

WNC-125ELRB
Wireless RFID Room Elopement Locator

The WNC-125ELRB Wireless RFID Room Elopement Locator is a high-security monitoring peripheral engineered for wandering-patient protection, memory care units, and restricted-access clinical environments. It operates as an intelligent perimeter and doorway guard using a 125 kHz RFID scanning field to continuously monitor designated room thresholds, exit corridors, and doorways.

When a resident wearing a compatible active RFID wristband or ankle transmitter approaches the exit zone, the WNC-125ELRB detects the localized tag ID and transmits a high-priority elopement alert through a 900 MHz frequency-hopping spread spectrum (FHSS) network to the central wireless nurse call master console, corridor dome lights, and staff pocket pagers.

Specifications

- **Excitation Frequency:** 125 kHz low-frequency proximity field
- **Network Data Frequency:** 900 MHz Frequency-Hopping Spread Spectrum (FHSS)
- **Primary Input Power:** 12–15 VDC from local plug-in transformer or system power distribution panel
- **Current Consumption:** 250 mA nominal; 450 mA maximum during active relay state
- **On-Board Relay Rating:** Form-C (SPDT) dry contacts rated 1A @ 24 VDC / 0.5A @ 120 VAC
- **Operating Temperature:** 32°F to 120°F (0°C to 48°C), indoor use only
- **Enclosure:** Flame-retardant, high-impact ABS medical-white polymer
- **Dimensions:** Approximately 6.5" H × 4.5" W × 1.75" D

Equipment Options

- **WNC-125ELRB-M (Master Station):** Base locator unit with integrated RF transceiver, 125 kHz exciter antenna, and dry-contact alarm relays.
- **WNC-EX-ANT (External Exciter Antenna):** Auxiliary low-profile antenna extension for wider double doors or elevator vestibules.
- **WNC-RFID-WB (Resident Wristband):** Lightweight, water-resistant active 125 kHz RFID patient tag with tamper-resistant locking band.
- **WNC-RFID-KT (Keypad Reset Module):** Wall-mounted digital keypad allowing authorized staff to escort monitored residents through the zone without triggering an elopement alarm.

Architects' and Engineers' Specifications

- Provide and install WNC-125ELRB wireless RFID room elopement locators at restricted boundary doorways, memory care exits, and designated patient room entries.
- Combine a 125 kHz low-frequency patient proximity field with a supervised 900 MHz wireless transceiver network.
- Interface with the facility's wireless nurse call head-end console without requiring intermediate network middleware or physical data-loop wiring.
- Provide an adjustable detection perimeter from 3 to 10 feet from the installation plane.
- Include one programmable Form-C auxiliary relay for magnetic door locks or secondary visual notification equipment.
- Include an internal wall tamper switch capable of initiating an emergency data transmission if the unit is physically compromised.

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Product Specification Sheet

WNC-125ELRB

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Features

- **Adjustable Detection Proximity Field:** Technician-adjustable RFID excitation field from approximately 3 to 10 feet.
- **Dual-Frequency Architecture:** Combines 125 kHz localized RFID detection with 900 MHz wireless communication.
- **Supervised Anti-Tamper Switch:** Internal tamper switch triggers a priority system alarm if the enclosure is removed or dislodged.
- **Auxiliary Form-C Output Relay:** On-board dry-contact relay rated at 1A @ 24 VDC for external door locks, strobe lights, or local sirens.
- **Local LED Status Matrix:** Provides visual indication of power status, tag detection, and RF network link integrity.

Applications

- Wandering-patient protection
- Memory care facilities
- Restricted-access clinical environments
- Patient room entrances
- Memory care exits
- Restricted boundary doorways
- Exit corridors and monitored egress areas
- Elopement prevention and alerting

Compliance and Certification

- **FCC Part 15 Class B Compliant:** Designed and certified to minimize harmful electromagnetic and radio-frequency interference with surrounding clinical equipment.
- **UL 1069 Component Integration:** Engineered and tested for integration as an auxiliary component within UL 1069-listed Wireless Nurse Call systems.
- **RoHS Compliant:** Manufactured without lead, mercury, cadmium, polybrominated biphenyls (PBB), and other restricted hazardous substances.

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