

Hubbell C-500-800

Hubbell C-500-800 Conserver Ceiling Mount Occupancy Sensor

INSTRUCTION MANUAL

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Hubbell C-500-800 Conserver Ceiling Mount Occupancy Sensor. This device is a 24VDC motion detector designed for energy conservation in various applications. Please read these instructions carefully before proceeding with installation or operation.

Safety Information

- **WARNING:** Risk of electric shock. Disconnect power at the circuit breaker or fuse box before installation or servicing.
- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not install in wet locations or where the sensor may be exposed to direct water spray.
- Ensure the power supply is 24VDC as specified for this unit.

Setup

1. Mounting

The C-500-800 sensor is designed for ceiling mount applications. Select a central location on the ceiling that provides an unobstructed view of the area to be monitored. Avoid mounting near HVAC vents or other sources of rapid temperature changes that could cause false triggers.

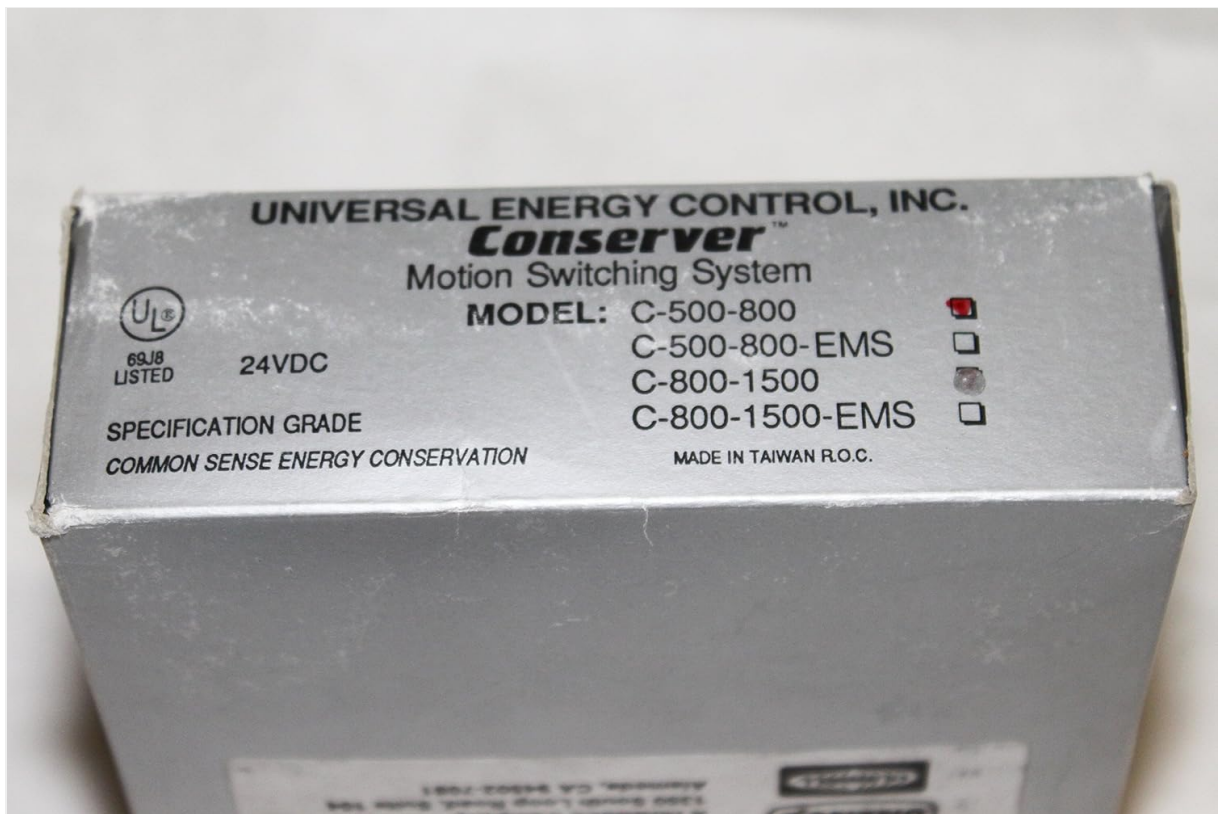


Image: Product label for the Hubbell Conserver Motion Switching System, showing model C-500-800, 24VDC power requirement, and UL listing. This label confirms the product's specifications and compliance.

1. Securely attach the mounting bracket (if supplied separately) to the ceiling using appropriate hardware.
2. Attach the sensor unit to the mounting bracket, ensuring it is firmly in place.

2. Wiring

Ensure power is disconnected before wiring. Connect the 24VDC power supply to the sensor terminals as indicated in the wiring diagram (refer to the product's specific wiring diagram, typically found on the unit or in its packaging). Observe correct polarity for DC connections.

1. Connect the positive (+) lead of the 24VDC power supply to the sensor's positive input terminal.
2. Connect the negative (-) lead of the 24VDC power supply to the sensor's negative input terminal.
3. Connect the output leads from the sensor to the controlled load (e.g., lighting relay) according to the system design.

3. Initial Power-Up

After all connections are made and verified, restore power to the circuit. The sensor may undergo a brief warm-up period, during which its indicator light (if present) may flash. Allow a few minutes for the sensor to stabilize before testing its operation.

Operating

The Hubbell C-500-800 Conserver is an occupancy sensor designed to detect motion within its coverage area. When motion is detected, the sensor activates its output, typically signaling a lighting control system or other connected device to turn on. When no motion is detected for a predetermined period, the sensor deactivates its output, signaling the connected device to turn off, thereby conserving energy.

- **Automatic Operation:** The sensor operates automatically once powered. It continuously monitors for occupancy.

- **Coverage Area:** The sensor provides a specific coverage pattern. Ensure the area to be monitored falls within this pattern for optimal performance.
- **Time Delay:** The sensor typically has an adjustable or fixed time delay. This delay determines how long the output remains active after the last detected motion. Refer to specific product documentation for adjustment procedures if applicable.

Maintenance

The Hubbell C-500-800 Conserver sensor requires minimal maintenance to ensure continued optimal performance.

- **Cleaning:** Periodically clean the sensor lens with a soft, dry cloth to remove dust or debris that may obstruct its view. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the sensor for any physical damage or loose connections. Ensure the mounting remains secure.
- **Testing:** Periodically test the sensor's functionality by entering and exiting its coverage area to confirm it activates and deactivates as expected.

Troubleshooting

Problem	Possible Cause	Solution
Sensor does not activate.	No power; incorrect wiring; obstructed view; sensor malfunction.	Check power supply and connections; clear obstructions; verify sensor placement; contact support if malfunction is suspected.
Sensor activates too frequently (false triggers).	Mounted near HVAC vents; excessive vibration; external light changes.	Relocate sensor away from heat/air sources; ensure stable mounting; check for external factors.
Sensor does not deactivate.	Constant motion detected; time delay set too long; sensor malfunction.	Ensure no continuous motion in coverage area; check time delay settings; contact support.

Specifications

Feature	Specification
Brand	Hubbell
Model Number	C-500-800
Power Source	24VDC (Corded Electric)
Mounting Type	Ceiling Mount
Item Weight	1 Pound
UPC	642337957031

Feature	Specification
GTIN	642337957031

Warranty and Support

Warranty information for the Hubbell C-500-800 Conserver is typically provided with the product packaging or available through the point of purchase. For technical support, service, or warranty claims, please contact Hubbell customer service or your authorized distributor.

For additional resources, you may visit the [Hubbell Store on Amazon](#).