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Installation Instructions

LED Stairwell Fixture (SWHU1)

Instruction Number: P-INT-X-342

Use this instruction to install the LED stairwell fixture in the field.

Components

1 Stairwell Fixture

Tools Required for Installation

-Philips Screwdriver
-Caulk
-4 screws (self provided)
-Pliers

Step-by-Step Instructions

WARNING!
Risk of fire or electric shock. To reduce risk of electrical shock, turn off power supply before installation or servicing.

⚠ ELECTRICAL HAZARD

1. Field installers are responsible for recognizing specific site requirements and making adjustments to assure a complete, functional installation.

2. Make all power connections using UL listed components.

3. Electrical connections must be made by a qualified electrician and in accordance with NEC and local codes.

1 Remove diffuser lens by removing the screw on left and right fixture end caps. (See Fig. 1 and Fig. 2)

2 Once lens is removed, unscrew both ends of LED board and remove from fixture housing by disconnecting electrical connections. (See Fig. 3 and Fig. 4)

3 Use pliers to remove desired knockout in fixture pan to thread incoming power through. Insert grommet and secure in place.(See Fig. 5 and Fig. 6)
NOTE: Ensure when installing fixture, sensor is pointing towards entrances or where movement should trigger fixture to turn on.

4 Thread incoming power supply through grommet. Level fixture housing and screw each end of pan securely in place (4 screws total). (See Fig. 7)
NOTE: Ensure fixture sensor is on bottom side of fixture and has 4' clearance. Sensor should also be at least 4' away from air supply ducts.

5 Complete all electrical connections per NEC and local codes on fixture from incoming power supply and fixture housing. Reattach housing and LED board with screws removed in Step 2. (See Fig. 8 and Fig. 9)

6 Replace the diffuser lens and end caps with screws removed in Step 1. Restore power and test fixture. (See Fig. 10)
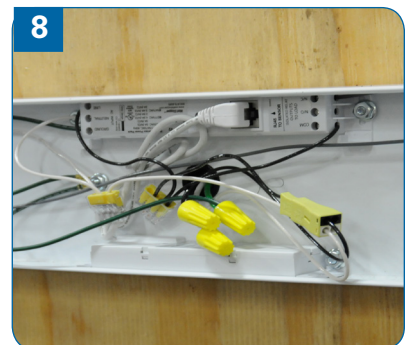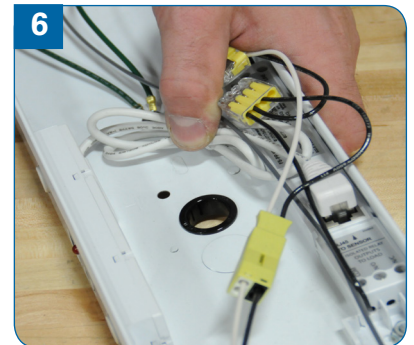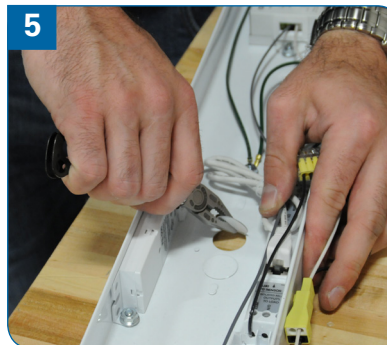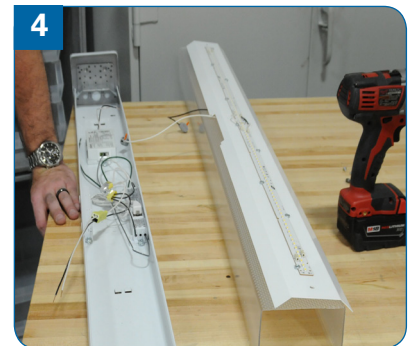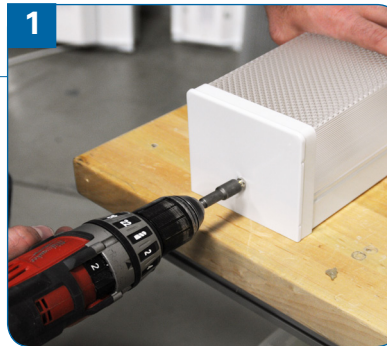
IMPORTANT NOTE: There is an initial warm-up period: It may take up to a minute before the lights turn on due to a sensor warm-up period required during initial power-up. This occurs during installation or after lengthy power failure only.

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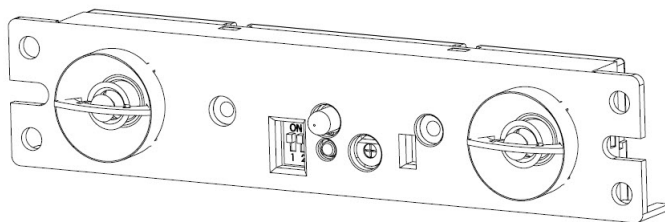
Sensor Functions

LED Indicator 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.

Time Delay

1	2	Minutes
–	–	5
–	•	10
•	–	15
•	•	30

• on, – off

← Default (15)
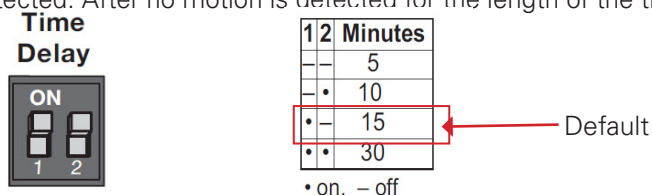
Test Mode Button A momentary press invokes the Test Mode. Press and hold for 5 seconds to invoke the lamp Burn-In mode.   Press and hold for 10 seconds to Override the sensor output. The LED lights to indicate how long the button is held. Initially the LED is cleared when the button is pressed. After 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 lights switch, if one is installed. To turn off the override mode, momentarily push the button again.

Burn-In 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 on the FS-PP, wire the lighting load to the NC and COM terminals as shown in Figure 11.
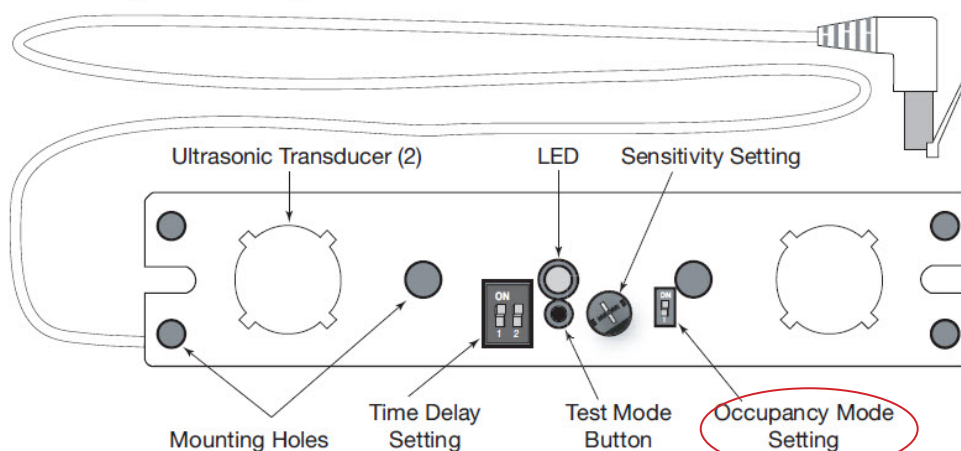
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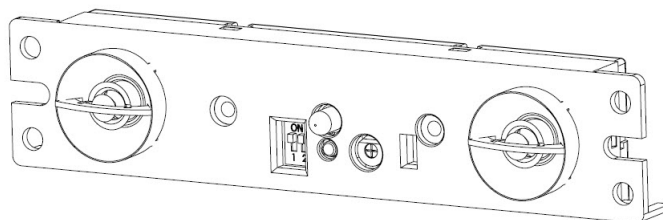
IMPORTANT NOTE: Before making adjustments, ensure all furniture and items are in room as they would be on a daily basis, turn lighting circuits on, and set HVAC systems to the overridden/on position. VA systems should be set to their highest airflow. Set the Time Delay to the desired setting. (See "Time Delay Switches" below.)

To Test Occupancy Sensors

1 Set the Sensitivity adjustment to 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.
NOTE: If the LED continues to flash, the sensor is detecting 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.

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.

Ultrasonic Transducer (2)   LED   Sensitivity Setting

Mounting Holes

Time Delay Setting

Test Mode Button

Occupancy Mode Setting

Do NOT change factory setting