



# CI-200 Passive Infrared Ceiling Sensor



PROJECT
LOCATION/TYPE

## Product Overview

### Description

Watt Stopper/Legrand's CI-200 and CI-205 are passive infrared occupancy sensors that provide 360° coverage. The low profile sensors reliably control lighting in a variety of applications.

### Operation

The CI-200 sensors are 24 VDC and control lighting through Watt Stopper power packs. They operate by turning lighting on when a person enters the controlled area. Occupancy is sensed when the unit detects a change in infrared heat within the controlled area. After the area is vacated for a user-adjustable time delay, lighting automatically turns off.

## Coverage

Coverage for the sensors can reach up to 1200 square feet using the Extended Range lens and 500 square feet using the High Density lens (circular pattern) for walking motion. For typical desktop level activity, coverage can reach up to 300 square feet.

## Applications

Applications include open office spaces, computer rooms, conference rooms, classrooms, and warehouses. Areas with high ceilings or with two-level lighting can also be controlled. Due to low initial cost and the great energy saving potential, the sensors offer fast paybacks.

## Features

- ASIC technology reduces components and enhances reliability
- Pulse Count Processing eliminates false offs without reducing sensitivity
- Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI
- Low-profile design ensures a clean and uncluttered ceiling appearance
- User-adjustable time delay from 15 seconds to 30 minutes by 2 minute increments
- Sensitivity is programmed through a DIP switch and has 4 settings from minimum to maximum
- Light level output can create bi-level lighting for added convenience and energy savings
- Isolated relay can be used to interface with HVAC, EMS, or with an additional lighting load
- LED indicates occupancy detection

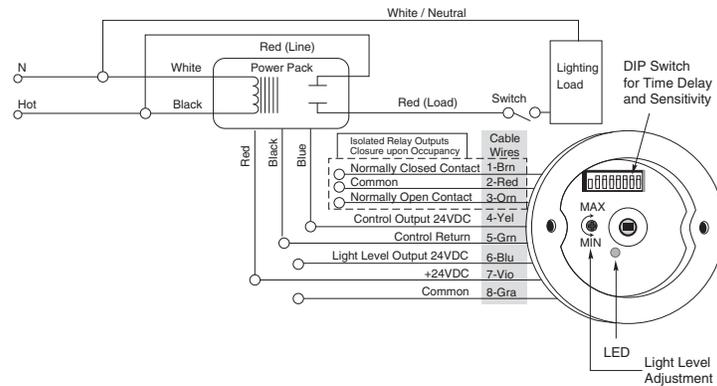


## Specifications

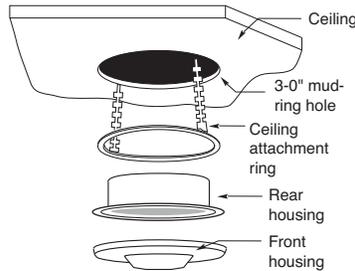
- Dual-element, temperature compensated pyro-electric sensor
- CI-200 contains isolated relay with N/O and N/C outputs; rated for 1 Amp at 24 VDC/VAC
- Digital time delay adjustable from 15 seconds to 30 minutes with  $\pm 2\%$  tolerance
- Integrated light level sensor – works from 4 to 190 footcandles (43 to 2,045 lux)
- Mounting options: ceiling tile or 3.0 inch round mudring
- Units per power pack: CI-200 up to 5(B), up to 7 (BZ); CI-205 up to 10 (B), up to 13 (BZ)
- Dimensions: 3.3" diameter x 2.2" deep (85mm x 56mm), extends approximately .36" from ceiling
- UL and CUL listed; five year warranty

## Wiring & Mounting

### Wiring Diagram



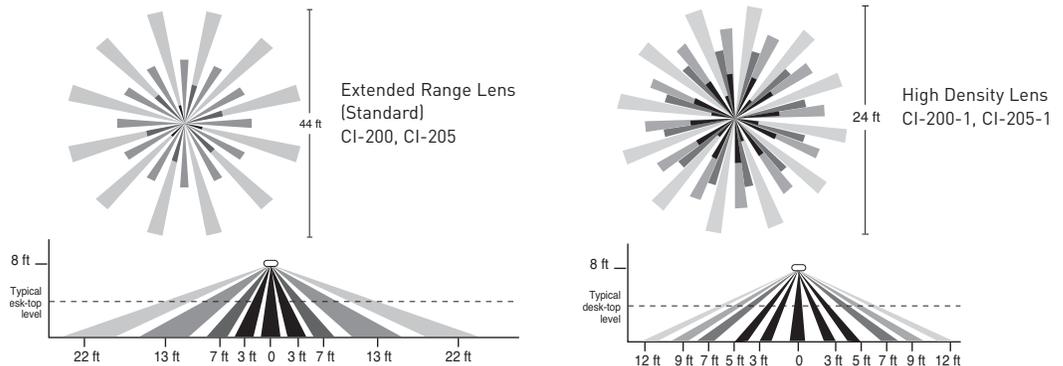
### Mounting



### DIP Switch Settings

DIP Switch #	1	2	3	4	5	6	DIP Switch #	7	8
<b>Time Delays</b>						<b>Sensitivity</b>			
15 seconds	●	●	●	●	●	●	Minimum	-	-
2 minutes	-	-	-	-	-	-	Medium Low	-	●
4 minutes	-	-	-	-	-	-	Medium High	-	●
6 minutes	-	-	-	-	-	-	Maximum	●	●
8 minutes	-	-	-	-	-	-	● = ON - = OFF		
10 minutes	-	-	-	-	-	-	▶ = Factory Presets		
12 minutes	-	-	-	-	-	-			
14 minutes	-	-	-	-	-	-			
16 minutes	-	-	-	-	-	-			
18 minutes	-	-	-	-	-	-			
▶ 20 minutes	-	-	-	-	-	-			
22 minutes	-	-	-	-	-	-			
24 minutes	-	-	-	-	-	-			
26 minutes	-	-	-	-	-	-			
28 minutes	-	-	-	-	-	-			
30 minutes	-	-	-	-	-	-			
<b>Override</b>									

## Coverage



## Ordering Information

Catalog No.	Voltage	Current	Coverage	Features
<input type="checkbox"/> CI-200	24 VDC	20 mA	360°; up to 1200 ft <sup>2</sup> [111.5 m <sup>2</sup> ]	Isolated relay, light level
<input type="checkbox"/> CI-200-1	24 VDC	20 mA	360°; up to 500 ft <sup>2</sup> [46.5 m <sup>2</sup> ]	Isolated relay, light level
<input type="checkbox"/> CI-205	24 VDC	11 mA	360°; up to 1200 ft <sup>2</sup> [111.5 m <sup>2</sup> ]	
<input type="checkbox"/> CI-205-1	24 VDC	11 mA	360°; up to 500 ft <sup>2</sup> [46.5 m <sup>2</sup> ]	
<input type="checkbox"/> MB-1	Industrial Mounting Bracket			
<input type="checkbox"/> MB-2	Industrial Mounting Bracket for HID fixtures			

Pub. No. 3707

All units are white and use Watt Stopper power packs. Current consumption can be slightly higher when only one sensor per power pack is used.