

## Zūm™ Wireless 0-10V Wall-Box Dimmer

- > Zūm™ wireless 0-10 Volt wall-box dimmer
- > Pair and play with Zūm occupancy sensors, vacancy sensors, and daylight sensors<sup>[1]</sup>
- > 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 0-10 Volt dimmable LED or fluorescent 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<sup>[3]</sup>
- > Meets ASHRAE 90.1 energy efficiency standards<sup>[4]</sup>
- > Meets UL 916 standard for energy management equipment
- > ICC International Energy Conservation Code compliant<sup>[5]</sup>

The Zūm™ wireless wall-box dimmer (ZUMMESH-5A-LV) provides control of a single 5 Amp, 100-277 Volt lighting load of 0-10 Volt dimmable LED drivers or fluorescent ballasts. It features a single rocker switch to enable simple on/off switching and dimming adjustment, with the ability to save one preset. 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).

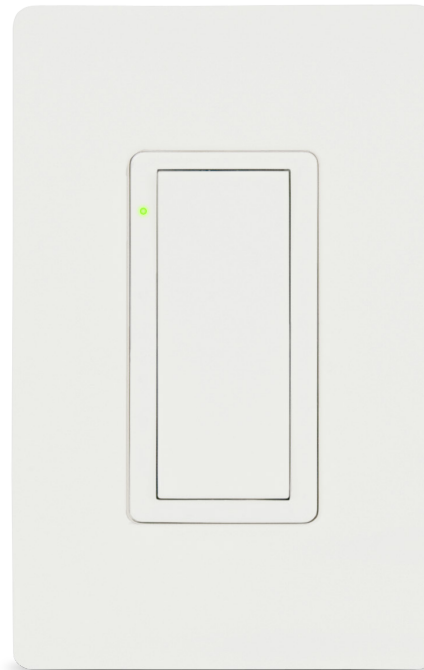
Built-in Zūm Mesh wireless technology affords easy “pair and play” integration as part of a complete Zūm commercial room lighting system. Energy-saving options are available to enable daylighting, occupancy or vacancy sensing, and centralized monitoring and management.<sup>[1]</sup>

#### Pair and Play

Designed with flexibility and ease-of-use in mind, Zūm dimmers are pre-programmed with “pair and play” functionality. An installer can simply install the dimmer in a room along with Zūm occupancy or vacancy sensors and/or a daylight sensor, set up the room with a few quick button taps, and then use the dimmer 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.<sup>[1]</sup>

#### 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.<sup>[2]</sup>

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, 50/60 Hz  
 Dim Load Types: 0-10 Volt LED driver or fluorescent ballast (4-wire), 60 mA maximum current sink  
 Dim Control Output: 0-10 Volts DC, 60 mA sink or source

### Power Requirements

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

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## 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

**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<sup>[2]</sup>

*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 recall the locally saved preset (turns the lighting load on at the saved preset dim level), press down to turn the lighting load off, press and hold up or down to raise or lower the dimming level; also used for creating a preset, room setup, and factory reset

**Status:** (1) Green LED, indicates the lighting load is turned on; also used for creating a preset, 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

**0-10V Dim +:** (1) 18 AWG Class 1 flying lead, purple, 0-10 Volt DC dimming control output, positive

**0-10V Dim -:** (1) 18 AWG Class 1 flying lead, gray, 0-10 Volt DC dimming control output, negative

## 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<sup>[3]</sup>, ASHRAE 90.1-2016<sup>[4]</sup>, IECC-2015<sup>[5]</sup>, UL 916, FCC

## MODELS & ACCESSORIES

### Available Models

**ZUMMESH-5A-LV-A-S:** Züm Wireless 0-10V Wall-Box Dimmer, 5A, 100-277V, Almond Smooth

**ZUMMESH-5A-LV-B-S:** Züm Wireless 0-10V Wall-Box Dimmer, 5A, 100-277V, Black Smooth

**ZUMMESH-5A-LV-W-S:** Züm Wireless 0-10V Wall-Box Dimmer, 5A, 100-277V, White Smooth

### Available Accessories

**FP-G Series:** Decorator-Style Faceplates

**ZUMMESH-0L-PHOTOCELL-BATT:** Züm Wireless Battery-Powered Daylight sensor, Open-Loop

**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](http://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](mailto:clcdesign@crestron.com) or by calling 888-330-1502.

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

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# ZUMMESH-5A-LV Züm Wireless 0-10V Wall-Box Dimmer

## CAD DRAWINGS

