



Overview

The ILLUMRA Wireless Door/Window Sensor can maximize energy savings of HVAC, Lighting and other systems by providing wireless status of windows and/or doors. The sensor uses a magnet contact switch that is powered by a solar cell and communicates with a wide variety of ILLUMRA products.

Compatible Devices

- 3-Wire Relay; E3R-Rxx-3HOxP
- 5-Wire Relay; E3x-Rxx-5IBxP
- Plug-in Relay; E3R-R12GP
- 4-Channel Low Voltage Receiver; E3R-MICFP-04
- Room Controller; E3X-MRCFP-xx
- More receivers available

Components Included

- A -- (1) ILLUMRA Door/Window Sensor
- B -- (1) Magnet
- C -- (2) #6 x1/4 Set Screw
- D -- (2) #2 x 1/2 Screw
- E -- (2) #4 x 1/2 Screw
- F -- (1) Double-Sided Adhesive Tape

Installation

Steps for installing self-powered Door/Window Sensor.

1. Choose the optimal mounting location.
2. Pair sensor to receiver and test communication at proposed mounting location.
3. Mount sensor.

1. Choose the optimal mounting location

The long term reliability and performance of the sensor will be determined by the mounting location. Choose a mounting location carefully.

For best radio performance:

- The sensor transmission range is typically 15 to 60ft (5 to 20m) and varies depending on the environmental factors including proximity to metal, obstructions and interference.

Installation Guide

Door/Window Sensor



- Mounting on or near metal will reduce the range.
- Mounting higher and away from obstructions will maximize the range.

For proper light exposure:

- Select location to ensure sensor is exposed to 200 lux illumination for at least 2 hrs per day.
- Artificial light should be as direct as possible, not from a steep angle.
- Confirm window coverings or obstructions do not interfere with light exposure on sensor.
- Consider future obstructions that may reduce sensor light exposure based on intended use of room.

Note: Before use, charge for 30 minutes in 200-400 Lux after opening.

2. Pair sensor to receiver and test communication at proposed mounting location

- Use instructions for learning from the receiver installation guide.
- Press teach button through the small opening on the side of the sensor. LED visible through indicator opening on side of sensor will blink when sensor transmits.
- Test sensor communication at proposed mounting location and confirm reliable operation.

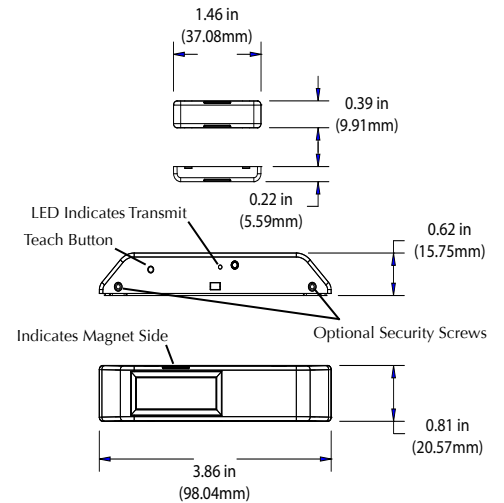
2. Mount Sensor

- Use provided screws or double-sided tape to mount the sensor and magnet.
- Carefully align marks on side of magnet and sensor.
- Sensor will detect closed position when magnet is within 0.175 inches (4.5mm) of alignment mark on sensor.
- An alignment template is provided on this guide for convenience.
- Magnet may be installed at right angle to sensor if desired.
- Optional Theft Deterrent. To reduce tampering, insert the provided set screws into the security holes on the side of the Door/Window sensor.

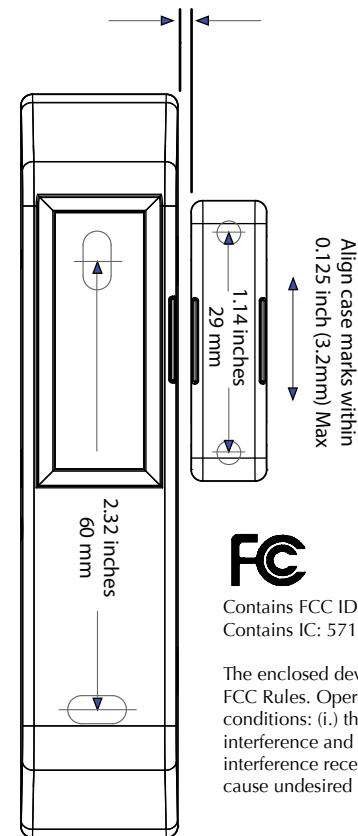
Specifications

	E3T-MDCCP
Range	15-60 feet
Power Supply	Integrated Solar Cell Illumination 50-100000 lux
Frequency	315MHz
EEP	06-00-01
Start-up Time with empty energy storage, typical	<2.5 min @ 400 lux, 25° C
Operating time in darkness from full charge	6 days
Dimensions	3.86 x 0.62 x 0.81 inches 98.04 x 15.75 x 20.57 mm
Operating Temperature	-20 to +60° C
Mounting	Screws or double-sided tape
Rating and Approvals	FCC ID: SZV-STM320C, IC: 5713A-STM320C

Dimensions



Separation Distance
0.175 inch (4.5mm) Max



Align case marks within
0.125 inch (3.2mm) Max

This device or certain aspects thereof is protected by at least one U.S. or international patent or has at least one such patent application pending.

ILLUMRA is a trademark of Ad Hoc Electronics, LLC. Other trademarks herein are the property of their respective owners.



Contains FCC ID: SZV-STM320C
Contains IC: 5713A-STM320C

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.



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No Wires, No Batteries, No Limits.