Greengate

OMC-U, MicroSet Ultrasonic

Ultrasonic Activated | MicroSet | California Title 24 Compliant

- **No adjustment necessary at installation**
- **Continuous, real-time, self-adjusting sensitivity and time delay**
- **Complete no-gap coverage**
- **Ideal for spaces needing increased sensitivity to minor motion detection**
- **Multiple frequencies enable separate controls of adjacent areas**
- **Manual ON/OFF feature when wired to a normally open momentary pushbutton (Greengate Model# AML Switch)**
- **NEMA WD7 Guide robotic method utilized to varify coverage pattern**

Specifications:

Technology: Ultrasonic (US)
Power Requirements: 10-30 VDC from Greengate Switchpack or Greengate system. Maximum current needed is 25mA per sensor.
Output:
- Open collector output to switch up to ten Greengate Switchpacks.
- Isolated Form C Relay in (-R) models.
- Isolated Form C Relay Ratings: 1A 30 VDC/VAC

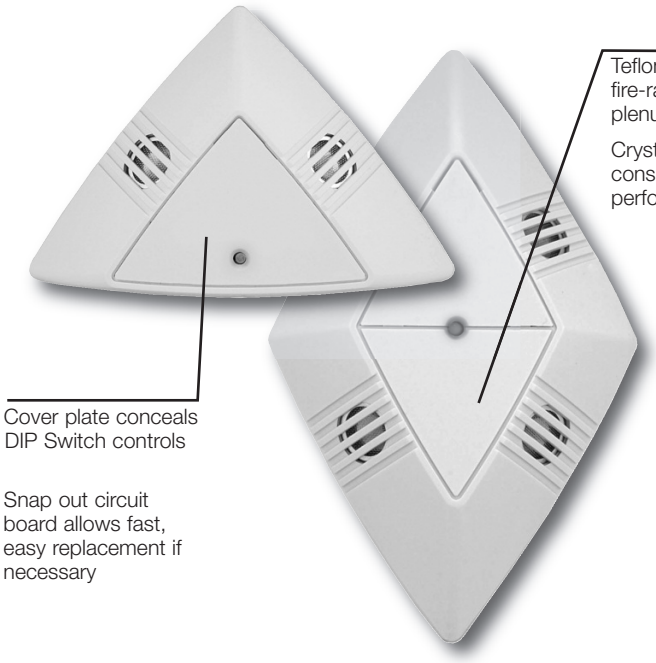
Time Delays: Self-adjustable from 10 min. to 30 min.
Operating Environment:
- Temperature: 60°F - 80°F (15°C - 26°C)
- Relative humidity: Less than 95%, non-condensing
- For indoor use only

Housing: Medium impact injection molded housing. ABS resin complies with UL 94V0. Paintable off-white.
Size:
- OMC-U-1001, OMC-U-0501: 3-1/4"D x 4-3/4"W x 1"H (82.6mm x 110.2mm x 25.4mm)
- OMC-U-2000: 3-3/4"D x 6"W x 1"H (95.25mm x 152.4mm x 25.4mm)

*All BAS models are the same size.
LED lamp: Amber LED: OMC-U-0501 only
Blue LED: All other sensors
Wireguard: ACWG-D1 (OMC-U-0501, OMC-U-1001)
ACWG-D2 (OMC-U-2000)
Warranty: Five year

UL Listed

Catalog #	Type
Project	
Comments	
Prepared by	Date



Overview

The MicroSet Ultrasonic sensors automatically control lighting and other electrical loads based on the presence (or absence) of people. The sensors produce a low-intensity, inaudible sound that detects changes in acoustic waves caused by motion such as walking into a room, reaching for a telephone or turning a swivel chair. The sensors do not respond to audible sound. When motion is detected, the relay in the connected Greengate Switchpack is closed and lights are turned ON. If no motion occurs within a pre-set period of time, lights are turned OFF.

The NEMA WD7 Guide robotic method was utilized to verify coverage patterns. Manual override switch turns lights ON in case of sensor malfunction.

Operation

The revolutionary MicroSet breakthrough technology accurately ignores sources of continuous noise by self-adjusting which creates the first truly "wire and walk away" occupancy sensor. Its wide selection of interface options allows connection to virtually any Building Automation System for additional installation savings. MicroSet adaptive technology eliminates the need for adjustments and time delays.

Application

conference rooms	corridors	storage areas
public areas	restrooms	partitioned work areas
large open spaces		

Ordering

Catalog #	Recommended Room Size	Field of View	Features
OMC-U-0501	Up to 500 sq.ft.	One Way (180°)	
OMC-U-0501-R	Up to 500 sq.ft.	One Way (180°)	w/BAS Relay
OMC-U-1001	500 - 1,000 sq.ft.	One Way (180°)	
OMC-U-1001-R	500 - 1,000 sq.ft.	One Way (180°)	w/BAS Relay
OMC-U-2000	1,000 - 2,000 sq.ft.	Two Way (360°)	
OMC-U-2000-R	1,000 - 2,000 sq.ft.	Two Way (360°)	w/BAS Relay

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COOPER Controls

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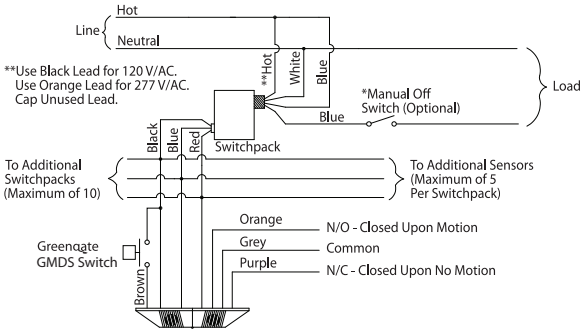
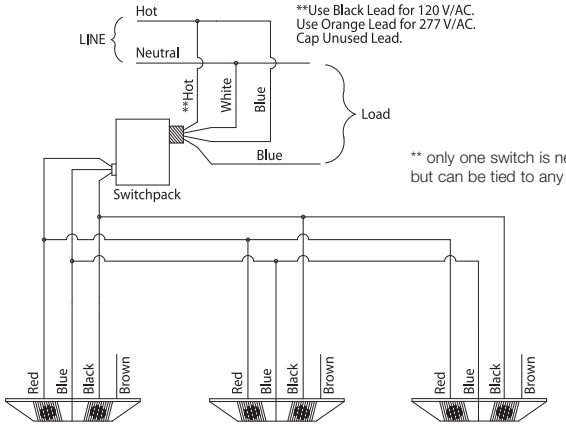
Wiring Diagrams

One Switchpack, One Sensor (-R Model)

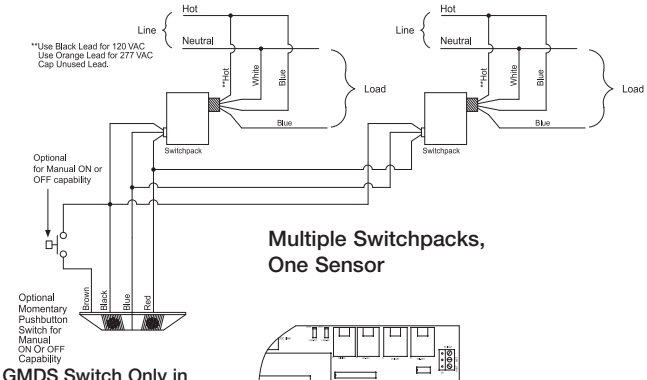


(Use GMDS Switch Only in Single Sensor Applications)

One Switchpack, Multiple Sensors

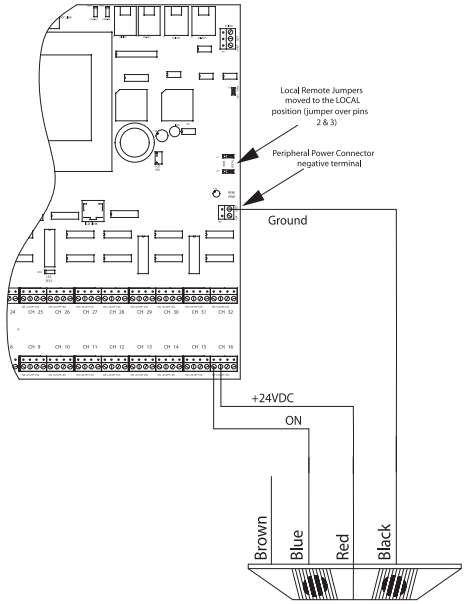


** only one switch is necessary, but can be tied to any sensor.



Multiple Switchpacks, One Sensor

(Use GMDS Switch Only in Single Sensor Applications)

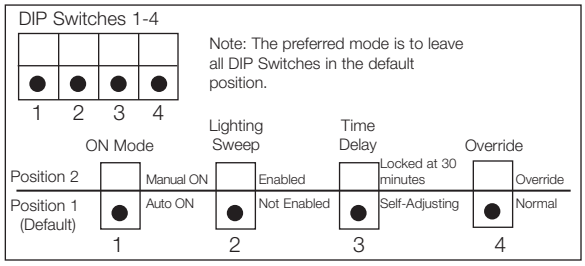


Coverage

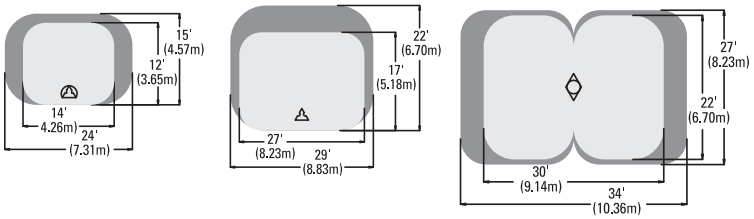
Minor Coverage
Major Coverage

All coverage patterns verified using NEMA WD-7 testing guidelines. Dimensions are in feet (meters). Products tested are 10' (3.048m) height.

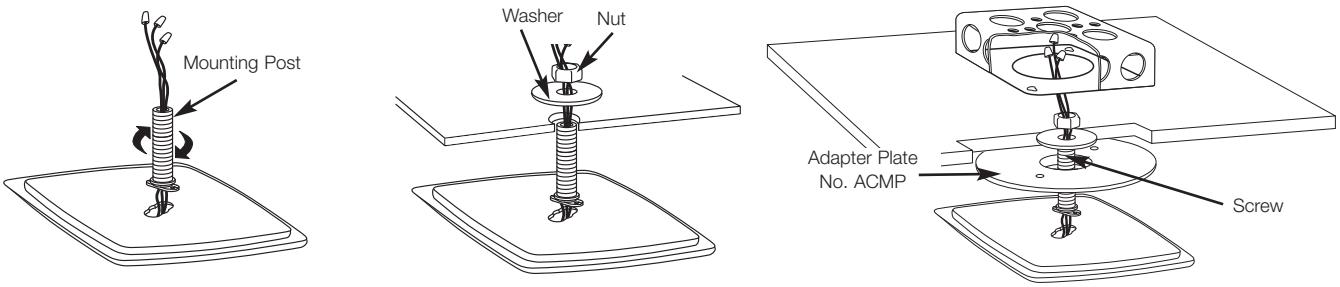
Maximum Mounting Height - 12ft.



Up to 500 sq. ft.	500 to 1,000 sq. ft.	1,000 to 2,000 sq. ft.
OMC-U-0501 OMC-U-0501-R	OMC-U-1001 OMC-U-1001-R	OMC-U-2000 OMC-U-2000-R



Mounting



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