

Catalog # OS106D1 Auto On Sensor Dimmer Catalog # VS106D1 Manual On Sensor Dimmer

SPECIFICATIONS

- Single Pole
- 5A (600W) 120V AC 60 Hz.
- For Incandescent and Magnetic Low Voltage (MLV)
- **NOTE** - A Neutral Connection is required in the wallbox where the sensor will be installed

DESCRIPTION

- The OS106D1 or VS106D1 can replace a standard wall switch controlling an incandescent or magnetic low voltage load.
- The OS106D1 turns on automatically when a person enters the room.
- The VS106D1 requires manual activation to turn on the lights.
- Both OS106D1 and VS106D1 will automatically turn off lights after a user selectable time delay.
- OS106D1 includes a light level adjustment for daylight to prevent motion from turning on the lights if the daylight level in the room is bright enough that lights are not needed.
- OS106D1 and VS106D1 incorporates the ability to detect when rooms are only occupied very briefly and shortens the time delay in order to save energy.
- An LED indicates the load status and provides a momentary flash to indicate that motion has been detected.

OPERATION INSTRUCTIONS

Auto ON Sensor Dimmer— OS106D1

- OS106D1 will turn on lights automatically when a person enters the room
- The light level may be changed by pressing the dimmer bar – left side for dimming and right side for brightening.
- Green LEDs in the dimmer bar indicate the light level.
- Green LED's will dim when the dimmer is off.
- Lights will turn off automatically when no motion is detected after a selectable time delay.
- The selectable time delays are 5 seconds (Test Mode), 5 minutes (factory default), 15 minutes and 30 minutes.

Manual ON Sensor Dimmer – VS106D1

- The VS106D1 must be turned on manually with the ON/OFF button.
- Lights will turn off automatically when no motion is detected after a selectable time delay.
- The light level may be changed by pressing the dimmer bar – left side for dimming and right side for brightening.
- Green LEDs in the dimmer bar indicate the light level.
- Green LED's will dim when the dimmer is off.
- The selectable time delays are 5 seconds (Test Mode), 5 minutes, 15 minutes and 30 minutes (factory default).
- When the lights have turned off due to a lack of motion, the lights will turn ON automatically if motion is detected within 10 seconds.

OS106D1 SPECIAL MODES

- **Reverse Mode:** The reverse mode is used when the lights must stay OFF in a room while motion is detected. If the lights are ON, a double tap of the ON/OFF button will turn off the lights and put the device into the Reverse Mode. This allows the lights to stay OFF as long as motion is detected. After the time delay is finished the sensor operation goes back to normal.
- **Manual ON Only mode:** This mode may be selected to prevent motion from automatically turning on the lights. Press and hold the ON/OFF button for 5 seconds until the indicator LED blinks. Release the button while the LED is blinking. Repeat this procedure to restore normal operation. While the OS106D1 is in the manual ON mode, it will behave like a VS106D1.
- **Override Mode:** Turns off all motion sensing and allows the device to be used as a regular ON/OFF switch or in the unlikely event of a failure of the motion sensor. Press and hold the ON/OFF button for 10 seconds until the indicator LED blinks for the second time (the LED will also blink at the 5 second point). Release the button while the LED is blinking. Repeat this procedure to restore normal operation. This mode also can be used on VS106D1.

INSTALLATION INSTRUCTIONS

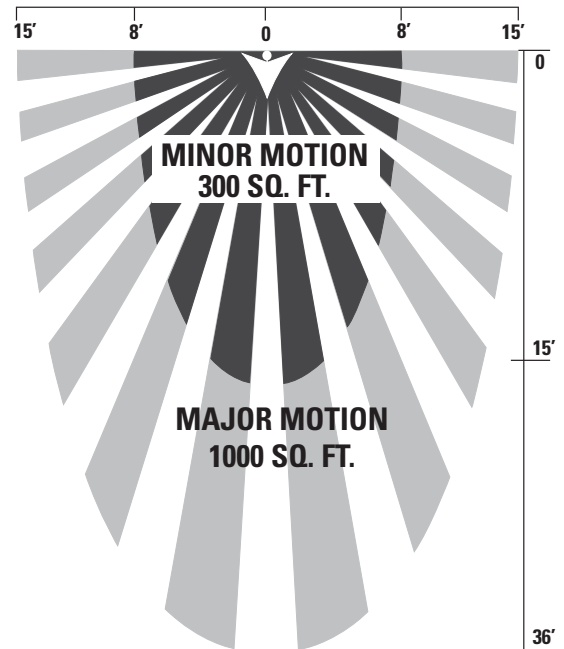
WARNING:

- Turn OFF circuit breaker or remove fuse(s) and verify that power is off before wiring.
- Never wire any electrical device with power turned on. Wiring the device with the power on may cause permanent damage to the device and void the warranty.
- If you are unsure about any part of these instructions, or if the wiring does not match the descriptions given, you should call a qualified electrician.

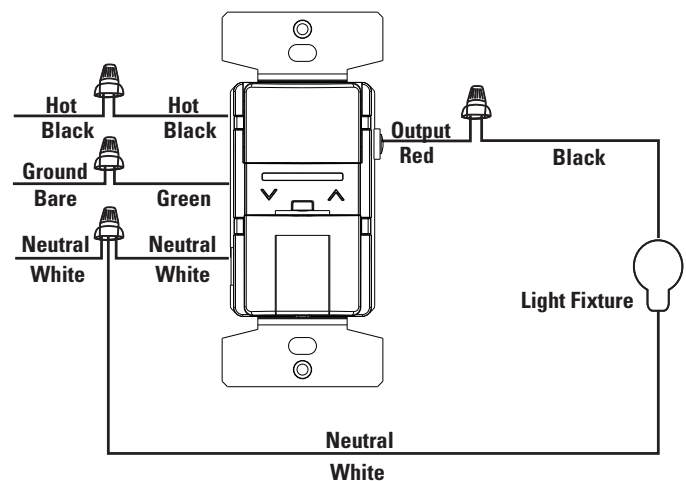
CAUTION:

1. Use only with 120V AC 60 Hz.
2. Must be installed and used in accordance with all applicable electrical codes.
3. If a bare copper or green ground connection is not available in the wallbox, contact a licensed electrician for installation. Do not install without proper ground connections.
4. Do not exceed maximum device ratings.

COVERAGE PATTERN



WIRING DIAGRAM



5. Use only #14 or #12 copper wire rated for at least 75° C with these devices. Do not use with aluminum wire.
6. For use ONLY with permanently installed fixtures of these types: **Incandescent and Magnetic Low Voltage (MLV)**
7. To avoid overheating and possible damage to other equipment, do not use to control receptacles.
8. Use only #14 or #12 copper wire with these devices.

Installing OS106D1 & VS106D1

Refer to the wiring diagram and install the sensor according to these directions.

You must verify that a neutral wire is available in the wallbox.

1. The sensor black wire will connect to the hot wire (black) in the wallbox.
2. The sensor red wire will connect to the wire which goes to the light fixture.
3. The sensor white wire will connect to the neutral wire (white) in the wallbox.
4. The sensor green wire will connect to the ground wire in the wallbox.
5. Install the sensor loosely using the mounting screws provided.
6. Apply power temporarily and verify that the sensor works by pushing the ON/OFF button to verify the lights turn ON and OFF. If the lights do not work, then **turn off the power** and swap the connections on the sensor black and red wires.
7. Apply power again and verify that the sensor works by pushing the ON/OFF button to verify the lights turn on and off.

COMPLETING THE INSTALLATION:

1. Secure sensor into the wall box using two mounting screws provided. Turn the circuit breaker ON.
2. Allow the sensor to stabilize for 10 seconds. The sensor is now ready to detect motion.
3. Verify that Power is ON by pushing the ON/OFF button. Lights and LED should turn ON.
4. NOTE - The sensor time delay is factory preset (OS106D1 = 5 minutes; VS106D1 = 30 minutes).
5. If you want to change the time delay proceed as follows:
 - a. Remove the button from the sensor by pressing in the hooks on the button, and then lift up on the button as shown in Fig. 1.
 - b. Set the time delay using the dial on the right side by using a small Phillips screwdriver. Align the arrow on the dial to desired time delay.
 - c. To allow the installer to quickly confirm that the sensor is functioning properly the time delay can be set to TEST. This will set a time delay of 5 seconds, which allows quick feedback that the sensor is working properly.
6. Replace push button by sliding it upward into the slots in the front housing and push down until the button hook snaps into place.
7. Push the ON/OFF button to verify that the lights turn ON/OFF, and that the button operates freely.
8. Install the wallplate.

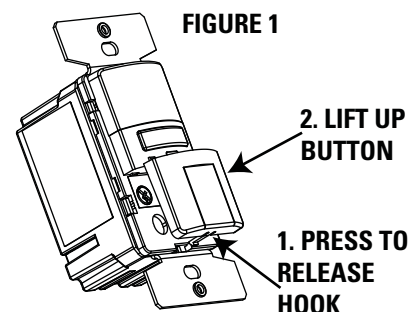
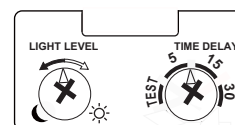


FIGURE 2



Daylight Sensing Adjustment (OS106D1 only):

- The Daylight sensing feature prevents lights from turning ON when the room is adequately illuminated by natural light.
- **NOTE** - The factory setting for this adjustment is fully clockwise and permits motion detection to turn ON the lights regardless of the ambient light level in the room.
- Remove the ON/OFF pushbutton to access the light level adjustment.
- This adjustment must be made when the light level in the room is at the desired level for the lights to turn ON.
- From the clockwise position, turn the dial on the left counterclockwise using a small Phillips screwdriver until the LEDs turn ON (see Fig. 2).
- Step away from the sensor to allow the device to calibrate to the normal light level in the room. Do not obstruct the natural light. The calibration process starts when the Night Light turns OFF, and will take approximately 5 seconds. At the end of the calibration process the sensor will turn the lights ON.
- Replace the ON/OFF pushbutton.

TROUBLESHOOTING:

If you have a problem with your Motion Sensor, first follow this guide. If the problem persists, call the customer service hotline at 1-866-853-4293 between 8:00 A.M. and 6:00 P.M. EST weekdays.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Light does not automatically turn on.	1. Circuit breaker or fuse is turned off. 2. Bulb is defective. 3. Poor connection. 4. ON/OFF button not pushed. 5. Control may be wired incorrectly. 6. Daylight sensing prevents lights on. 7. Manual On mode selected.	1. Turn circuit breaker on. 2. Replace light bulb. 3. Verify all wiring connections. 4. Press the ON/OFF button. 5. Check wiring. 6. Re-adjust daylight sensing level. 7. Set device to Automatic On mode
Light does not automatically turn OFF.	1. Motion is still present. 2. Time Delay has not expired. 3. Control may be wired incorrectly. 4. Switch is being triggered by air vent or other heat source.	1. Make sure there is no motion during the time delay period. 2. No action needed or shorten TIME DELAY. 3. Check wiring. 4. Determine the source triggering the switch, and alter the air flow.
Light does not stay ON	1. Motion is not detected. 2. TIME control is set for too short a delay.	1. Create movement in front of the sensor for 5 seconds.. 2. Set switch TIME control to longer time period.
Remote switch does not work	1. Control may be wired incorrectly.	1. Check wiring

COOPER WIRING DEVICES LIMITED 2 YEAR WARRANTY

Cooper Wiring Devices (CWD) warrants this device to be free of defects in materials and workmanship in normal use and service for a period of two years from date of original purchase. THIS 2 YEAR LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS, OR LIABILITIES, EXPRESSED OR IMPLIED (INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE THAT IS IN DURATION IN EXCESS OF 2 YEARS FROM THE DATE OF ORIGINAL CONSUMER PURCHASE). NO AGENT, REPRESENTATIVE, OR EMPLOYEE OF CWD HAS AUTHORITY TO INCREASE OR ALTER THE OBLIGATIONS OF CWD UNDER THIS WARRANTY. To obtain warranty service for any properly installed CWD device that proves defective in normal use send the defective Occupancy Sensor prepaid and insured to Quality Control Dept., Cooper Wiring Devices, 203 Cooper Circle, Peachtree City, GA 30269; in Canada: Cooper Wiring Devices, 5925 McLaughlin Road, Mississauga, Ontario L5R 1B8. CWD will repair or replace the defective unit, at its option. CWD will not be responsible under this warranty if examination shows that the defective condition of the unit was caused by misuse, abuse, improper installation, alteration, improper maintenance or repair of damage in shipment to CWD. CWD SHALL HAVE NO RESPONSIBILITY FOR INSTALLATION OF THE SENSOR, OR FOR ANY PERSONAL INJURY, PROPERTY DAMAGE, OR ANY SPECIAL, INCIDENTAL, CONTINGENT, OR CONSEQUENTIAL DAMAGES OF ANY KIND, RESULTING FROM DEFECTS IN SENSOR OR FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT.