

WCS Floor Call System

Product Specification

1. Product Overview

The WCS Floor Call System is a reliable, single-button wireless radio frequency (RF) signaling device. Designed for paging and remote call applications, it broadcasts a secure digital code to a paired receiver upon activation. Operating on a stable 315MHz frequency, this compact system battery-powered and requires no complex wiring, making it ideal for quick deployment in various calling scenarios.

2. Key Features

- **Stable RF Transmission:** Utilizes Surface Acoustic Wave (SAW) technology for highly stable 315MHz frequency broadcasting.
- **Secure Signal Encoding:** Employs advanced learning code technology, providing millions of unique address codes to prevent interference and unauthorized triggering.
- **Instant Visual Feedback:** Equipped with an integrated green LED indicator that illuminates during transmission to provide immediate visual confirmation to the user.
- **Wireless & Portable:** Fully wireless operation powered by a standard consumer battery.
- **Plug-and-Play Simplicity:** Single-button interface ensures zero learning curve for end-users.

3. Technical Specifications

System Parameters

- **Operating Frequency:** 315 MHz
- **Modulation Type:** ASK (Amplitude Shift Keying)
- **Encoding Format:** Learning Code (Multi-bit serialization)
- **Operation Mode:** Push-to-Transmit (Simplex)

Antenna

- **Type:** $\frac{1}{4}\lambda$ Wire Antenna
- **Center Frequency:** 315 MHz
- **Element Length:** 238 mm
- **Gain:** 2.0 dBi (typical)

Power & Electrical

- **Power Supply:** 9V DC
- **Battery Type:** Standard 9V Battery
- **Standby Current:** Ultra-low power consumption in idle state
- **Transmission State:** Active only while the button is pressed

User Interface (UI)

- **Input:** 1 x Tactile Push Button (Call Button)
- **Visual Indicator:** 1 x Emerald Green Status LED

4. Operational Guide

1. **Standby Mode:** The device remains in an ultra-low power standby state when not in

use to conserve battery life.

2. **Triggering a Call:** Press and hold the call button. The internal circuit wakes up instantly and begins broadcasting the encoded RF signal.
3. **Confirmation:** The Emerald Green LED will light up simultaneously, indicating that the transmission is active and the battery has sufficient power.
4. **Completion:** Release the button to stop the transmission. The LED will turn off, and the device will immediately return to standby mode.

5. Typical Applications

Elevator/Hoist Paging: Calling systems for construction hoists or freight elevators.**Hospitality & Health care:** Ward calling, service requests, or nurse call extensions.

Industrial & Logistics: Workstation material requests or supervisor paging.

General Access Control: Remote signaling for gates, doors, or alert systems.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.