# ZUMMESH-OL-PHOTOCELL-BATT

Zūm™

## Zūm™ Wireless Battery-Powered Daylight Sensor, Open-Loop

- *Zūm™ wireless open-loop daylight sensor*
- *Monitors natural daylight levels from windows in a room*
- *Enables daylight harvesting for a Zūm commercial room lighting system*
- *Automates control of Zūm dimmers and load controllers to reduce energy usage [1]*
- *Maintains consistent lighting levels for a more comfortable workspace*
- *Easy setup and calibration with the press of a button*
- *Operates for ten years on two lithium batteries (included)*
- *Zūm Mesh peer-to-peer RF communications for easy integration into a complete standalone or networked Zūm wireless lighting control solution [2]*
- *Sleek, compact ceiling surface mount design*
- *Mounting base allows ±20° rotation for easy positioning*
- *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]*

The Zūm™ Wireless Battery-Powered Daylight Sensor (ZUMMESH-OL-PHOTOCELL-BATT) is an open-loop photocell designed to provide superior monitoring of natural daylight levels from windows in a room. It communicates wirelessly with Zūm dimmers and load controllers to automatically adjust their dimming levels according to the amount of natural daylight in the room.[1]

In a process known as "daylight harvesting," a single daylight sensor can control multiple dimming zones arranged in relationship to the windows, adjusting each zone to maintain a consistent lighting level throughout the room. By taking advantage of natural sunlight, daylight harvesting effectively reduces energy usage while providing a more comfortable workspace.

The ZUMMESH-OL-PHOTOCELL-BATT is battery powered and completely wireless. It operates for up to ten years or more on two AAA lithium batteries (included). Zūm Mesh wireless technology affords easy "pair and play" setup and integration as part of a complete Zūm commercial room lighting system.[2]

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

## SPECIFICATIONS

### Sensing

**Light Sensitivity:** 0 to 65535 lux (0 to 6089 foot-candles)
**Sensing Angle & Distance:** 35° optimum sensing angle at 4 to 6 feet (1.22 to 1.83 meters) from window

*Note: Only one daylight sensor is permitted per room.*

### 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

(1) Pushbutton and (1) bi-color red/green LED for sensor calibration, test mode, room setup, and factory reset

### Power

**Battery:** (2) AAA 1.5 Volt lithium disposable batteries (included)
**Battery Life:** 10 years under normal operating conditions

### Environmental

**Temperature:** 32° to 104° F (0° to 40° C)
**Humidity:** 0% to 95% RH (non-condensing)

### Construction

**Housing:** Plastic, white textured finish
**Mounting:** Drop tile or drywall ceiling surface mount using hardware provided, mounting base allows ±20° rotation

### Dimensions

**Height:** 0.98 in (25 mm)
**Diameter:** 2.77 in (71 mm)

### Weight

1.2 oz (34 g)

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## Compliance

CE, 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-OL-PHOTOCELL-BATT:** Zūm Wireless Battery-Powered Daylight Sensor, Open-Loop

### Available Accessories

**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-5A-LV:** Zūm Wireless 0-10V Wall-Box Dimmer, 5A, 100-277V

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. The ZUMMESH-OL-PHOTOCELL-BATT and other 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.

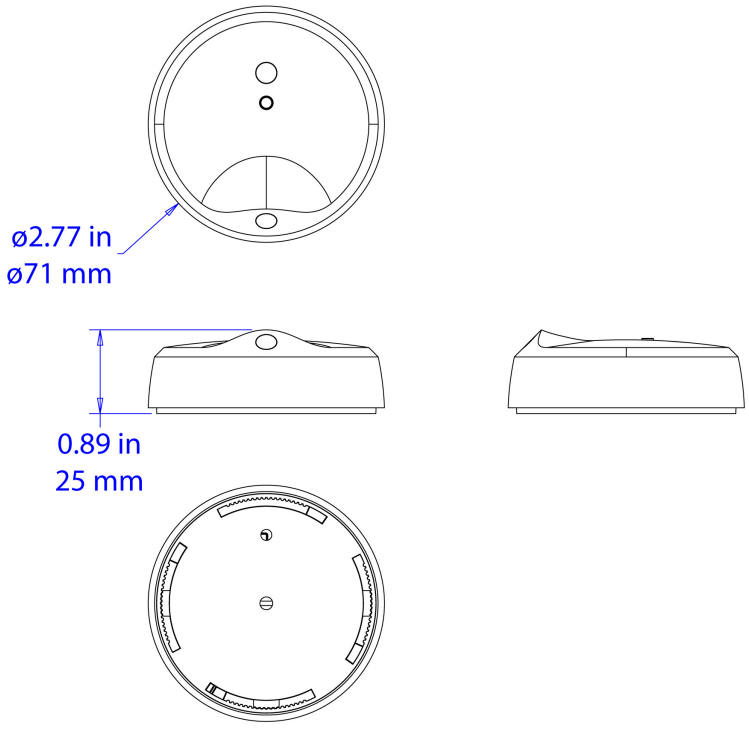
This product may be purchased from an authorized Crestron dealer or distributor. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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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