Product Specification Sheet
WNC-DLC
Dome Light Control



WNC-DLC
Dome Light Control

The WNC-DLC Dome Light Control is a vital visual annunciation routing component engineered specifically for emergency communication and wireless nurse call infrastructures. Acting as the critical hardware bridge between the central wireless console and corridor visual indicators, the WNC-DLC converts digital RF call events into real-time, physical visual alerts outside patient rooms.
Upon receiving an active alarm from the wireless network, the WNC-DLC transmits instantaneous, targeted visual signaling to multi-status corridor lamps through a single pair of low-voltage wires. This ensures immediate situational awareness for clinical staff, directing them efficiently to the exact origin of a call.

Specifications

- **Input Voltage:** 12V DC to 24V DC (Typically sourced from system central power supply)
- **Maximum Current Output:** 2.025A maximum combined load
- **Relay Ratings:** 4 addressable output relays × 500mA maximum per relay
- **Wiring Requirements:** Traditional: 18-2 AWG CL3R (single bulb) / 18-4 AWG CL3R (multi-color)
- **Dimensions:** 4.8" H × 3.2" W × 2.5" D
- **Mounting Configuration:** Surface wall mount or standard multi-gang electrical backbox deployment
- **Enclosure Composition**: High-impact, flame-retardant ABS medical-grade polymer

Equipment Options

- WNC-DLC Dome Light Controller: Required for operation; serves as the interface between the wireless system and the dome light.
- Alternative Lenses: Available in various colors (typically White, Red, Amber, Green) depending on facility-specific alerting protocols.
- Power Supply Options: Standard 12V-24V DC power input (compatible with localized power adapters or centralized power hubs).

Architects' and Engineers' Specifications

A. The contractor shall furnish and install the Wireless Nurse Call Dome Light Control unit, Model WNC-DLC, where indicated on the system design drawings. The controller shall serve as the dedicated hardware interface translating wireless console telemetry into distinct low-voltage visual corridor annunciation commands.

B. The controller must interface natively over an RF or supervised network with the central head-end console (equivalent PC-Based Wireless Console) without modifications to the master control firmware.

C. System wiring to downstream visual indicators shall utilize a standard low-voltage two-wire format capable of delivering both power and multi-state logic to separate light sections. The device shall dynamically modulate output lines to drive up to four distinct LED colors and independent flash cadences corresponding to user-programmed call priority thresholds.

D. The unit shall feature structural provisioning for surface-mount installation over standard North American electrical backboxes and must be composed of high-impact, medical-grade fire-retardant polymers.

BEC Integrated Solutions
Toll-Free: 888.556.3998
Phone: 716.689.0871
Address: 5225 SHERIDAN DR STE 110,
GEORGETOWN SQUARE, WILLIAMSVILLE NY 14221-4952
E-mail: support@becsolutionsllc.com

Compliance and Certification

The WNC-DLC is rigidly tested and verified to meet strict Life Safety and electronic emission guidelines for continuous operation within clinical environments:

- UL 1069 Listed: Standard for Hospital Signaling and Nurse Call Equipment (Certified for acute care, skilled nursing, and emergency clinical applications).
- FCC Part 15 Class A Compliant: Certified to eliminate harmful electromagnetic or radio frequency interference (RFI) with surrounding sensitive diagnostic and therapeutic hospital instrumentation.
- RoHS Compliant: Manufactured entirely free of lead, mercury, cadmium, hexavalent chromium, and polybrominated biphenyl hazardous materials.

Toll-Free: 888.556.3998
Phone: 716.689.0871
Address: 5225 SHERIDAN DR STE 110,
GEORGETOWN SQUARE, WILLIAMSVILLE NY 14221-4952
E-mail: support@becsolutionsllc.com