



NBP_1BDTRYG50C Touchable LED Warning Light

Introduction

- Illuminated dome gives a clearly visible Red, Yellow or Green work-light signal.
- Aluminium body with a polycarbonate (PC) dome cover for a rugged, durable build.
- Simple touch-activated operation — no separate button assembly required.
- Compact single-point indicator for error-proofing and status signalling on production lines.

Application

CNC machines, automatic/automation equipment, SMT lines, robotic and multi-station work-cells, and general production-line status signalling.



Warranty: [insert warranty period]

Certification: CE (marked on unit)
NBP_1BDTRYG50C — touch-sense dome

Ordering Code

NBP	I	B	D	T	RYG (Touchable)	50
Prefix	1: Single layer	B: DC24V	D: Steady on-touch	T: PNP	R / Y / G	50: Ø50mm

This data sheet covers the shipped configuration NBP_1BDTRYG50C: DC24V supply, steady (non-flashing) output, PNP wiring, Red/Yellow/Green colour, Ø50mm dome, as marked on the unit label.

Dimensions

Dome diameter: Ø50 mm

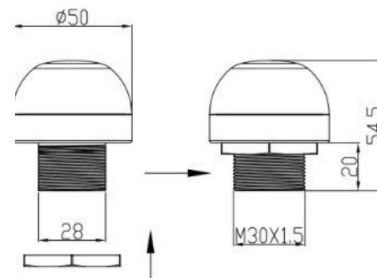
Overall height: approx. 54.5 mm

Mounting thread: M30 × 1.5

Cable exit: Direct wire lead (no connector)

Cable type: AWM 2464, 80°C, 300V, VW-1

Installation: Fixed by thread



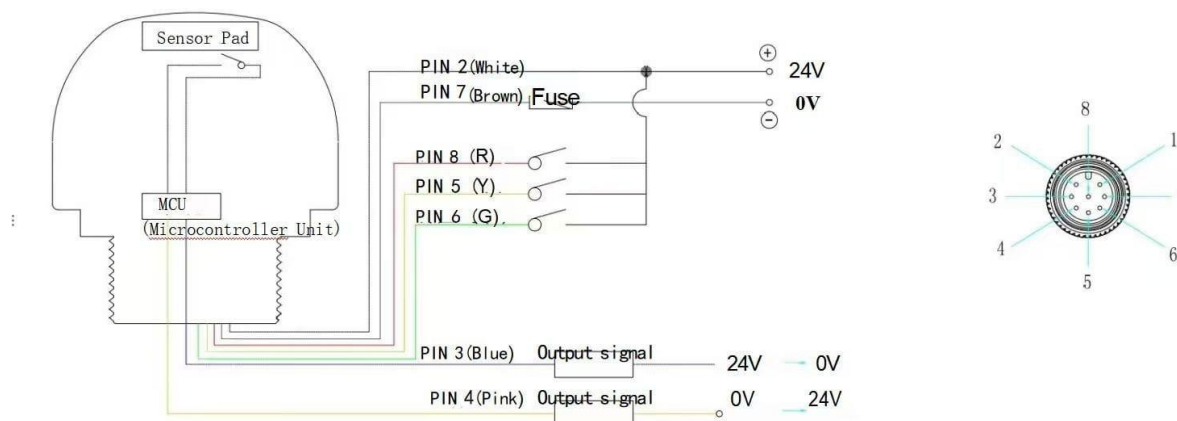
Wire directly

Parameters

Full power	0.7 – 2.2 W
Input voltage	DC 24V
Output current	30 – 50 mA per colour
Working temperature	-20°C to +45°C
IP rating	IP50 / IP67
Material	Aluminium body, PC dome cover
Lifetime	50,000 hours
Wiring type	PNP
Colours	Red / Yellow / Green
Function	Steady (on touch)

Wiring Instructions

1. Connect the White and Brown wires to the positive (+) and negative (–) terminals of the DC24V supply.
2. Connect the red, yellow and green wires to the corresponding PLC inputs to drive each colour.
3. Touch sensing output (PNP): when the dome top is touched, the output signal line switches state to signal the PLC — confirm the exact idle/active voltage levels against the unit you receive, as these can vary by wiring batch.



PNP wiring diagram — external transistor / load connection

Wire reference:

Wire colour	PIN NO	Connection	Function
White	Pin 2	DC24V (+)	Power supply negative
Brown	Pin 7	DC24V (–)	Power supply positive
Red	Pin 8	PLC input	Red LED control
Yellow	Pin 5	PLC input	Yellow LED control
Green	Pin 6	PLC input	Green LED control
Touch output (PNP)Blue	Pin 3	24 volt	Switches state when dome is touched
Pink	Pin 4	0 volt	

Product Photos

NBP_1BDTRYG50C — actual unit, multiple angles.



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