4. TROUBLESHOOTING

If you encounter one of the following problems with the CS-732, use the following solutions to resolve the problem:

Problem	Solution
Attempt to pair the sensor is unsuccessful.	Please refer to control panel manuals for pairing.
The sensor and the control panel does not communicate.	Perform the signal strength testing procedure described in the control panel installation manual. Make sure that the signal is sufficient. If necessary, replace the sensor's battery.
The sensor sends a Low Battery indication.	To ensure continuous proper operation, replace the battery within two weeks of the first Low Battery indication.

5. COMPLIANCE WITH STANDARDS

FCC Statement: 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 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.

Warning: Changes or modifications not expressly approved by the Ecolink Intelligent Technology Inc. could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radiofrequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

Conformément aux exigences d'Industrie Canada en matière d'exposition humaine aux champs de radiofréquences, l'élément rayonnant doit être installé de telle sorte qu'une distance minimale de 20 cm soit maintenue par rapport à la population générale.

FCC ID: XQC-CS732
ICID: 9863B-CS732

CS-732
ClearSky Occupancy Sensor 345 MHz

Ecolink intelligent technology

Installation Instructions

1. INTRODUCTION

The CS-732 is a microprocessor-controlled wireless digital PIR occupancy sensor supported by ClearSky 345 MHz.

Tamper Switch

2. SPECIFICATIONS

Detector Type:	Two - Dual element low-noise pyroelectric sensor
Optical Data:	18 parabolic mirrors for long range
	18 parabolic mirrors for close range
Max. Coverage:	15 x 15 m, (49.2 x 49.2 ft) / 90°

ELECTRICAL

Internal Batteries:	Two 3V Lithium batteries, type CR-123A.
Nominal Battery Capacity:	1400 mAh per battery
Battery Life:	5 years

FUNCTIONAL

Occupancy Transmission:	Once the occupancy sensor is in normal operating mode (after exiting the 15 minute walk test mode) the occupancy sensor will send an occupied transmission to the control panel upon motion detection. The sensor will not re-send occupied transmission signal until after approximately 3 continuous minutes without motion has been observed by the sensor. After approximately continuous 3 minutes without motion, the sensor will send an unoccupied transmission signal to the control panel and resume normal occupancy detection.
Visual Indications:	Upon installing the batteries or removing the pull tab, the red LED will flash for approximately 1 to 2 minutes during the power-up stabilization period. The sensor will then automatically enter the 15 minute walk test mode. During the 15 minute walk test mode, the red LED lights for about 3 seconds upon motion detection prior to transmission of the occupancy signal. The LED does not light upon transmissions or detection after the 15 minute walk test mode has ended.

WIRELESS

Supported Network:	ClearSky
Frequency:	345 MHz
Tamper Alert:	Reported when a tamper event occurs and in any subsequent message, until the tamper switch is restored

MOUNTING

Height:	1.8-2.4 m (6 - 8 ft).
Installation Options:	Surface or corner

ENVIRONMENTAL

Operating Temperatures	-10˚ C to 55˚ C (14˚ F to 131˚ F)
Storage Temperatures	-20˚ C to 65˚ C (-4˚ F to 149˚ F)

PHYSICAL

Size (H x W x D)	83 x 61 x 42 mm (3.27 x 2.4 x 1.66")
Weight (with battery)	90 g (3.17 oz)
Color	White

3. INSTALLATION

3.1 General Guidance

1. Do not install near heating and cooling sources.
2. Do not aim detector at windows due to risk of drafts.
3. Do not install outdoors.
4. Do not install where direct sunlight can strike the unit.
5. Do not install near high-voltage electrical lines.
6. Do not install behind any obstructions.
7. Do not mount on unstable surfaces.

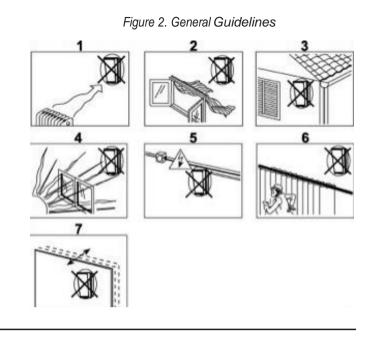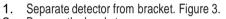*Figure 2. General Guidelines*

3.2 Installation Procedure

1. Separate detector from bracket. Figure 3.
2. Remove the bracket.
3. Mount bracket to wall using the center screw holes (B) or corner screw holes (A1 & A2). Figure 4.
4. Install new batteries OR if batteries are installed, remove the activation strip.
5. Remount the detector by sliding it down onto the bracket until a click is heard. Figure 5.
6. The unit is ready for walk test.

Figure - 3

Figure - 4

Figure - 5

A1   B   A2

3.3 Replacing the Batteries

1. Press upward to separate the detector from the bracket.
2. Replace the batteries.
3. Put back the detector on the bracket.

Note: *It is recommended to wait approximately 1 minute after battery removal before inserting the new battery.*

CAUTION! *Risk of explosion if battery is replace by an incorrect type. Dispose of used battery according to the manufacturer's instructions.*
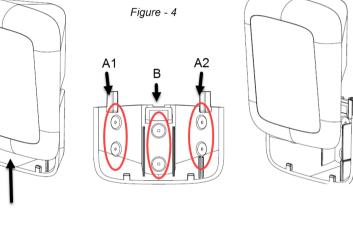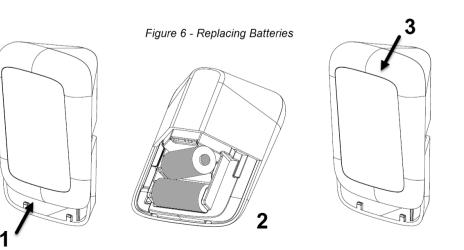
Figure 6 - Replacing Batteries

1   2   3

3.4 Activating and Pairing the Detector

To pair the detector to the control panel, you must set the panel to pairing mode.
1. First set the control panel to pairing mode.
2. To activate, pull the activation strip that protrudes from the back of the detector or insert the batteries.
3. If required, manually enter in the serial number of the sensor to the control panel.
4. Verify from the control panel that the sensor has been paired.
   Note: Pairing should be performed before installation.

   Note: Serial number is the 6 digits located in the battery compartment underneath the QR code.

3.5 Rebooting the Detector

To reboot the detector, complete the following steps:
1. Remove the battery cover.
2. Remove the batteries for 3 seconds and reinstall them.
3. Close the battery cover.

Note: Rebooting the detector will put it in walk test mode for 15 minutes.
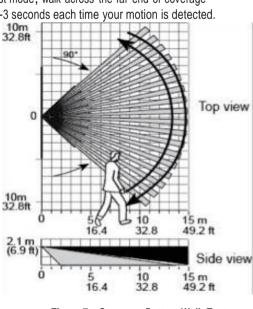
3.6 Unpair the Detector from Panel

1. Follow control panel instructions to remove the sensor from the network.

3.7 Walk Testing

While the occupancy sensor is in the 15 minute walk test mode, walk across the far end of coverage pattern in both directions. The LED should light for 2-3 seconds each time your motion is detected.

Important! Instruct the user to walk test at least once a week to verify proper function of the detector.

Note: *After battery insertion or closing the cover (which results in closing the tamper switch)the LED flashes for 1 to 2 minutes and the detector goes into walk-test mode for 15 minutes. In walk test mode the LED lights for every motion detected. After 15 minutes the detector automatically enters normal mode in which the LED will not blink after detection.*
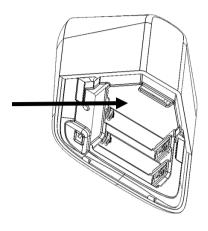

Figure 7 – Coverage Pattern Walk-Test