ZUMMESH-KP

Zūm™

Zūm™ Wireless Keypad

- *AC-powered Zūm™ wireless keypads*
- *Pair and play control of one or more Zūm J-Box Load Controllers*[1]
- *Zūm Mesh peer-to-peer RF communications for easy integration into a complete standalone or networked Zūm wireless lighting control solution*[2]
- *Choice of single rocker switch or four pushbuttons*
- *Up to three scene presets with pushbutton version*
- *100-277 Volts AC line powered*
- *Flying lead wiring connections*
- *Standard 3-1/2 inch (89 mm) deep electrical box installation*
- *Available in smooth black, white, almond, gray, or red finish*
- *Matching decorator-style faceplate available separately*
- *Meets UL® 916 standard for energy management equipment*
- *Meets CEC Title 24 energy efficiency standards*[3]
- *Meets ASHRAE® 90.1 energy efficiency standards*[4]
- *ICC® International Energy Conservation Code® compliant*[5]

Model ZUMMESH-KP10B-W-S shown, faceplate sold separately.

The Zūm™ Wireless Keypad (ZUMMESH-KP) provides control of one or more Zūm J-Box Load Controllers (ZUMMESH-JBOX[1]). It is available with either a single rocker switch or four pushbuttons. The rocker switch version offers simple on/off switching and dimming adjustment, with the ability to save one scene preset. The pushbutton version supports the same capabilities with three scene presets. Standard gang-box installation allows one or more units to be installed in a 3-1/2 inch (89 mm) deep electrical box. A finished installation requires a decorator-style faceplate (sold separately).

ZUMMESH-KP keypads are 100-277 Volts AC line powered. Zūm Mesh wireless technology affords easy "pair and play" setup and integration as part of a complete Zūm commercial room lighting system.

Switch and Button Options

There are two versions of the ZUMMESH-KP as follows:

ZUMMESH-KP10A – Provides a single rocker switch for on/off switch control, with the ability to adjust the dim level up or down by pressing and holding the switch. A single custom scene preset can be created, which is recalled when turning the lights on by pressing the up position on the rocker switch.

ZUMMESH-KP10B – Provides four pushbuttons labeled ON, SCENE 2, SCENE 3, and OFF. Three scene presets can be created and recalled, with Scene 1 assigned to the ON button. Manual dimming adjustment is achieved by pressing and holding the ON (up) and OFF (down) buttons.

Pair and Play

Designed with flexibility and ease-of-use in mind, Zūm keypads are pre-programmed with "pair and play" functionality. An installer can simply install the keypad in a room along with Zūm load controllers, occupancy or vacancy sensors, and a daylight sensor, set up the room with a few quick button taps, and then use the keypad 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 centralize monitoring and management via a Zūm Floor Hub and Zūm Net 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 a "routing node," 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 50 feet (15 meters).[2]

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

ZUMMESH-KP Zūm Wireless Keypad

SPECIFICATIONS

Wireless Communications

RF Transceiver: Zūm Mesh 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant
Range: 50 ft (15 m) to nearest peer-to-peer mesh network device(s), subject to site-specific conditions and individual device capabilities [2]

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

Controls & Indicators

Switch (-KP10A models): (1) 3-Position rocker switch (spring return to center); press up to recall the Scene 1 preset (switched loads on and dimmed loads at their saved preset dim levels [default=90%]), press down to turn all lighting loads off, press and hold up or down to raise or lower the dimming level for all dimmable lighting loads; also used for creating a preset, room setup, and factory reset

Buttons (-KP10B models): (4) Pushbuttons as follows:

- **ON:** Press to recall the Scene 1 preset (switched loads on and dimmed loads at their saved preset dim levels [default=90%]), press and hold to raise the dimming level for all dimmable lighting loads
- **SCENE 2:** Press to recall the Scene 2 preset (switched loads on and dimmed loads at their saved preset dim levels [default=50%]), press and hold to save a new Scene 2 preset
- **SCENE 3:** Press to recall the Scene 3 preset (switched loads on and dimmed loads at their saved preset dim levels [default=10%]), press and hold to save a new Scene 3 preset
- **OFF:** Press to turn all loads off, press and hold to lower the dimming level for all dimmable lighting loads

Buttons are also used for creating presets, room setup, and factory reset

Feedback: (1) Green LED, indicates a button press; also used for creating presets, 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 lead, white, neutral
Ground: (1) 16 AWG Class 1 flying lead, green, ground

Power

Line Power: 100-277 Volts AC, 50/60 Hz

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)

Compliance

UL Listed for US & Canada, IC, FCC Part 15 Class A digital device, UL 916, CEC Title 24 [3], ASHRAE 90.1 [4], IECC [5]

MODELS & ACCESSORIES

Available Models

ZUMMESH-KP10A-A-S: Zūm Wireless Keypad, Rocker Switch, 100-277V, Almond Smooth
ZUMMESH-KP10A-B-S: Zūm Wireless Keypad, Rocker Switch, 100-277V, Black Smooth
ZUMMESH-KP10A-GRY-S: Zūm Wireless Keypad, Rocker Switch, 100-277V, Gray Smooth
ZUMMESH-KP10A-RED-S: Zūm Wireless Keypad, Rocker Switch, 100-277V, Red Smooth
ZUMMESH-KP10A-W-S: Zūm Wireless Keypad, Rocker Switch, 100-277V, White Smooth
ZUMMESH-KP10B-A-S: Zūm Wireless Keypad, 4-Button, 100-277V, Almond Smooth
ZUMMESH-KP10B-B-S: Zūm Wireless Keypad, 4-Button, 100-277V, Black Smooth
ZUMMESH-KP10B-GRY-S: Zūm Wireless Keypad, 4-Button, 100-277V, Gray Smooth
ZUMMESH-KP10B-RED-S: Zūm Wireless Keypad, 4-Button, 100-277V, Red Smooth
ZUMMESH-KP10B-W-S: Zūm Wireless Keypad, 4-Button, 100-277V, White Smooth

Available Accessories

FP-G Series: Decorator-Style Faceplate
ZUMMESH-JBOX-5A-LV: Zūm J-Box Load Controller, 0-10V Dimmer, 5A, 100-277V
ZUMMESH-JBOX-16A-LV: Zūm J-Box Load Controller, 0-10V Dimmer, 16A, 100-277V
ZUMMESH-JBOX-20A-SW: Zūm J-Box Load Controller, High Inrush Switch, 16A, 100-277V
ZUMMESH-JBOX-20A-PLUG: Zūm J-Box Load Controller, Plug Load Switch, 20A, 100-277V

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Notes:

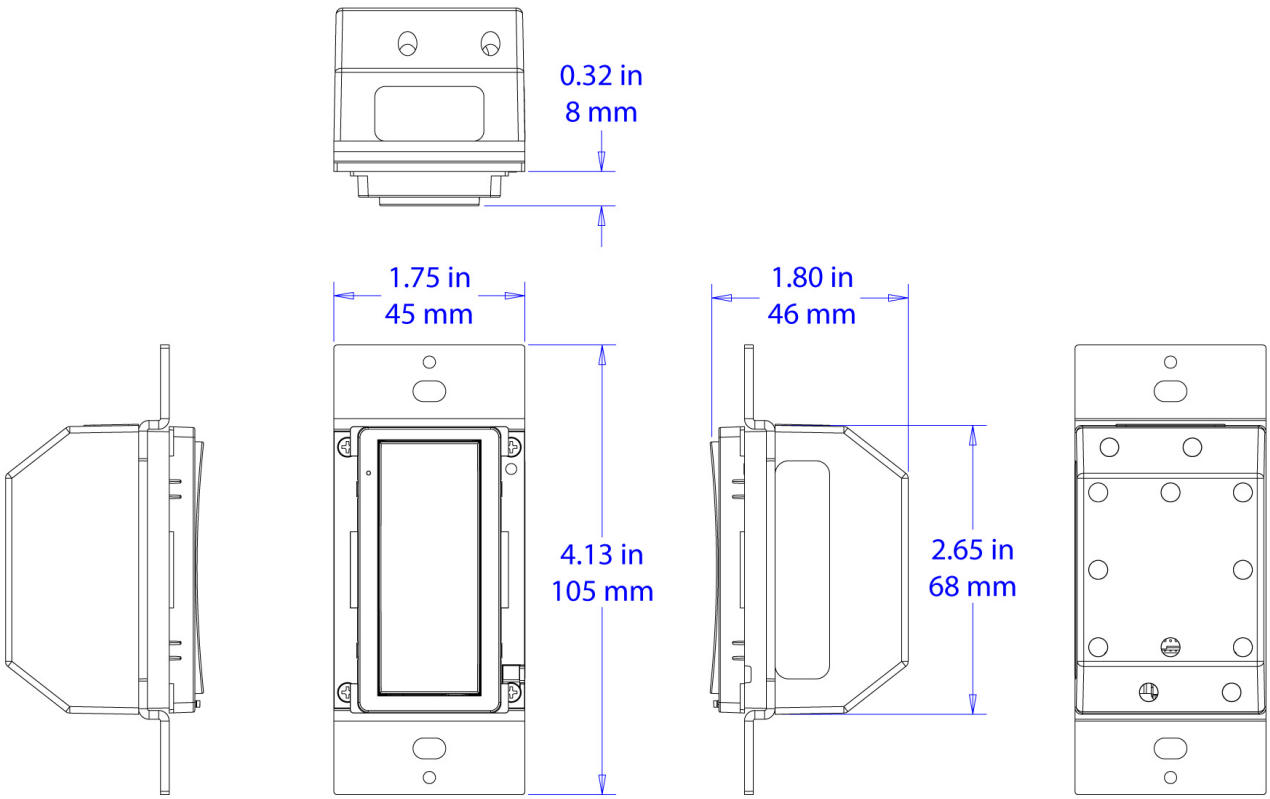
1. Item(s) sold separately. Refer to each product's spec sheet for more information.
2. "Zūm Mesh" refers to the peer-to-peer wireless mesh network within a room composed of dimmers, switches, load controllers, keypads, and sensors. AC-powered Zūm Mesh devices function as routing nodes, which effectively extend the range of the wireless network within the room. Battery-powered devices only function as leaf nodes and do not extend range. Networks composed predominantly of battery-powered devices may require additional AC-powered devices, such as the ZUMMESH-JBOX-PSU, to serve as supplemental routing nodes to fill any gaps in coverage. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide (Doc #6689) for additional guidelines.
3. This product is part of a California Energy Commission Title 24 compliant solution. Refer to http://www.energy.ca.gov/title24/ to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at http://www.crestron.com/about/partner-info/commercial-lighting-consultants.
4. This product is part of an ASHRAE 90.1 compliant solution. Refer to https://www.ashrae.org/ to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at http://www.crestron.com/about/partner-info/commercial-lighting-consultants.
5. This product is part of an International Energy Conservation Code compliant solution. Refer to https://www.iccsafe.org/iecc/ to learn more about designing a fully compliant solution. Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at http://www.crestron.com/about/partner-info/commercial-lighting-consultants.

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.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at http://www.crestron.com/about/partner-info/commercial-lighting-consultants. For assistance with incorporating this product into a design or specification, please contact the Commercial Lighting Consultant Hotline via email 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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