integrates red, yellow and green LED groups into one compact aluminum-alloy body. Each color is controlled independently, so a single fixture can indicate machine running, standby and alarm status at a glance. Designed for CNC machine tools, injection molding machines, presses, automation lines and other industrial equipment. Rated DC24V.

2. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	TY50
Type	3-Color LED Warning Light
Light Source	LED, steady-on
Light Colors	Red / Yellow / Green (independent groups)
Rated Voltage	DC24V
Housing	High-strength Aluminum Alloy
Lens	High-transparency PC
Base	4-hole flange, screw fixing
Buzzer	Optional (alarm version)
Lamp Diameter	Approx. 50mm
Overall Height	Approx. 158mm (standard flange base)
Operating Temp	-25°C to +55°C

Rod-base and 90-degree foldable-base versions are available at greater heights.

3. PACKAGE CONTENTS

1 x TY50 3-Color LED Warning Light (base type as ordered)

1 x User Manual

(Mounting screws may or may not be included depending on batch - contact seller if needed.)

4. INSTALLATION INSTRUCTIONS

Step 1: Verify that the supply voltage matches the rated voltage (DC24V) before installation.

Step 2: Select a clean, flat, vibration-free mounting surface.

Step 3: Drill the mounting holes to match the 4-hole flange base, leaving an opening for the cable.

Step 4: Secure the lamp with screws through the flange holes. Tighten evenly.

Step 5: Connect the wires according to the wiring table in Section 5, then power on and test each color group.

5. WIRING DIAGRAM

Wire Color	Function
Red (R)	Red LED group control
Yellow (Y)	Yellow LED group control

Green (G)	Green LED group control
Blue (BU)	Common line
Brown (BN)	Power +DC24V (if present)

Note: Each color group is driven independently. For NPN-type control, connect the common line to 0V and switch each color line to +24V; for PNP-type control, connect the common line to +24V and switch each color line to 0V. Wire colors follow the cable label; if your unit differs, follow the on-product label. The buzzer version adds a buzzer control lead.

6. COLOR STATUS RECOMMENDATIONS

Green — Normal operation / Machine running

Yellow — Warning / Standby / Attention required

Red — Fault / Alarm / Emergency stop

7. MAINTENANCE AND CARE

- Clean the lens periodically with a soft, dry cloth to maintain brightness.
- Do NOT use abrasive cleaners, solvents, or high-pressure water.
- Check mounting screws periodically for tightness.
- Inspect wiring connections every 6 months for corrosion or loosening.
- Store in a cool, dry place when not in use.

8. SAFETY WARNINGS

- ❑ Disconnect power before installation or maintenance.
- ❑ Use only the rated voltage (DC24V). Incorrect voltage may damage the product.
- ❑ Do NOT disassemble or modify the product. No user-serviceable parts inside.
- ❑ Indoor/industrial use only. Do NOT use in explosive environments.
- ❑ Operating temperature: -25°C to +55°C.
- ❑ Installation should be performed by a qualified electrician or technician.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on	No power supply	Check power source and connections
	Incorrect wiring	Verify wiring per Section 5
	Wrong voltage	Use correct DC24V supply
One color not lighting	Loose connection	Tighten that color wire
	Faulty LED group	Contact seller for replacement
Light dim/flickering	Loose connection	Tighten all wiring connections
	Insufficient voltage	Check power supply output
Buzzer not sounding (buzzer version)	Buzzer lead not connected	Connect buzzer control lead

	Signal not triggered	Check control signal wiring
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10. WARRANTY POLICY

1-year warranty against manufacturing defects in materials and workmanship.

Covers: replacement or repair of defective units.

Does NOT cover: improper installation, incorrect voltage or power surges, normal wear, unauthorized repairs.

11. AFTER-SALES SERVICE

Contact: Jude

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