

Zūm™ Wireless Wall-Box Switch

- > Zūm™ wireless wall-box switch
- > Pair and play with Zūm occupancy sensors or vacancy sensors^[1]
- > Zūm Mesh peer-to-peer RF communications for easy integration into a complete standalone or networked Zūm wireless lighting control solution
- > Single rocker switch and status LED
- > Controls switched lighting loads
- > Rated 5 Amps at 120-277 Volts AC
- > Flying lead wiring connections
- > Standard 3-1/2 inch (89 mm) deep electrical box installation
- > Available in smooth black, white, or almond finishes
- > Matching decorator-style faceplate available separately
- > Meets CEC Title 24 energy efficiency standards^[3]
- > Meets ASHRAE 90.1 energy efficiency standards^[4]
- > Meets UL 916 standard for energy management equipment
- > ICC International Energy Conservation Code compliant^[5]

The Zūm™ wireless wall-box switch (**ZUMMESH-5A-SW**) provides control of a single switched 5 Amp, 100-277 Volt lighting load. It features a single rocker switch to enable simple on/off switching. Standard gang-box installation allows one or more units to be installed in a 3-1/2 inch (89 mm) deep electrical box (decorator-style **faceplate** sold separately).

Built-in Zūm Mesh wireless technology affords easy “pair and play” integration as part of a complete Zūm commercial room lighting system. Energy-saving options are available to enable occupancy or vacancy sensing, and centralized monitoring and management.^[1]

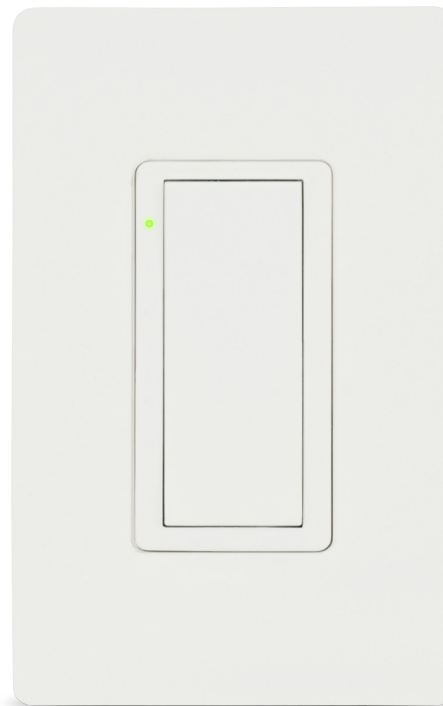
Pair and Play

Designed with flexibility and ease-of-use in mind, Zūm switches are pre-programmed with “pair and play” functionality. An installer can simply install the switch in a room along with Zūm **occupancy sensors** or **vacancy sensors**, set up the room with a few quick button taps, and then use the switch to control the lights in the room – no programming required! Room setup can also be accomplished using the Zūm app if the room is equipped with a **Zūm Network Bridge**. The Zūm Network Bridge also enables centralized monitoring and management via a **Zūm Floor Hub** and **Zūm Wireless Gateway**.^[1]

Zūm Mesh Wireless Technology

Ultra-reliable Zūm Mesh wireless technology provides steadfast peer-to-peer RF communications within a commercial space without the need for physical control wiring, hubs, or gateways. Employing a Wi-Fi® friendly 2.4 GHz peer-to-peer mesh network topology, nearly every Zūm Mesh device acts as an “expander,” relaying wireless commands directly between Zūm Mesh devices to ensure that every command reaches its intended destination without disruption.

Zūm Mesh is smart! Every Zūm Mesh device knows its purpose and just the right messages to communicate to other Zūm Mesh devices within the space. Each Zūm Mesh device that is added to the space effectively



increases the range and stability of the peer-to-peer mesh network by providing multiple redundant signal paths. Each Zūm Mesh device auto-negotiates its RF channel to provide robust communication and is protected through AES 128-bit encryption. The wireless range between any two Zūm Mesh devices is typically up to 50 ft (15 m) indoors.^[2]

Please refer to the Zūm Lighting Control System Setup Guide (Doc # 7957A) for additional information.

SPECIFICATIONS

Load Ratings

Per Unit: 5 Amps at 100-277 Volts AC, latching on/off relay
Switch Load Types: LED, fluorescent ballast, incandescent, magnetic low-voltage, electronic low-voltage, neon/cold cathode, high-intensity discharge

Power Requirements

Line Power: 120-277 Volts AC, 50/60 Hz
Idle Power Consumption: <1 Watt

Wireless Communications

RF Transceiver: 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant

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Züm Mesh Range (Typical): 50 ft (15 m) indoor to nearest peer-to-peer mesh network device(s); Subject to site-specific conditions and individual device capabilities^[2]

Note: A maximum of 32 Züm Mesh wireless devices is permitted per room.

Controls & Indicators

Switch: (1) 3-Position rocker switch (spring return to center); press up to turn the lighting load on, press down to turn the lighting load off; also used for room setup and factory reset

Status: (1) Green LED, indicates the lighting load is turned on; also used for room setup and factory reset

Connections

Hot: (1) 16 AWG Class 1 flying lead, black, line power input

Neutral: (1) 16 AWG Class 1 flying leads, white, neutral

Ground: (1) 16 AWG Class 1 flying lead, green, ground

Switched Load: (1) 16 AWG Class 1 flying lead, red, switched load output

Environmental

Temperature: 32° to 104° F (0° to 40° C)

Humidity: 10% to 90% RH (non-condensing)

Construction

Composition: Plastic housing and front face with metal bracket

Mounting: Mounts in a 1-gang (or larger) 3-1/2 inch (89 mm) deep electrical box (not included)

Faceplate: Requires a decorator-style faceplate (sold separately)

Dimensions

Height: 4.13 in (105 mm)

Width: 1.75 in (45 mm)

Depth: 1.80 in (46 mm)

Weight

5 oz (142 g)

Standards & Certifications

CEC Title 24 2013^[3], ASHRAE 90.1-2016^[4], IECC-2015^[5], UL 916, FCC

MODELS & ACCESSORIES

Available Models

ZUMMESH-5A-SW-A-S: Züm Wireless Wall-Box Switch, 5A, 100-277V, Almond Smooth

ZUMMESH-5A-SW-B-S: Züm Wireless Wall-Box Switch, 5A, 100-277V, Black Smooth

ZUMMESH-5A-SW-W-S: Züm Wireless Wall-Box Switch, 5A, 100-277V, White Smooth

Available Accessories

FP-G Series: Decorator-Style Faceplates

ZUMMESH-PIR-OCCUPANCY-BATT: Züm Wireless Battery-Powered Occupancy Sensor, 500 sq ft

ZUMMESH-PIR-VACANCY-BATT: Züm Wireless Battery-Powered Vacancy Sensor, 500 sq ft

Notes:

1. Item(s) sold separately. Refer to each product's spec sheet for more information.
2. "Züm Mesh" refers to the peer-to-peer wireless mesh network within a room composed of dimmers, switches, load controllers, keypads, and sensors. AC-powered Züm Mesh devices function as wireless "expanders," which effectively extend the range of the wireless network within the room. Battery-powered devices do not provide expander functionality. Networks composed predominantly of battery-powered devices may require additional AC-powered devices, such as the [ZUMMESH-JBOX-PSU](#), to function as expanders to fill any gaps in coverage.
3. This product is part of Crestron T24-2013 compliant solutions. Reference the T24-2013 design guide for additional devices required for fully compliant solutions.
4. This product is part of Crestron ASHRAE 90.1-2013 compliant solutions. Reference the ASHRAE 90.1-2013 design guide for additional devices required for fully compliant solutions.
5. This product is part of Crestron IECC-2015 compliant solutions. Reference the IECC-2015 design guide for additional devices required for fully compliant solutions.

All design guides can be accessed via the Consultant Partner Portal at <http://www.crestron.com/about/partner-info/consultants-uplink>.

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

For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline at clcdesign@crestron.com or by calling 888-330-1502.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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CAD DRAWINGS

