CROWNLITE MFG. CORP.

1546 Ocean Ave., Bohemia, LI, NY
631.589.9100, fx 631.589.4584, info@crownlite.com

Series (M)255OS Adjustment Instructions

Caution: These fixtures are shipped factory pre-configured. Read these instructions carefully before considering reconfiguring the sensor system!

COVERAGE PATTERN

The coverage pattern is determined by sensor model, mounting height and the angle of the sensor, relative to the coverage area floor.

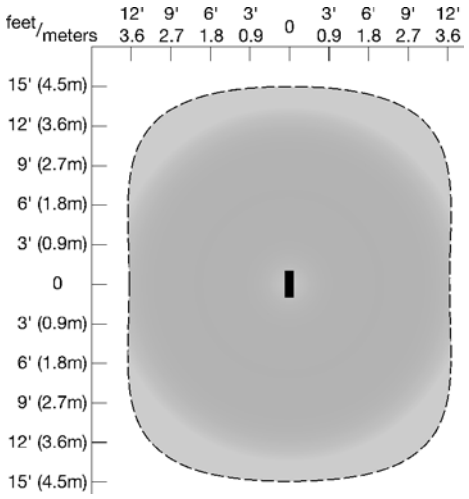
The coverage shown represents full-step walking motion in a carpeted area, with no barriers or obstacles at a mounting height of 8 to 10 feet. Mounting above or below this range significantly affects coverage patterns.

Obstacles such as furniture or partitions, wall, ceiling and floor treatments can cause the coverage area to be less or more than the sensing distances shown in the coverage pattern. This must

be considered when planning the number of sensors and their placement.

Place sensors at least 4 feet away from air supply ducts.

For complete coverage in open areas, install multiple sensors to provide a 20% overlap with each adjacent sensor's coverage area.



sensor mounted 8' high, parallel to floor

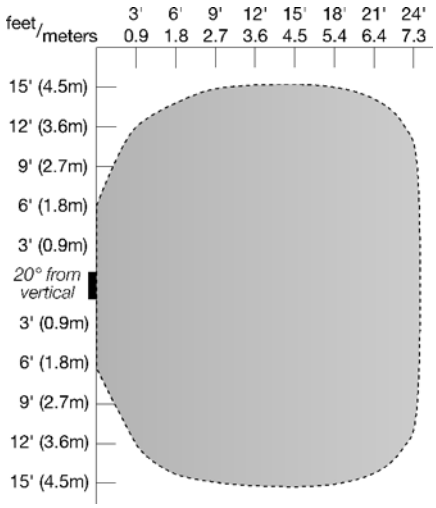


Fig 9: Top view, coverage pattern, sensor mounted 20° from vertical

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WARNING

DO NOT OVERTURN TRIMPOT WHEN ADJUSTING THE SENSOR.

SENSOR ADJUSTMENT

Before making adjustments, install furniture, turn lighting circuits on, and set HVAC systems to the overridden/on position. VAV systems should be set to their highest airflow. Set the Time Delay to the desired settings. See "Time Delay Switches" on the next page.

To Test Occupancy Sensors

1. Set the Sensitivity adjustment to about mid-range.
2. Activate the Test Mode using the test mode button.
3. Move out of the controlled area – the lights will turn off in about 5 seconds from the last flash of the LED.* If the LED continues to flash, the sensor is detecting some kind of movement. Change the sensitivity adjustment to a lower setting (a few degrees counterclockwise) and repeat this step until the LED does not flash and the lights turn off.

* If Reverse-Occupancy is enabled (the lighting load is wired to a normally closed contact and the sensor's Occupancy Mode Switch is ON), operation of the load is also reversed during Test mode. For example, at this stage of testing, the lights will turn ON in about 5 seconds from the last flash of the LED. See Occupancy Mode Switch for more information.

4. Walk into the controlled area. If the lights don't turn on, increase the sensitivity (a few degrees clockwise) and try again. Repeat this procedure until the LED does not flash and the lights turn off. If the lights turn off while the room is occupied, it may be necessary to increase the sensitivity.
5. Allow the test period to expire or push the test button again. The sensor will now be in its operating mode.

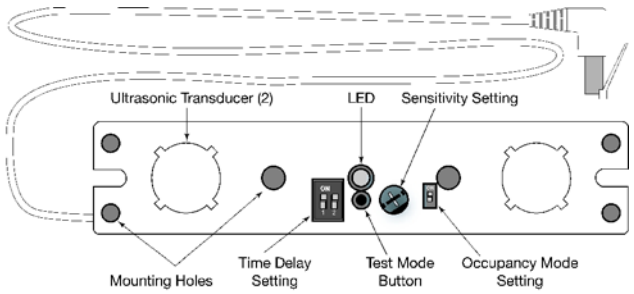

Fig 10: Adjustment features

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LED

The LED flashes every time the sensor detects motion. The LED is also used to indicate other sensor status such as test mode, lamp burn-in, and override. When the LED flashes at a constant rate of one second on then one second off, the sensor is in the burn-in mode. When the sensor is in test mode the LED flashes to indicate occupancy detections. When the sensor is in override mode the LED glows steady.

TIME DELAY SWITCHES

The sensor will hold the lights on as long as occupancy is detected. The time delay countdown starts when no motion is detected. After no motion is detected for the length of the time delay, the sensor will turn the lights off.

TEST MODE BUTTON

This button is used to select the operating mode for the FS-505.

- A momentary press invokes the Test Mode.
- Press and hold for 5 seconds to invoke the lamp Burn-In mode.
- Press and hold for 10 seconds to Override the sensor output.

The LED lights to indicate how long the button is held. Initially the LED is cleared when the button is pressed. After 5 seconds it will turn on, and after 10 seconds cleared again.

Test Mode

The purpose of the test mode is to be able to quickly determine the coverage area of the sensor without waiting for a lengthy time delay. Test Mode is a temporary state that provides a 5 minute test period. During the test period, the Time Delay is only 5 seconds. After 5 minutes the sensor returns to the time delay set on the Time Delay switches. To exit from the Test Mode push the button again or wait for it to time out.

Override

To override sensor functions so that the load stays on, push and hold the button for 10 seconds. Depending on the setting of the Occupancy Mode switch, the output could be overridden ON or OFF. The LED is ON in a steady state when the sensor is in the override mode. When in override, the lights can be manually controlled with a light switch, if one is installed. To turn off the override mode, momentarily push the button again.

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Burn-In

Some lamp and ballast manufacturers recommend running lamps at full output for their first 72 hours of operation. The burn-in function initiates a 72- hour burn-in period. To start the burn-in process, push and hold the button for 5 seconds. The lamps will stay on for 72 hours continuously regardless of occupancy status. After 72 hours, the sensor returns to normal function. To indicate the sensor is in burn-in mode, the LED flashes rapidly and continuously for the full 72 hours. To turn off the burn-in mode, momentarily push the button again.

OCCUPANCY MODE SWITCH

When the sensor is used with a power pack incorporating a normally closed relay, the Occupancy Mode Switch can be set for fail-ON functionality, or reverse-occupancy operation. To use the normally closed relay
wire the lighting load to the NC and COM terminals as shown in Figure 11.

Fail-ON Functionality

To enable fail-ON functionality, set the Occupancy Mode Switch to OFF and wire the load as shown in Figure 11. In this configuration the sensor works normally, meaning that it turns on the lights when there is occupancy, and turns off the lights when the Time Delay expires. Should the sensor be
disconnected or fail, the lights turn on.

Reverse-Occupancy Functionality

If the swtich is set to ON in the N/C wiring configuration, the operation will be reversed. The lights turn on when there is no occupancy and turn off when there is occupancy. However, if the sensor is removed or fails, the lights will turn on due to the kickback circuitry

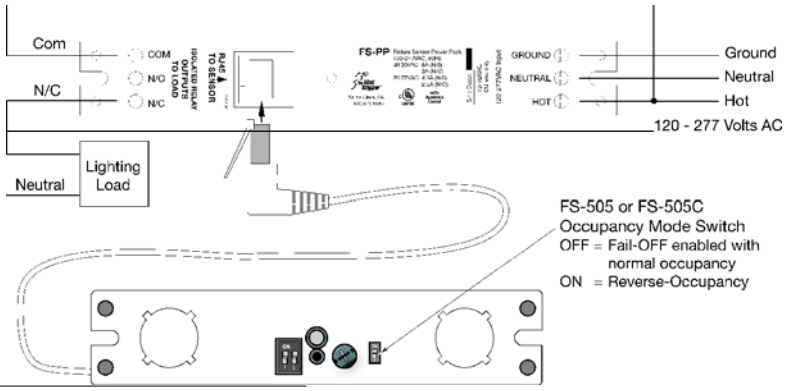

Fig 11: N/C contact wiring for Fail-ON or Reve r s e - O c c u p a n cy mode.

WARRANTY INFORMATION

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