

Echoflex Installation Guide

Cubicle Occupancy Sensor ERUSB-C

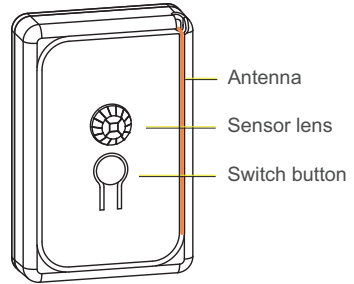
Overview

The Cubicle Occupancy Sensor (ERUSB-C) uses passive infrared (PIR) technology to provide wireless occupancy and switch control for small spaces.

The ERUSB-C detects motion and transmits the occupancy status to control the lighting for a space. The built-in button provides manual switch control.

Powered by a USB port on any PC, the ERUSB-C can be mounted at desk level or on a partition wall.

This document covers installation and operation. The product package includes the interface and a 1 m (3.2 ft) USB 2.0 cable (type A to type mini-B).



Prepare for Installation

To ensure optimal function, consider the installation environment and the following guidelines:

- For indoor use only. Operating temperature -10°C to 45°C (14°F to 113°F), 5%–92% relative humidity (non-condensing).
- High-density construction materials and large metal appliances or fixtures in the space may disrupt wireless transmissions.
- Install the device within range of linked receivers or controllers, 24 m (80 ft). Consider adding a repeater to extend reception range.

Supplies required to install (not provided):

- Double-sided tape or Velcro®



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Installation

The ERUSB-C is powered through a USB port.

1. Plug the mini-B end of the USB cable into the ERUSB-C and the other end into a computer USB port or wall plug adapter.
2. Use double-sided tape or Velcro to mount the ERUSB-C to the wall, if required. Position the ERUSB-C facing the work station or underneath the desk where the occupant's legs rest.

Link to a Controller

The compatible target controller must be installed, powered, and within range of the ERUSB-C. Both the occupancy sensor and the manual switch must be linked separately using the following two processes.



Note: *The linking process can be used both to link a device to a controller and to unlink a linked device from a controller.*

To link the occupancy sensor:

1. Press the **[Learn]** button on the controller to activate Link mode. If necessary, refer to the related product documentation.
2. Press and hold the button on the ERUSB-C for five seconds.
3. Deactivate Link mode on the controller.

To link the manual switch:

1. Press the **[Learn]** button on the controller to activate Link mode. If necessary, refer to the related product documentation.
2. Press the button on the ERUSB-C once and then press and hold the button for five seconds.
3. Deactivate Link mode on the controller.



Note: *To use the manual override, you may have to press the button more than once as the ERUSB-C does not track the relay state.*

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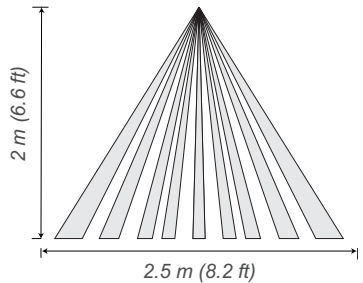
Sensor Operation

The ERUSB-C uses a short-range occupancy sensor lens to control lighting in a small office or cubicle space. The button operates like a wall switch to control ON and OFF manually. The green LED near the USB cable port indicates the last switch action: on when last ON, and off when last OFF.

The sensor uses passive infrared (PIR) and has a detection range of 2 m (6.6 ft) from the sensor and 2.5 m (8.2 ft) in diameter.

Within this range, small movements such as hand gestures like lifting a coffee cup are detected as occupancy. The ERUSB-C sends a wireless message as follows:

- Transmits a message immediately when the occupancy state changes from vacant to occupied.
- Transmits a vacant state message if no motion is detected for 200 seconds after last occupied state message.
- Transmits the current occupancy state every 100 seconds (heartbeat message).



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Compliance

For complete regulatory compliance information, see the Cubicle Occupancy Sensor datasheet at echoflexsolutions.com.

FCC Compliance

Echoflex Cubicle Occupancy Sensor

(For any FCC matters):

Echoflex Solutions, Inc.

3031 Pleasant View Road

Middleton, WI 53562

+1 (608) 831-4116

echoflexsolutions.com

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.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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. Any modifications or changes to this product not expressly approved by Electronic Theatre Controls, Inc. could void the user's authority to operate the product. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at their own expense.

Contains FCC ID: SZV-STM300U

ISED Compliance

This device contains a license-exempt transmitter/receiver that complies with Innovation, Science, and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Contains IC ID: 5713A-STM300U

Conformité ISDE

Cet appareil contient un émetteur/récepteur conforme aux CNR d'Innovation, Sciences et Développement économique Canada (ISDE) applicables aux appareils radio exempt de licence. Son fonctionnement est soumis aux deux conditions suivantes:

1. L'appareil ne doit pas produire d'interférences.
2. L'utilisateur de l'appareil doit accepter toute interférence, même si l'interférence est susceptible d'en compromettre le fonctionnement.

Contient ID IC: 5713A-STM300U