

Zūm™ Wireless Partition Sensor

- > Enables room combining for Zūm™ commercial lighting applications
- > Detects when a movable room partition is opened or closed
- > Automatically links two adjoining room lighting systems to function as one
- > Diffuse reflective infrared technology affords reliable sensing in one compact device
- > Ceiling or wall mountable
- > Installs in a single-gang US electrical box
- > Surface mountable over a small hole
- > 24 Volt DC powered
- > Simple pair and play setup
- > Zūm Mesh peer-to-peer RF communications
- > White finish
- > Decorator-style faceplate sold separately

For divisible rooms and combinable spaces separated by a movable partition, the Zūm™ Wireless Partition Sensor (ZUMMESH-PART) detects when the partition is opened and automatically links the [Zūm lighting systems](#) in each room together to function as one space. A single partition sensor installs on the ceiling or wall, positioned so that it faces the partition. An infrared light beam is directed at the partition surface so that its reflection is detected when the partition is closed. When the partition is opened, the partition sensor shares the scene preset button presses and occupancy status between the two rooms, effectively bridging them together to operate as one large room.

The ZUMMESH-PART is ideal for combining two rooms with similar lighting components and functionality. When combined, selecting a scene preset in either room activates the same scene preset in the other room. Any occupancy or vacancy sensors in both rooms also work in unison to control both rooms as one.

Note: Combinable rooms equipped with motion sensors must have the same sensor type in both rooms, either [occupancy](#) or [vacancy](#). Daylighting functionality remains independent for each room equipped with a [daylight sensor](#) (photocell). Refer to the Specifications section for additional restrictions.

The ZUMMESH-PART can be installed in a 1-gang US electrical box or attached directly to a flat surface over a small hole. It is supplied with two brackets, one for semi-recessed installation in an electrical box, and one for surface mounting over an electrical box or a ~3/4 inch (~19 mm) round hole. The complete installation requires a decorator style faceplate for a finished appearance (Crestron [FP-1G series](#), sold separately).

The ZUMMESH-PART is ideally designed for ceiling mount applications with the sensor positioned 2 feet (61 cm) from the partition. If necessary, it may be positioned as near as 6 inches (16 cm) or as far as 6 feet (182 cm), provided the partition appears within the sensor's 15° vertical sensing angle. The sensor may be wall mounted if the application cannot accommodate ceiling mounting. Three sensitivity settings are selectable to fine-tune the sensor for varying applications.



The ZUMMESH-PART requires 24 Volts DC power, which may be supplied by a [ZUMMESH-JBOX-SIM](#), [PW-2407RU](#), or other 24 VDC power source (all sold separately).

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

SPECIFICATIONS

Sensing

Sensor Technology: Diffuse reflective

Light Source: Pulse modulated infrared LED

Sensing Distance: 2 ft (61 cm) optimal, 0.5 to 6 ft (16 to 182 cm) allowable

Sensing Angle: 15° downward when ceiling mounted

Sensitivity Adjustment: Low, Medium (default), High

Wireless Communications

RF Transceiver (x2): Zūm Mesh 2-way RF, 2.4 GHz ISM Channels 15, 20, 25, or 26 (channel auto-selected), IEEE 802.15.4 compliant, AES-128 encryption

Range: 50 ft (15 m) to nearest peer-to-peer mesh network devices, subject to site-specific conditions and individual device capabilities

Note: The partition sensor communicates independently with each of two room networks and shares scene preset button presses and occupancy/vacancy status between each room when the rooms are combined (partition opened). Combined rooms must use the same type of motion sensors ([occupancy](#) or [vacancy](#)) and should be configured with similar scene presets for optimal results when combined. Photocell daylighting logic is not shared between rooms.

Note: A maximum of one partition sensor is permitted between any two combinable rooms. Multiple partition sensors may be used in a room that is combinable with more than one other room (one sensor per partition). Each partition sensor reduces by one the maximum number of motion sensors permitted in each room (a room with one partition sensor is limited to seven motion sensors, etc.).

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Note: Partition status is not reported to a control system via an AV Bridge (ZUMMESH-AVBRIDGE).

Controls & Indicators

PART: (1) Green LED, indicates partition closed status and sensitivity setting

RM A: (1) Red LED, indicates room A status and operation

RM B: (1) Red LED, indicates room B status and operation

+/A: (1) Pushbutton for sensitivity adjustment, room A setup, room A test, and factory reset

-/B: (1) Pushbutton for sensitivity adjustment, room B setup, room B test, and factory reset

Connections

24V/G: (1) 2-pin 3.5 mm detachable terminal block;

24 Volt DC power input;

Wire Size: 26 to 14 AWG (0.14 to 2.5 mm²)

Power

42 mA @ 24 Volts DC;

Requires a [ZUMMESH-JBOX-SIM](#), [PW-2407RU](#), or other 24 VDC power source

Environmental

Temperature: 32° to 113° F (0° to 45° C)

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

Construction

Composition: White plastic with metal bracket

Mounting: Mounts in a 1-gang US electrical box (not included) or attaches to a flat surface over a ~3/4 inch (~19 mm) round hole; includes brackets for both recess and surface mounting (both are 1-gang compatible); mounting surface should be free from vibrations

Faceplate: Requires a single-gang decorator-style faceplate ([FP-G1 series](#), sold separately)

Dimensions

Height: 2.23 in (57 mm)

Width: 4.16 in (106 mm)

Depth: 1.35 in (35 mm)

Projects 1.61 inches (41 mm) using the recess mount bracket, or 2.23 inches (57 mm) using the surface mount bracket.

Weight

3.32 oz (94 g)

Compliance

CE, IC, FCC Part 15 Class B digital device



ZUMMESH-PART Zūm™ Wireless Partition Sensor

MODELS & ACCESSORIES

Available Models

ZUMMESH-PART: Zūm Wireless Partition Sensor

Available Accessories

FP-G1 Series: Decorator Style Faceplates, 1-Gang

ZUMMESH-JBOX-SIM: Zūm J-Box Sensor Integration Module

PW-2407RU: 18 Watt Cresnet® Power Supply, Desktop, 24VDC, 0.7A (18 Watts), Regulated, US/International

Notes:

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 <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

Additional resources can be accessed via the Crestron Commercial Lighting Consultants Partner Portal at <https://www.crestron.com/en-US/Partners/Partnership-Programs/Portal-Pages/Lighting-Consultants-Portal>. 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 this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

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