

# 4 Button Handheld Remote

The ILLUMRA™ Self-powered 4 Button Handheld switch uses no wiring or batteries. Pressing a switch creates enough energy to transmit wireless signals to control lights and other devices connected to Illumra receivers. These switches have built-in functionality for grouping, dimming, on/off, and momentary control.

### Save Time, Energy, and Money

Adding a handheld switch avoids tearing open walls, or hardwiring relays and lighting controls.



### Features:

- Battery-free wireless control
- 4 Button functionality
- Available in 2 designer colors
- Create 3 and 4-way switch layouts, or groups, without wiring
- Can surface mount anywhere
- Operates with all 902Mhz ILLUMRA controllers



## Applications



Retrofitting



New Construction



Classrooms



Offices



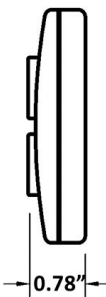
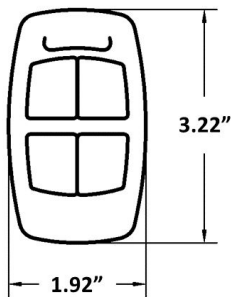
Warehousing



White



Black



**Dimensions**

Technical Spec:	E9T-S2Hxx Model
Range	50-150 feet (typical)
Frequency	902 MHz; EEPs: F6-02-01, F6-02-02
Power Supply	EnOcean Self-generated when switch is pressed
Buttons	4 button (positions)
Output Channels	Only limited by number of receivers in range
Dimensions - Inches	1.85”(W) x 3.15”(H) x 0.70”(D)
Amb. Op. Temp.◇ [Storage Temp.]	-13° to +149°F (-25° to +65°C) [-13° to +149°F (-25° to +65°C)]
Radio Certification	FCC (United States): SZV-PTM215U I.C. (Canada): 5713A-PTM215U
Addressing	Factory set unique ID (1 of 4 Billion)

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

## Ordering (example: E9T-S2HBK):

E9T	-	S	2	H	
E9T = EnOcean 902MHz**		S = Switch	2 = Multi-Button	H = Handheld wireless	WH = White BK = Black

\*\* Additional frequencies available, Contact Illumra for info.

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

# 4 Button Handheld Remote

COMPATIBILITY		
Name	Model	Uses
Wireless 0-10V LED Fixture Controller	E9X-DUV-10VTP-FX	0-10V dimming for light fixture (5A)
Wireless 0-10V Area Room Controller	E9X-DUV-10VTP	0-10V LED dimming controller area controller (20A)
Wireless On/Off LED Fixture Controller	E9X-RUV-3HOTP	On/Off controller for light fixture (5A)
Wireless On/Off Area Room Controller	E9X-RUV-4IBTP	On/Off area controller (20A) 4 wire, dry contact
8 Channel Low Voltage Relay Receiver	E9R-R04FP-8	Operate dry contact relays for HVAC, 3 phase motors, gates, lighting, etc...
PWM Low Voltage LED Dimmer	E9X-D02FL	PWM dimming controller for tape light, rope light, etc...

**LINKS**

[Installation Guide](#)

[Classroom on/off Multiples](#)

0-10V Controller



On/Off Controller



LV Relay Receiver



PWM LED Dimmer



## BID SPECIFICATION - SELF-POWERED WIRELESS SWITCHES

### Part 1. Wireless Dual Rocker Self-Powered Handheld Switches

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

- a. E9T-S2H(xx) Illumra 4 Button style Handheld switch by Ad Hoc Electronics Inc., or equal

#### 2. Mechanical

- a. Handheld Remote Switches shall be Self-Powered, kinetic energy harvesting, and wireless.
- b. Handheld Remote Switches shall be 4-button configuration.
- c. All Handheld Remote Switches shall be available in Black and White.
- d. Switches shall have a fully enclosed electronics assembly.
- e. Switches shall be constructed of ABS plastic.

#### 3. Electrical

- a. Handheld Remote Switches shall use 902 MHz EnOcean radios. Systems that use other radio frequencies shall not be acceptable.
- b. Handheld Remote Switches shall have a lateral range of at least 18 m (60 ft.) - commercial office space (typical), up to 30 m (150 ft.) line of sight.
- c. Handheld Remote Switches shall comply with FCC Part 15.231 and IC RSS- 210.

#### 4. Functional

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

#### 5. Compliance

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