

**INSTRUCTIONS
FOR THE
INTERMATIC®
MOTION SENSOR
WALL SWITCH**

LEARN HOW TO INSTALL

The Intermatic MS Series Motion Sensor Wall Switch is an automatic light control meant for indoor use. It automatically turns lights on when motion is sensed within its range and turns the lights off after a preset time when there is no motion.

The Motion Sensor Wall Switch is ideal for practically any room in the home including family rooms, dens, dining rooms, hallways, bedrooms, basements and utility rooms plus any other indoor area.

The Motion Sensor Wall Switch can replace any standard light switch that controls from 40 to 500 watts of incandescent lighting or from 60 to 400 watts of rapid start fluorescent lighting. Two motion sensors may be installed in 3-way circuits (page 9). In a 3-way circuit, the minimum wattage will double.

NOTE: This product will not work with other appliances or lights built into fans and heaters. Do not use with starter, compact fluorescents or other electronic ballasts.

MS11 Series Package Contains:

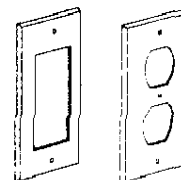
- One Motion Sensor Wall Switch
- Two Wire Connectors

MS13 Series Package Contains:

- One Motion Sensor Wall Switch
- Three Wire Connectors
- One Jumper Wire

Equipment Needed:

- Flat Blade Screwdriver
- Small Phillips Screwdriver
- One Decorator Switch Plate or One Standard Double Receptacle Switch Plate (Switch plates are not included.)



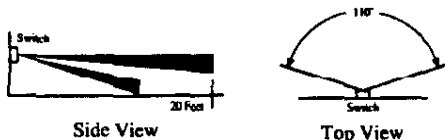
NOTE: Some local building codes require installation by a qualified electrician.

Intermatic Incorporated

INSTALLATION

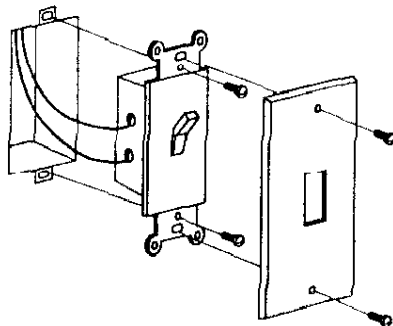
1. Find a wall switch location that meets the criteria set on page 2 plus these requirements:

- The wall switch must be in a position to sense the normal light level in the room to avoid lights being turned on in the daytime.
- At a recommended 4 feet from the floor, the motion sensor will have the approximate coverage shown below.



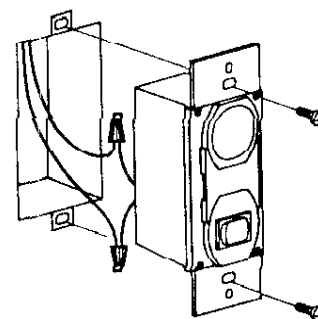
2. **TURN OFF THE POWER TO THE LIGHT SWITCH BEFORE INSTALLATION** using the circuit breaker or fusebox.

3. Remove the existing switch and disconnect the wires.



NOTE: If more than two wires are attached to the switch, consult an electrician before continuing. Remember to save the screws for the installation of the new wall switch.

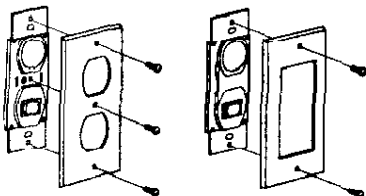
4. Connect each junction box wire with a motion sensor wire using the wire connectors included with the product.



Make sure the wire connectors are secure and that no uninsulated wires are exposed. Push excess insulated wire into the junction box.

5. Attach the Motion Sensor Wall Switch using the old screws.

6. Attach the switch plate to the motion sensor. Take care to fasten these screws securely.



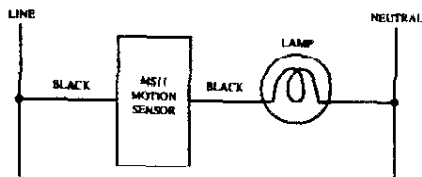
NOTE: Remove the sensor control access panel before attaching a double receptacle switch plate.

7. Set the toggle switch to the "OFF" position.

8. Turn on the power to the light switch using the circuit breaker or fuse box.

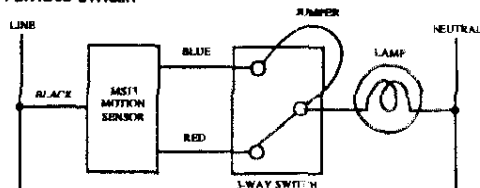
1-WAY CIRCUITS (One MS11 Motion Sensor)

Wiring diagram to replace a wall switch.



3-WAY CIRCUITS (One MS13 Motion Sensor)

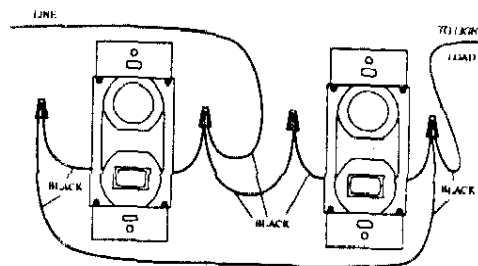
A motion sensor can be rewired to work with a remote switch



Mark the wires while removing the existing switches for easier installation of the motion sensor.

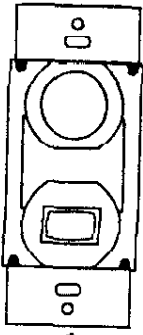
3-WAY CIRCUITS (Two MS11 Motion Sensors)

Two Motion Sensor Wall Switches can be wired for use in a circuit as shown below.



Wiring with Motion Sensors

Mark the wires while removing the existing switches for easier installation of the motion sensors.



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BEFORE INSTALLATION

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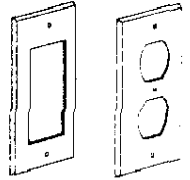
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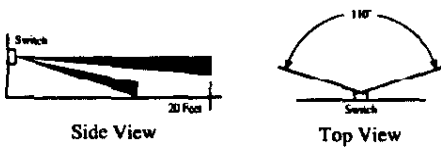


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INSTALLATION

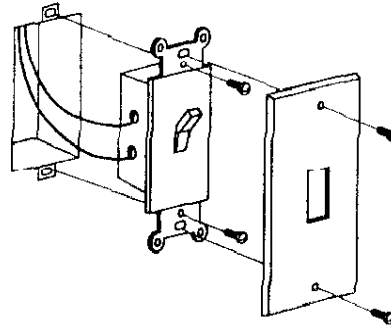
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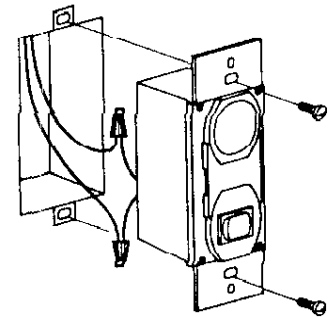
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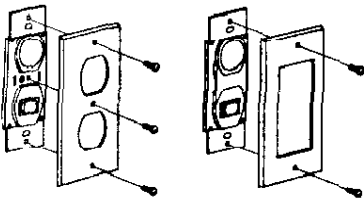
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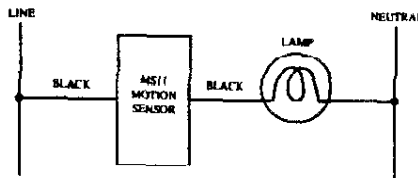
NOTE: Remove the sensor control access panel before attaching a double receptacle switch plate.

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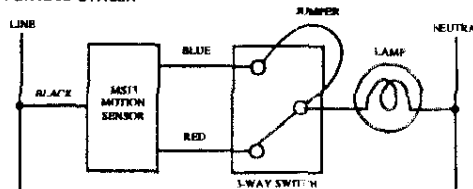
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3-WAY CIRCUITS (One MS13 Motion Sensor)

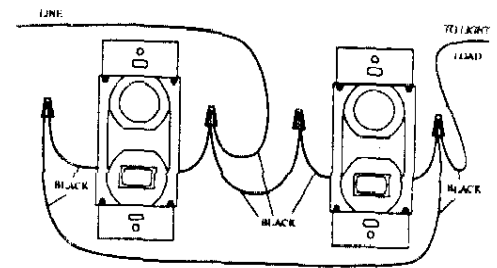
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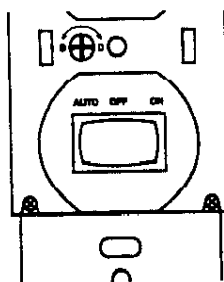


Wiring with Motion Sensors

Mark the wires while removing the existing switches for easier installation of the motion sensors.

CONTROL

A three-position switch controls the mode of operation for the Motion Sensor Wall Switch.

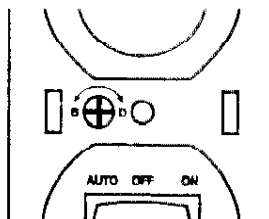
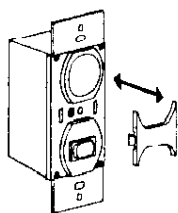


- ON** = Turns lights on manually.
OFF = Turns lights off manually.
AUTO = Lights are on when motion is detected.
B = Bright Room Light
D = Dark Room Light

10

- Turn the sensor control counter clockwise to adjust for a brighter area. This prevents the switch from turning lights on in the daytime. **You may have to wait for the appropriate time at dusk or dawn to begin this operation.**
- To replace the sensor control access panel, place the panel squarely into position. Press one end and then the other until they snap into place. Ignore this step if using a double outlet switch plate over the product.

13

**Sensor Control**

Controls the level of light in the room that the sensor needs to turn on lights in the AUTO mode. The sensor control is located between the sensor itself and the switch underneath an access panel. The panel can be removed with your fingers or pried open with the aid of a flat blade screwdriver. The control can be adjusted with a Phillips screwdriver between total darkness and bright light settings.

11

TROUBLESHOOTING GUIDE**Symptoms**

Lights do not come on. **A. B. C. D. E. F.**
 Lights do not stay on in the AUTO mode. **G.**
 Lights do not turn on or off. **F. H. I.**
 Lights come on randomly in the AUTO mode. **J. K. L.**

Possible Causes

A. Circuit breaker or fuse is turned off. **B.** Switch on the light is turned off. **C.** Bulb is defective. **D.** Sensor control is set too far towards "B". **E.** Toggle switch is set to OFF instead of AUTO. **F.** Incorrect wiring. **G.** Motion has stopped in the room. **H.** Toggle switch is set to ON instead of AUTO. **I.** Motion is still present. **J.** Heating or cooling objects (such as air vents, appliances, or drafts through the wall box) are causing false triggering. **K.** Switch on the lamp has been turned off and back on. **L.** There was a momentary power interruption. The light will turn off automatically when the "on" time expires.

14

INTERMATIC ONE YEAR WARRANTY

If within one (1) year from the date of purchase, this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it free of charge.

The warranty does not apply to: (a) damage caused by accident, abuse, mishandling, dropping; (b) units which have been subject to unauthorized repair, opened, taken apart; (c) units not used in accordance with directions; (d) damages exceeding the cost of the product. Some states do not allow a limitation of damages, so the foregoing limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

This warranty service is available by either: (a) returning the product to the dealer from whom the product was purchased or (b) mailing postage prepaid to the authorized service station listed below. Be sure to wrap the product securely when mailing to avoid shipping damage. This warranty is made by Intermatic Incorporated, Spring Grove, Illinois 60081-9698.

AUTHORIZED SERVICE STATION
INTERMATIC INCORPORATED
 4720 West Montrose Avenue, Chicago, IL 60641

16

ADJUSTMENTS

- Turn the sensor control fully clockwise. ("D" or dark position)
- Turn on the lamp switch, if a switch exists.
- Set the control switch to AUTO. The light should come on.
- To allow the wall switch to warm up and adjust to the control setting, wait one minute.
- Move in front of the sensor while occasionally pausing. The light will turn off at the pre-set time of 4 1/2 minutes after motion ceases. As soon as the light is out, the sensor will not operate again for 3 or 4 seconds. When the wall switch turns the lights on with motion, it is operating properly.

12

SPECIFICATIONS

Min. Lighting Load	40 Watts Incandescent 80 Watts (3-Way Circuit) 60 Watts Rapid Start Fluorescent 120 Watts (3-Way Circuit)
Max. Lighting Load	500 Watts Incandescent 400 Watts Rapid Start Fluorescent 500 Watts - Single Gang 400 Watts - Double Gang
Typical Range	Up to 20 feet.
Light "On" Time	4 1/2 minutes.
Size	Fits in standard wall box.

15