



# Zigbee Self-powered Rocker Switch

The ILLUMRA™ Zigbee™ Self-powered Single Rocker Light Switch uses no wiring or batteries. Pressing the switch creates enough energy to transmit wireless signals to control lights and other devices connected to compatible LED fixtures. These switches have built-in functionality for dimming and on/off control.

## Save Time, Energy, and Money

Installing a switch doesn't have to mean tearing open a wall, or hardwiring relays and lighting controls.



## Features:

- Battery-free wireless control.
- Fits standard single or multi-gang switch box.
- Available in 6 designer colors.
- Create 3 and 4-way switch layouts without wiring.
- Can surface mount anywhere.
- Patented tamper resistant design.



## Applications



Retrofitting



New Construction



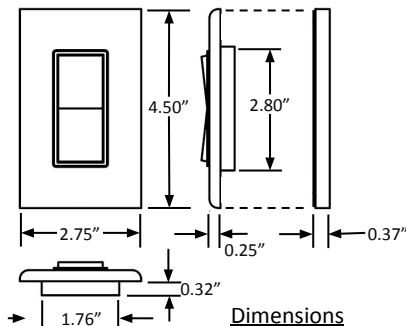
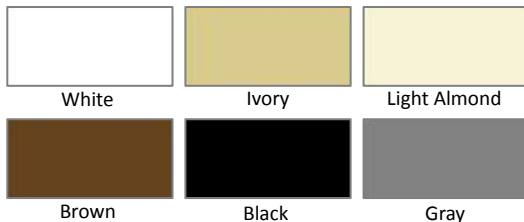
Classrooms



Offices



Warehousing



Dimensions

Technical Spec:	ZBT-S1Axx Models
Range	30-100 feet (10-30m) [typical]
Frequency	2.4 GHz (Zigbee channels 11-26)
Power Supply	EnOcean® Self-generated power when switch is pressed
Buttons	1 Rocker (2 button positions)
Output Channels	Only limited by number of receivers in range
Dimensions - Inches	2.75" (W) x 4.5" (H) x 0.62" (D)
Amb. Op. Temp. <sup>◇</sup> [Storage Temp.]	-13° to +149°F (-25° to +65°C) [-13° to +149°F (-25° to +65°C)]
Radio Certification	FCC (United States): SZV-PTM215Z I.C. (Canada): 5713A-PTM215Z
Addressing	Factory set unique ID (1 of 4 billion)

## Ordering (example: ZBT-S1AIV):

ZBT	-	S	1	A		
ZBT = Zigbee 2.4GHz Transmitter		S = Switch	1= Single Rocker‡	A = American Style*	WH = White LA = Light Almond IV = Ivory	BR = Brown BK = Black GY = Gray

\* European styles available, Contact Illumra for info.

‡ Dual Rocker versions available, Contact Illumra for info.

◇ Temp. difference between controllers and switches should not exceed 140° F (60° C)

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



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COMPATIBILITY		
Name	Model	Uses
EasySense Fixture-mounted Sensor	SNS210 MC	Supports dimming, on/auto-OFF or manual ON/OFF of integrated luminaires via ZBT-S1Axx
EasySense Accessory Ceiling Mounting Bracket	CMP	Supports install of SNS210 sensor to ceiling
Signify Xitanium Drivers*	-SR *	* ZBT-S1Axx rocker switches used in conjunction with SNS210 MC sensors: and paired with Xitanium SR bridges, will interoperate with SR type Xitanium dali dimming drivers

## LINKS

[Product Page](#)



Overview: EasySense  
Master Connect



SNS210MC  
User Guide



## BID SPECIFICATION~

### SELF-POWERED WIRELESS WALL SWITCHES

#### Part 1. Wireless Single Rocker Wireless Self-Powered Wall Switches

##### 1. Self-Powered Wireless Wall Switches

- a. ZBT-S1A(xx) ILLUMRA Single Rocker style wall switch by Ad Hoc Electronics Inc., or equal

##### 2. Mechanical

- a. Switches shall be Self-Powered, kinetic energy harvesting, and wireless
- b. Switches shall be Single Rocker (2-button) Standard North American Style
- c. Switches shall fit into a standard North American size light switch junction box
- d. It shall be possible to install multiple switches using surface mounting plates available from the manufacturer or standard electrical multi-gang switch boxes
- e. Surface Mounting Plates shall be provided with ZBT-S1Axx switch assemblies
- f. Switches must have a Tamper-Resistant feature built into the design
- g. All Switches shall be available in ivory, black, gray, white, brown, and light almond
- h. Switch faceplates shall be provided with ZBT-S1Axx switch assemblies
- j. Switches shall have a fully enclosed electronics assembly
- k. Switches shall be constructed of PC and ABS plastic

##### 3. Electrical

- a. Switches shall use 2.4 GHz Zigbee radios. Systems that use other radio frequencies shall not be acceptable
- b. Switches shall have a lateral range of at least 10 m (30 ft.) – commercial office space (typical)
- c. Switches shall comply with FCC Part 15.231 and IC RSS- 210

##### 4. Functional

- a. Switches shall be able to switch loads on and off when used with compatible relays and controllers
- b. Switches shall be able to dim loads up and down when used with compatible dimming relays and controllers
- c. Switches shall be able to offer momentary control functionality when used with compatible relays and controllers
- d. Switches shall be tested to exceed 250,000 presses

##### 5. Compliance

- a. Switches must be capable of meeting Buy American Act compliance