ERUSB-C
User Guide

Product Overview

Echoflex's ERUSB-C is a wireless Passive Infrared (PIR) occupancy sensor and switch in a small package perfect for cubicle switch station applications. Powered through a USB connection and mounting at desk level or on a cubicle partition wall, the ERUSB-C detects motion and transmits the occupancy status via an EnOcean telegram.
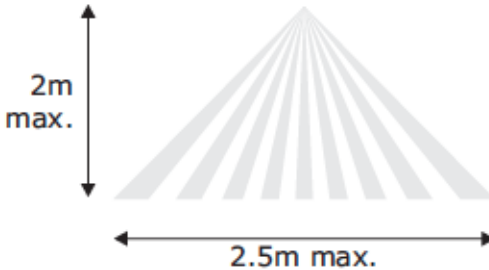
The cubicle switch station can be linked to any of Echoflex's line of embedded controllers or other EnOcean receivers. Assigning the ERUSB-C to overhead lighting fixtures or task lighting can automate each cubicle space with individual lighting control. The built-in toggle switch allows manual override of the light.

The ERUSB-C comes with a 1 meter USB 2.0 cable for connection to laptops and computers.

Using the Cubicle Controller

The cubicle controller can be used as a manual light switch and as a cubicle occupancy sensor. The button switch on the cubicle controller sends PTM switch telegrams (press and release) alternating between On and Off telegrams. Pressing the button once simulates pressing a EnOcean wall switch ON. Pressing the button again sends an OFF telegram. A green LED near the cable port will be ON when last ON, off when last OFF

The occupancy sensor is a passive infrared (PIR) sensor and is designed for small areas like an office or cubicle space. The sensors range is cone shaped, 2m (6½ feet)in length from the sensor and 2.5m (8 feet) in diameter.

Within this range small movements such as hand gestures or picking up the phone or coffee mug will trigger occupancy. A red LED will light when detecting motion.

- The cubicle controller will transmit on a change of occupancy state immediately when changing from unoccupied to an occupied state.
- The sensor will pause 20 seconds after last occupancy before transmitting on un-occupied state.
- A 100 second heartbeat timer will transmit the sensors current state.

Planning the Installation

The ERUSB-C is a wireless transmitter intended to be used with Echoflex lighting control products. Locating the wireless transmitters to work with the lighting controller requires planning. Careful consideration should be made for locating the controllers and transmitters based on the construction materials in the space and possibility of tenant's furniture disrupting the transmissions. Fire doors, elevator shafts or any large metal products will disrupt wireless transmissions.

Installing the ERUSB-C

The cubicle controller is powered through a USB port. The cubicle controller comes with a USB 2.0 cable type A to type mini-B

1. Plug the USB cable's mini-B end into the ERUSB and the other end into a computers USB port or alternatively into a wall plug adapter.
2. The controller can be mounted with double-sided tape or Velcro™. Adhere to the cubicle wall facing the work station or underneath the desk where the occupants legs rest.

Linking the ERUSB-C to a Receiver

The cubicle controller can send two data telegrams. The button sends a switch telegram and the sensor which sends an occupancy telegram. Each telegram must be linked to a receiver separately.

Linking the occupancy sensor

- Place the receiver in LINK mode, consult the manufactures instructions if necessary.
- Press and hold the button on the ERUSB for five (5) seconds. The ERUSB will transmit the TEACH command for the occupancy sensor.
- Exit LINK mode

Linking the switch

- Place the Echoflex receiver in LINK mode, consult the receivers instructions if necessary.
- Press the button on the ERUSB once then press and hold for (5) five seconds, both within seven (7) seconds. The ERUSB will send three (3) PTM ON commands.
- Exit LINK mode

Specifications

Equipment Profiles

       EEP: A5-07-01 Occupancy Sensor

       EEP: F6-02-02 Light & Blind Control

Communications 902 or 868 MHz

Power	USB 2.0 Port
Weight	1.2 oz. (34 gms.)
Dimensions	3.2"x 2.1"x 0.7" (82 x 54 x 17 mm)
Antenna	Integrated
Input	Button Switch
Output	Power LED

Agency Listing and Compliance

(902 MHz models only)

FCC Part 15.231 - Remote Control Transmitter IC RSS-210

Contains FCC ID: SZV-STM300U

The enclosed device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

       (I.) this device may not cause harmful interference and

       (ii.) this device must accept any interference received, including

           interference that may cause undesired operation.

Contains IC: 5713A-STM300U