

N3-80 LED Signal Tower Light

User Manual

80mm Large Diameter · 3-Color RYG · DC12-24V · Optional Buzzer

Product Model:
N3-80

Kemotronics Industrial Lighting
www.cnclight.com

1. PRODUCT OVERVIEW

The N3-80 LED Signal Tower Light is a professional-grade industrial warning light featuring an 80mm large-diameter lamp body for maximum visibility. Available in 2-layer (Red/Green) and 3-layer (Red/Yellow/Green) configurations with optional built-in buzzer (~90dB). Designed for CNC machine status indication, industrial automation, and factory floor warning applications.

2. TECHNICAL SPECIFICATIONS

Parameter	Value
Model	N3-80
Type	LED Signal Tower Light
Diameter	80mm (large)
Rated Voltage	DC12-24V
Power	4W (3-layer with buzzer)
Light Colors	Red / Yellow / Green
Buzzer	~90dB (optional)
Lamp Body	Aluminum Alloy
Lampshade	High-transparency PC
Base	Thickened PC
Mounting	4x Φ 5.5mm on Φ 70mm PCD
Operating Temp	-25°C to +55°C

Dimensions: 2-layer ~230mm(H), 3-layer ~366mm(H)

3. PACKAGE CONTENTS

- 1 x N3-80 LED Signal Tower Light
- 1 x Mounting bracket with screws
- 1 x User Manual

4. INSTALLATION INSTRUCTIONS

- Step 1: Verify supply voltage matches rated voltage (DC12-24V).
- Step 2: Select a flat, clean mounting surface away from strong vibration.
- Step 3: Drill 4x mounting holes (Φ 5.5mm) on Φ 70mm circle with center hole (Φ 40mm).
- Step 4: Secure the signal light using provided screws. Tighten evenly.
- Step 5: Connect wiring per diagram. Observe correct polarity for DC supply.
- Step 6: Power on and test all light colors and buzzer (if equipped).

5. WIRING DIAGRAM

Wire Color	Function
Red (R)	Layer 1 - Red Light

Yellow (Y)	Layer 2 - Yellow Light
Green (G)	Layer 3 - Green Light
Blue (B)	Common / Ground (0V)
Violet (VT)	Buzzer (if equipped)
Brown (BN)	Power Supply (DC12-24V+)
Blue (BU)	Power Supply (0V/GND)

Note: For PNP configuration common is 0V. For NPN configuration common is +V.

6. COLOR STATUS RECOMMENDATIONS

Green — Normal operation / Machine running

Yellow — Warning / Attention required / Standby

Red — Fault / Alarm / Emergency stop

7. MAINTENANCE AND CARE

- Clean the lampshade periodically with a soft, dry cloth.
- Do NOT use abrasive cleaners or solvents.
- Check mounting screws periodically for tightness.
- Inspect wiring connections every 6 months.
- Store in a cool, dry place when not in use.

8. SAFETY WARNINGS

- ❑ Disconnect power before installation or maintenance.
- ❑ Use only rated voltage (DC12-24V).
- ❑ Do NOT disassemble or modify the product.
- ❑ Operating temperature: -25°C to +55°C.
- ❑ Installation by qualified personnel only.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on	No power supply	Check power source and connections
	Incorrect wiring	Verify wiring per diagram
	Wrong voltage	Use correct DC12-24V supply
Light dim/flickering	Loose connection	Tighten wiring connections
	Insufficient voltage	Check power supply output
Buzzer not sounding	Buzzer wire not connected	Connect violet wire
	Wrong configuration	Check PNP/NPN setting

10. WARRANTY POLICY

1-year warranty against manufacturing defects.

Covers: replacement or repair of defective units.

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

11. AFTER-SALES SERVICE

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