

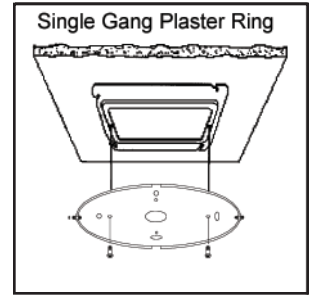


Building Automation, Inc.

# C8001500P Ultrasonic Line Voltage Ceiling Mount Sensor Installation and Operation Instructions

## DESCRIPTION

C500-800, C800-1500 Ultrasonic ceiling mount sensor. Supplied with mounting plate and mounting screws.



## PRE-INSTALLATION

1. For installation by a qualified electrician in accordance with national and local codes and the following instructions.
2. For indoor use only.
3. CAUTION: RISK OF ELECTRIC SHOCK. Disconnect power before installing. Never wire energized and electrical components.
4. CAUTION: USE COPPER CONDUCTORS ONLY.
5. Check to see that the device type and rating is suitable for the application.
6. When installing the sensor, observe the maximum rated capacity of the associated power pack:
  - 211-1 20A Incandescent (2400W Tungsten) at 120 VAC, 60 Hz. 20A Ballast (2400W Fluorescent) at 277VAC, 60 Hz.
  - 213-1 20A Ballast (5000W Fluorescent) at 277VAC, 60 Hz.
7. If moisture or condensation is evident, allow the product to dry completely before installation.
8. Do not install if any damage to the product is noticed.

**Mounting** - Unit should be mounted as shown in the mounting diagram using a single gang plaster ring attached to an approved box.

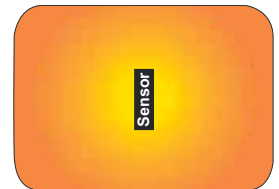
## INSTALLATION

1. CAUTION – Check that power is turned off at circuit breaker before installing the sensor.
2. Connect and mount the sensor as outlined in the drawings on reverse side.
3. Use approved wire nuts for all electrical connections.
4. Energize the sensor and allow it to warm up (approximately 3 min.).
5. Set the time delay and sensitivity (see ADJUSTMENTS on reverse side) and check operation by walking in the room. The lights should turn on and the LED should also blink when detecting motion.

## COVERAGE AND PLACEMENT

Line of sight is not required for ultrasonic sensors, they will see around objects such as partitions, furniture and stalls. The sensor should NOT be installed:

- In direct view of open doors or windows.
- Within 5 feet of air registers.
- Near shower or steam sources.
- Outside (For indoor use only)



AREA OF DETECTION  
C500800

## ADJUSTMENTS

Remove the cover located on the face of the sensor to access the sensitivity and time delay adjustments.

### Sensitivity

Located on the left when sensor is installed, the adjustment can be set to suit the needs of the application. Fully counterclockwise is the minimum setting, while fully clockwise yields maximum sensitivity. The larger the room, the higher the sensitivity should be.

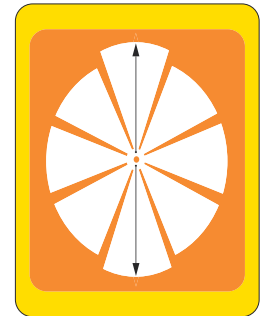
### Time delay

Located on the right when the sensor is installed, the time delay can be adjusted between 30 seconds and 30 minutes. This delay dictates the time the sensor will keep the lights on after no motion has been detected. Fully counterclockwise equates to 30 seconds (0.5 minutes), while fully clockwise equates to 30 minutes.

### Bypass (Override)

The sensor can be bypassed to keep the lights on if required. Insert the bypass key provide into the slot labeled bypass. This should only be for emergency or testing purposes.

Maximum Detection Pattern CUI8001500



### Mounting Height 9'

- Ultrasonic Detection/Major motion area
- Ultrasonic Detection/Minor motion area
- PIR Detection/Major motion area



Building Automation, Inc.

Hubbell Building Automation, Inc.  
9601 Dessau Road • Building One • Suite 100 • Austin, Texas 78754  
512-450-1100 • 512-450-1215 Fax  
www.hubbell-automation.com