

# CLWI-1SW2EX

## In-Wall 2-Channel Switch, 230VAC

- > Control two individual loads from a single gang
- > Field-replaceable and engravable buttons
- > Available in anthracite or white finishes
- > infiNET EX® robust communication
- > Configurable up to six buttons
- > Screw-clamp connectors for easy installation
- > Stylish bargraph LED array provides real-time status feedback

The CLWI-1SW2EX delivers native Crestron® control to up to two individual lights or other switched loads, in new or retrofit 230 Volt applications. Featuring reliable infiNET EX® wireless technology, the CLWI-1SW2EX can be installed in virtually any location thanks to reliable mesh networking. Dual-load control on the CLWI-1SW2EX is perfect for controlling a bathroom light and exhaust fan in a single gang.

### Field-Replaceable and Engravable Buttons

The CLWI-1SW2EX features engravable buttons that can be swapped out in the field. Change of room décor or functionality is easy to handle long after the dimmer or switch has been installed. Positive snap-on fittings require no tools. Configure the dimmer or switch with a large rocker, or any combination of up to two adjacent half-size rockers or triple button pad. Each CLWI-1SW2EX ships with a full assortment of blank buttons as well.

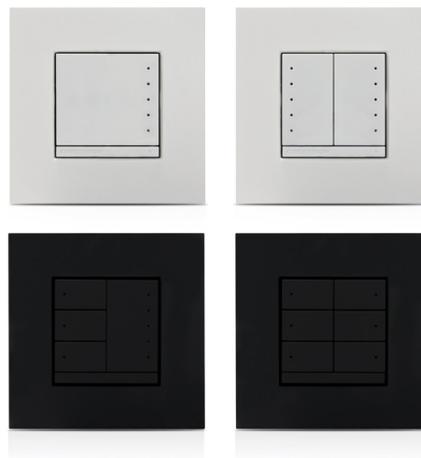
### Integrated Keypad

Because the CLWI-1SW2EX is attached to the Crestron network, it can also function as a keypad, sending commands to trigger whole-room lighting scenes or distributed audio functions. Supporting up to six buttons, the in-wall dimmer or switch serves as a great user control interface in any Crestron system. Its single-box form factor maximizes control capability in a small space while increasing the opportunity for Crestron control in every room. Also available are aesthetically matched standalone keypads which use Cresnet® or infiNET EX communications.

### infiNET EX

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.<sup>[1]</sup>

The CLWI-1SW2EX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-GWEXER](#), [DIN-AP3MEX](#), or [MC3<sup>\[2\]</sup>](#)). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths<sup>[1]</sup>. Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.



### Streamlined Installation

In addition to field replaceable buttons, the CLWI-1SW2EX features screw-clamp connectors for simplified wiring while reducing installation time and material costs. So slim, the CLWI-1SW2EX can be installed in square gang boxes making them the perfect choice for both new and retrofit projects.

## SPECIFICATIONS

### Load Ratings

**Load Types:** Incandescent, tungsten-halogen, magnetic low-voltage, CFL, fluorescent, electronic low-voltage, LED

**Maximum Load per channel:** 2 Amps/AX

### Power Requirements

220-240 Volts AC, 50/60 Hz, line power

### Controls

**Buttons:** Configurable for 1 rocker (up/down), or any combination of up to 2 small rockers and/or 2 three-button pad;

Maximum layout contains 6 buttons; each press configurable for up to 3 discrete functions via single click, double click and hold; Programmable via control system

### LED Indicator

**Feedback:** Up to (10) white LEDs, depending on button configuration

### Wireless

**RF Transceiver:** infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant

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**Range (typical):** 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); Subject to site-specific conditions and individual device capabilities<sup>[1]</sup>

**Gateway:** Requires an infiNET EX gateway<sup>[2]</sup>

## Connections

**Hot:** (1) 1.5 - 2.5 mm<sup>2</sup> (14-12 AWG), screw terminal, line power input  
**Neutral:** (1) 1.5 - 2.5 mm<sup>2</sup> (14-12 AWG), screw terminal, neutral input  
**Load 1, 2:** (2) 1.5 - 2.5 mm<sup>2</sup> (14-12 AWG), screw terminal, load outputs  
**Ground:** (1) screw post, ground

## Environmental

**Temperature:** 32° to 104°F (0° to 40°C)  
**Humidity:** 10% to 90% RH (non-condensing)

## Enclosure

1-gang mountable in a 35 mm deep square or round electrical box; gangable in horizontal and vertical positioning; Requires faceplate (not included)<sup>[3]</sup>

## Dimensions

**Height:** 2.80 in (72 mm)  
**Width:** 2.89 in (74 mm)  
**Depth:** 1.24 in (32 mm) including front face w/ buttons

## Weight

3 oz (85 g)

## MODELS & ACCESSORIES

### Available Models

**CLWI-1SW2EX-ANTH:** In-Wall 2-Channel Switch, 230VAC, Anthracite

**CLWI-1SW2EX-W:** In-Wall 2-Channel Switch, 230VAC, White

### Available Accessories

**CEN-GWEXER:** infiNET EX® & ER Wireless Gateway

**CEN-GWEXER-PWE:** infiNET EX® & ER Wireless Gateway w/ PoE Injector

**CENI-GWEXER:** infiNET EX® & ER Wireless Gateway - International Version

**CENI-GWEXER-PWE:** infiNET EX® & ER Wireless Gateway w/ PoE Injector - International Version

**MC3:** 3-Series Control System® w/infiNET EX®

**DIN-AP3MEX:** DIN Rail 3-Series® Automation Processor w/infiNET EX®

**CLW-EXPEX-GD-W-T:** infiNET EX® Wireless Expander, Ground Pin Down, White Textured

**GLA-EXPEX:** Crestron Green Light® Wireless Expander for infiNET EX® Networks

**CLWI-BTN-RKRLG-ANTH\_ENGRAVED:** Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

**CLWI-BTN-RKRLG-W\_ENGRAVED:** Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

**CLWI-BTN-RKRSM-ANTH\_ENGRAVED:** Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

**CLWI-BTN-RKRSM-W\_ENGRAVED:** Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

**CLWI-BTN-SM-ANTH\_ENGRAVED:** Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Includes Custom Engraving

**CLWI-BTN-SM-W\_ENGRAVED:** Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Includes Custom Engraving

**CLWI-BTN-RKRLG-ANTH\_BLANK:** Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

**CLWI-BTN-RKRLG-W\_BLANK:** Large Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

**CLWI-BTN-RKRSM-ANTH\_BLANK:** Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

**CLWI-BTN-RKRSM-W\_BLANK:** Small Rocker Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

**CLWI-BTN-SM-ANTH\_BLANK:** Small Engravable Button Cap for International In-Wall Dimmers & Switches, Anthracite, Engraving Not Included

**CLWI-BTN-SM-W\_BLANK:** Small Engravable Button Cap for International In-Wall Dimmers & Switches, White, Engraving Not Included

### Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the CLW-EXPEX or GLA-EXPEX (sold separately), or other non-battery powered infiNET EX devices to ensure proper functionality of the network and battery life for the devices. Refer to the Best Practices for Installation and Setup of Crestron RF Products, Doc. #6689 for complete system design guidelines, or contact [Crestron True Blue Support](#) for further assistance.
2. Item(s) sold separately.
3. Faceplate not included. Requires an FP-INTENSE or FP-PURE faceplate, available in 18 colors and finishes up to 5-gang in size. Contact Crestron International by phone: +32.15.50.99.50 or email: [info@crestron.eu](mailto:info@crestron.eu).

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

Certain Crestron products contain open source software. For specific information, visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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## CAD DRAWINGS

