CI-200 Series Passive Infrared Ceiling Sensors

360° coverage •• User-adjustable time delay and sensitivity

Low-profile design • • •

Built-in light level sensor

Isolated relay for use with HVAC or other control systems

• • • ASIC enhances reliability and helps eliminate false triggers

Automatic or manual-on operation when used with a BZ-150 Power Pack

PROJECT

LOCATION/TYPE

Coverage

Coverage from the CI-200 Series 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 twolevel lighting can also be controlled. Due to low initial cost and the great energy saving potential, the sensors offer fast paybacks.

- Sensitivity is programmed through a DIP switch which has four settings ranging 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 an additional lighting load
- LED indicates occupancy detection
- Qualifies for ARRA-funded public works projects

Product Overview

Description

WattStopper's CI-200 Series Passive Infrared (PIR) Ceiling Sensors provide 360° coverage to detect occupancy in the controlled area. These lowprofile sensors reliably control lighting in a variety of applications.

Operation

The CI-200 Series Sensors are 24 VDC and control lighting through WattStopper power packs. Utilizing the latest PIR technology, they turn lighting on when a difference is detected between the infrared energy from a human being in motion and the background space within the controlled area. After the area is vacated for a user-adjustable time delay, lighting automatically turns off.

- ASIC technology reduces components and enhances reliability
 - Pulse Count Processing eliminates false off 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 two-minute increments

Watt Stopper www.wattstopper.com 800.879.8585

Features

Specifications

Wiring,

- Dual-element, temperature compensated pyroelectric sensor
- CI-200 contains isolated relay with N/O and N/C outputs; rated for 1 Amp at 24 VDC/VAC
- Adjustable digital time delay: 15 seconds to 30 minutes with ± 2% tolerance
- Integrated light level sensor: 4-190 footcandles (43-2,045 lux)

Wiring Diagram

- Mounting options: ceiling tile, round mud ring
- Max. CI-200s per power pack: B = 5, BZ = 7• Max. CI-205s per power pack: B = 10, BZ = 13
- Dimensions: 3.3" x 2.2" (84mm x 56mm) diameter x depth; extends approximately .36" (9.1mm) from ceiling
- UL and cUL listed
- Five year warranty

White / Neutral Mounting Red (Line) DIP Switch White & Settings Power Pack Lighting ^N for Time Delay 3 Load and Sensitivity Red (Load) Hot Black Cable Black Closure Red Wires Slue Normally Closed Contact 1-Brn 2-Red o8888888 Commor Normally Open Contact 3-Orn Control Output 24VDC 4-Yel 0 Control Return 5-Grn Light Level Output 24VDC 6-Blu +24VDC 7-Vio Common 8-Gra LED **DIP Switch Settings** Light Level Adjustment DIP Switch # 123456 DIP Switch # 78 Mounting Time Delays 3 Del (trys) 15 seconds ● ● ● 2 minutes - ■ ● ● 4 minutes - ■ ● 6 minutes - ■ ● ● 8 minutes - ■ ● ● 10 minutes - ■ ● ● 12 minutes - ■ ● ● 14 minutes - ■ ● ● 16 minutes - ■ ● ● ensitivity Minimum - -Medium Low - • Ceiling Medium High 🔍 -Maximum • = ON - = OFF ► = Factory Presets Mud ring 14 minutes - - - • • • 16 minutes - • • • • • hole Ceiling 18 minutes 🗧 – 🗨 🗣 – 🗣 attachment 20 minutes - • - • - • ring Rear 26 minutes - - • - - • housing Front 30 minutes -۲ housing Override -Coverage **Coverage Patterns** Extended Range Lens High Density Lens (Standard) CI-200-1, CI-205-1 CI-200, CI-205 24 ft 44 ft 8 ft 8 ft Typic desk-to Тур 22 ft 13 ft 13 ft ò 3 ft 7 ft 22 ft 7 ft 3 ft 12 ft 9 ft 7 ft 5 ft 3 ft ò 3 ft 5 ft 7 ft 9 ft 12 ft Catalog No. Voltage Current Coverage Features Ordering CI-200 24 VDC 20 mA 360°; up to 1200 ft² (111.5 m²) Isolated relay, light level Information CI-200-U CI-200-1 24 VDC 20 mA 360°; up to 500 ft² (46.5 m²) Isolated relay, light level CI-205 24 VDC 11 mA 360°; up to 1200 ft² (111.5 m²) CI-205-U 24 VDC 360°; up to 500 ft2 (46.5 m2) 11 mA CI-205-1 Industrial Mounting Bracket MB-1 Industrial Mounting Bracket for HID fixtures

Pub. No. 3710 rev. 5/2013

MB-2

All units are white and use WattStopper power packs. Current consumption can be slightly higher when only one sensor per power pack is used. -U = ARRA compliant. Product produced in the U.S.

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