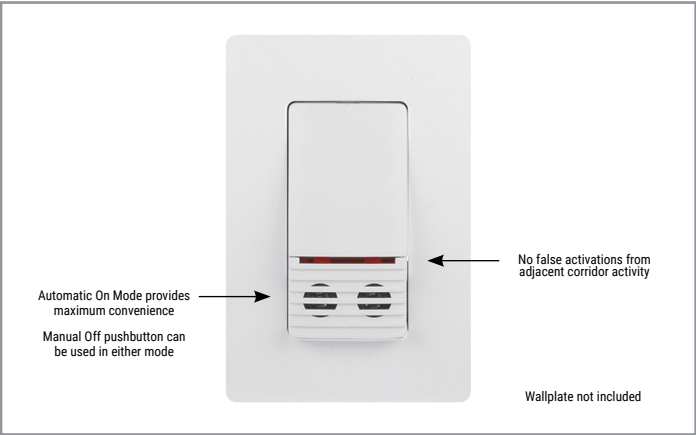


Project		Catalog #		Type	
Prepared by		Notes		Date	



Greengate

OSW-U Wall Switch Ultrasonic Occupancy Sensor (120/277V)

The self-contained OSW-U-0721-MV is an energy-saving, motion sensing ighting control that replaces a conventional wall switch and utilizes ultrasonic technology to detect room motion.

Typical Applications
Offices • Conference rooms • Board rooms • Utility rooms

Product Certification



Product Features

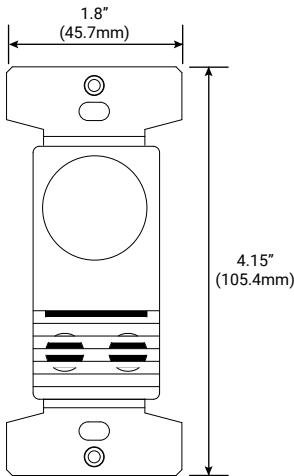


- Interactive Menu**
 - Order Information page 2
 - Additional Resources page 3
 - Wiring Diagrams page 3
 - Product Warranty

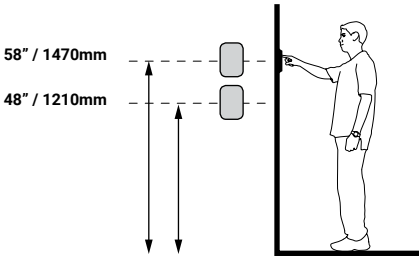
Top Product Features

- 120 and 277V in the same unit
- No minimum load requirement
- Air-gap switch ensures no leakage current to load
- Complete no gap coverage
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- Wall switches are ideal for smaller spaces where you will not have obstructions of line-of-sight due to switch location, room orientation or furniture placement

Dimensional Details



Mounting Height



additional product diagrams

Order Information

Wallplate not included

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
OSW-U-0721-MV- * (*-W, V, A)	Incandescent: 0-800W @ 120V Fluorescent: 0-800W @ 120V Fluorescent: 0-1200W @ 277V Max Load/Relay	180°; 500 sq. ft.	120/277 VAC 60 Hz	W=White, V=Ivory, A=Almond
				Notes Not all colors are available in stock and some color options may have extended lead times.

Product Specifications

Technology

- Ultrasonic (US)

Mechanical

Mounting Plate Dimensions: 4.15"H x 1.94"W (10.54cm x 4.92cm)

Product Housing Dimensions: 2.73"H x 1.8"W x 1.8"D (6.93cm x 4.57cm x 4.57cm)

Environment:

- Operating temperature:** 60° F - 80°F (15°C - 26°C)
- Relative humidity operating:** Less than 95%, non-condensing
- For indoor use only

Housing: Durable, injection molded housing. ABS resin complies with UL 94V-0

Mounting: Fits in a standard 3.5" deep back box

Electrical

Electrical ratings:

- 120 VAC:
 - Incandescent/Tungsten
 - Max. load: 6.7 amps, 800W, 60 Hz
 - Motor Load: 1/4HP @ 125 VAC
- 277 VAC:
 - Fluorescent/Magnetic Ballast –
 - Max. load: 4.3 amps, 1200W, 60 Hz
 - Motor Load: 1/4HP @ 125 VAC

Ballast Compatibility:

- Compatible with magnetic ballasts

Hardware Specifications

Status Indicators: Red LED for Ultrasonic detection

Controls and Performance

Time delays:

- 15 seconds to 15 minutes

Operating modes:

- Automatic On/Automatic Off
- Manual On/Automatic Off

Shut off delay:

- Adjustable 30 sec. - 15 min.

Standards/Ratings

- cULus Listed

Warning

- This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Warranty

Five year warranty standard

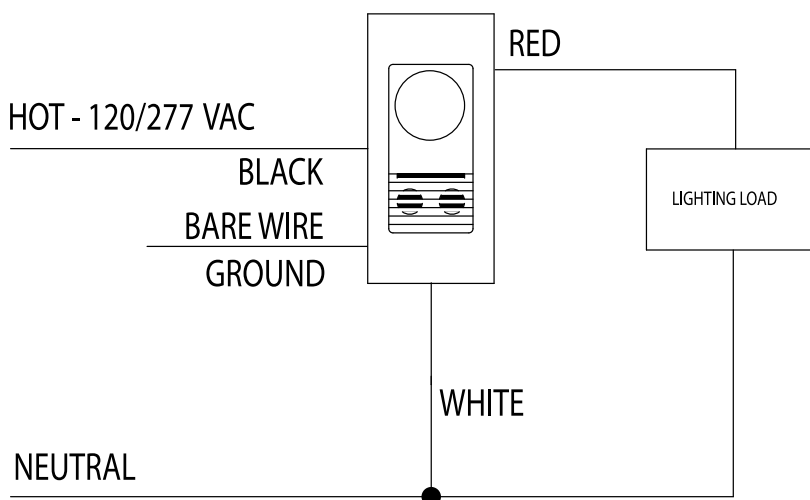
Overview

The sensor produces a low-intensity, inaudible sound to detect occupancy in a room. Changes in the sensor's acoustic wave caused by motion, such as walking into a room, reaching for a telephone or swiveling in a chair, will cause the lights to turn ON. The sensor does not respond to audible sound. In the Automatic On Mode, lights will turn ON automatically when a person enters the room. In Manual On Mode, lights are turned ON by pressing the touchplate at the top of the switch. When the room is vacated, lights turn OFF automatically after the programmed time delay. An air-gap switch ensures no leakage current to load for maximum product reliability

Wiring Diagrams

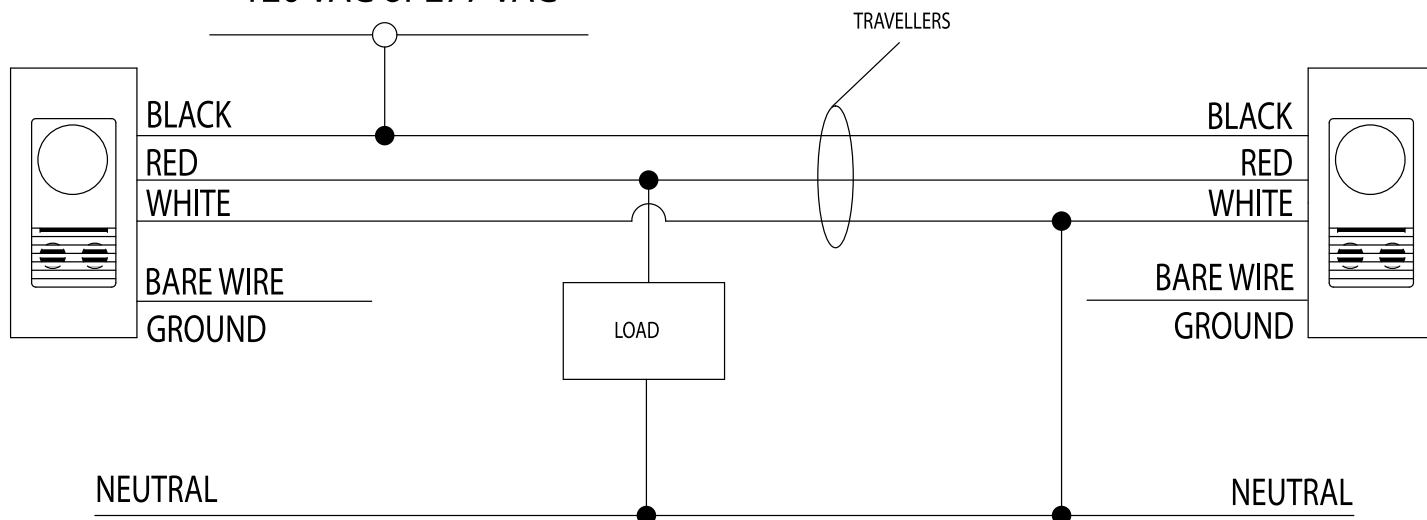
Single-Pole Wiring Diagram FLR, LED

Single level switching



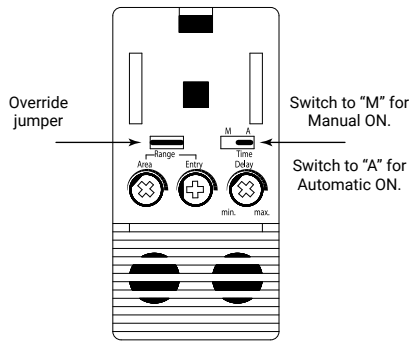
3-Way Wiring Diagram FLR, LED

120 VAC or 277 VAC



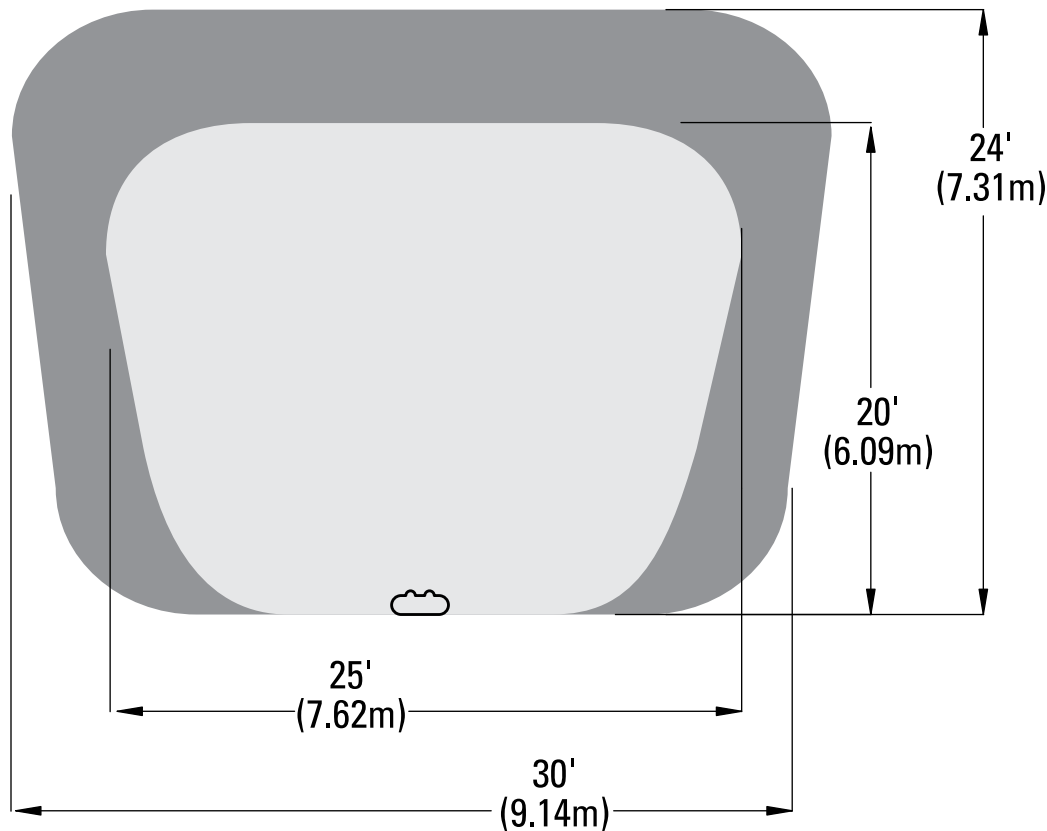
For 3-way applications Do Not exceed the load ratings of a single switch.
Load rating can not be doubled!

Controls



Field of View

The OSW-U-0721 series has a coverage range of 180°, a minor motion coverage area of approximately 300 sq. ft., and a maximum coverage area of approximately 500 sq. ft. Maximum coverage area may vary somewhat according to room shape and the presence of obstructions.



Control Systems

- Greengate



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- **Never spray any fluids directly into the device.**
- **Use of ammonia-based or VOC cleaners on this device must be avoided.** Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- **Use a damp rag or single-use wipe** to avoid excess liquid penetrating the device.
- Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found in household cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes **cannot contain bleach, ammonia, highly alkaline or concentrated acids.**

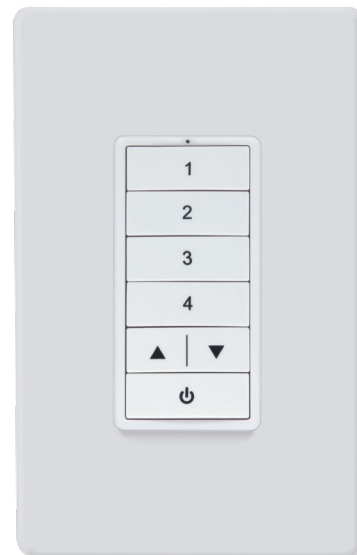


image for
reference only



WARNING

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- **Never spray any fluids directly into the device.**
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- Remove an excess liquid remaining on the device with a dry cloth or paper towel.