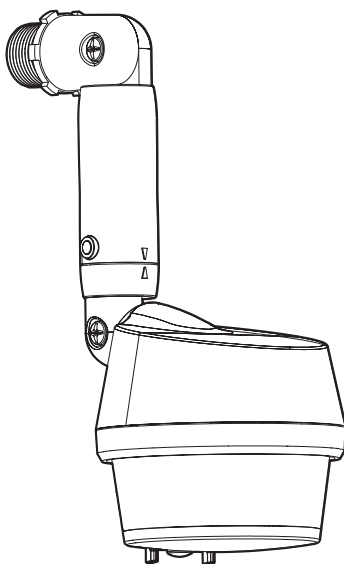


DEFIANT®

Item #XXXXXXXXXX
Model #RS-2701-WH
#RS-2701-BZ

USE AND CARE GUIDE

RS-2701 MOTION SENSOR



Questions, problems, missing parts? Before returning to the store,
call Defiant Customer Service
8 a.m. - 7 p.m., EST, Monday - Friday, 9 a.m. - 6 p.m., EST, Saturday

1-866-308-3976

HOMEDEPOT.COM

THANK YOU

We appreciate the trust and confidence you have placed in Defiant through the purchase of this motion sensor. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Defiant!

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Safety Information

PRECAUTIONS

Please read and understand this entire manual before attempting to assemble, install, or operate this motion sensor.

The motion sensor requires 120-volts AC.

Some codes require installation by qualified electrician.

This motion sensor is intended for use with a junction box marked for use in wet locations.

For proper operation, this light fixture should be:

- Installed outdoors on a wall, or under an eave.
- Installed approximately 7 ft. (2.1m) above the ground (if the motion sensor is mounted higher than recommended, aiming the sensor down will reduce the coverage area).
- For supply connection; use 18 AWG or larger wires suitable for at least 80°C.
- "Use copper wire only".  



WARNING: Turn the power off at the circuit breaker or fuse. Place tape over the circuit breaker switch and verify power is off at the light fixture.



WARNING: "THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HARZARDS INVOLVED."



WARNING: This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.



WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



CAUTION: Burn hazard. Allow the bulbs to cool before touching.



WARNING: This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warranty

5-YEAR WARRANTY

Contact the Customer Service Team at 1-866-308-3976 or visit www.homedepot.com.

Specifications

Detection Range	Up to 70 ft. (21m) - Varies with surrounding temperature
Sensing angle	Up to 270°
Time delay	1, 5 or 10 minutes
HI-LO timer	OFF, Dusk-to-Dawn, Seasonally adjusted timer mode
Operating modes	Auto, Manual, Eco, Smart

Lamp Type	Wattage
Lamp Load	300W (Max)

Pre-Installation

PLANNING INSTALLATION

Before installing the motion sensor, ensure that all parts are present (see *Hardware Included* on page 4). If any part is missing or damaged, do not attempt to assemble, install, or operate this light fixture.

Estimated installation time: 30 minutes

TOOLS REQUIRED



Phillips
screwdriver



Flathead
screwdriver



Pliers



Wire strippers/
cutters



Circuit tester



Work gloves



Electrical tape



Silicone sealant



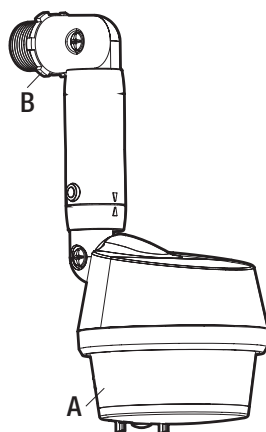
Ladder



Safety goggles

Pre-Installation (continued)

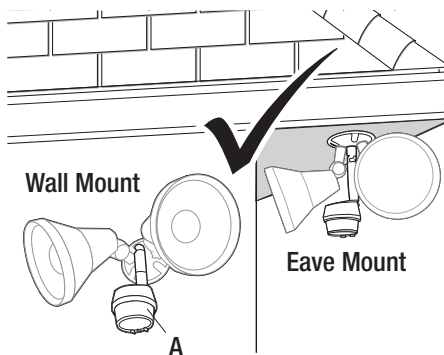
PACKAGE CONTENTS



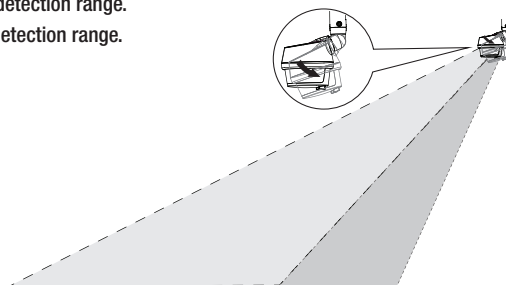
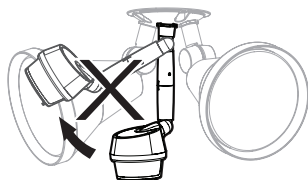
Part	Description	Quantity
A	Motion sensor	1
B	Lock nut	1

MOUNTING LOCATIONS

- Determine the mounting location - a wall or under an eave.
- Position the sensor head (A) in the general direction of the desired sensor coverage.



- Do not tilt the sensor head upward.
- Please tilt the sensor head forward for longer detection range.
- Tilt the sensor head downward to reduce the detection range.



Installation

1 Installing and Wiring the Motion Sensor



WARNING: Turn the power off at the circuit breaker or fuse. Place tape over the circuit breaker switch and verify power is off at the light fixture.



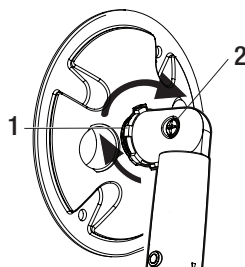
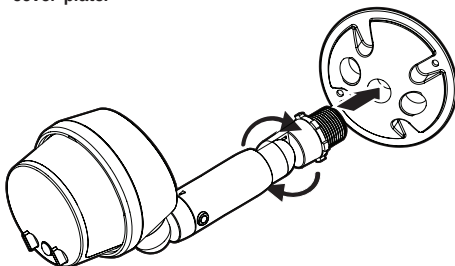
CAUTION: Keep the sensor at least 1 in. (25mm) away from the bulbs.



NOTE: Do NOT mix different types of bulbs operated by this motion sensor; for example, LED, CFL or halogen. Further, do NOT mix dimmable and non-dimmable bulbs. Mixing bulbs may cause problems with the operation of the product.

For installation, the sensor head must be rotated as shown in the next two steps for proper operation.

- Remove the existing light fixture by removing the screws holding the cover-plate to the junction box. Undo the wire nuts and remove the existing motion sensor (if applicable) by unscrewing it from the cover-plate.
- Screw your new Defiant motion sensor into the cover-plate.
- Tighten the lock nut (1) and screw (2) if necessary.



- Connect the junction box wires to the light control wires. The red wire from the sensor should be attached to the black wire or wires coming from the light fixture and secured with a wire nut.

The white wires from the house wiring, the new motion sensor and the light fixture should all be connected together and secured with a wire nut.

The black wire from the new motion sensor should be connected to the black house wiring coming from the junction box and secured with a wire nut.

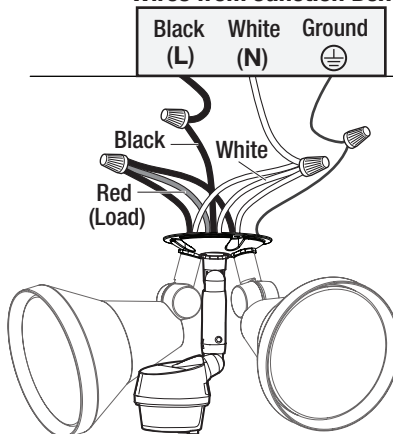
If applicable, attach the ground wire from your house to the ground screw on the light fixture; or to the ground wire coming from the fixture with a wire nut.

- Replace the screws to reattach the light fixture to the junction box.



NOTE: Firmly pull on the mounting bracket to verify it is securely mounted to the junction box. If necessary, use the screws that were removed from the existing light fixture.

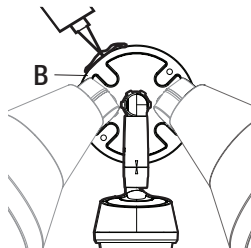
Wires from Junction Box



Installation (continued)

2 Caulking Around the Light Fixture

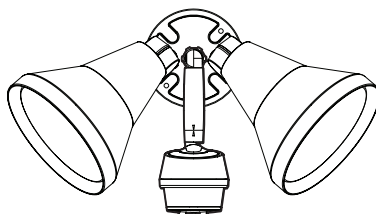
- Replace the gasket for your light fixture, if the existing one is worn out or damaged.
- Caulk around the canopy (B) and the mounting surface with silicone sealant (not included).



Operation

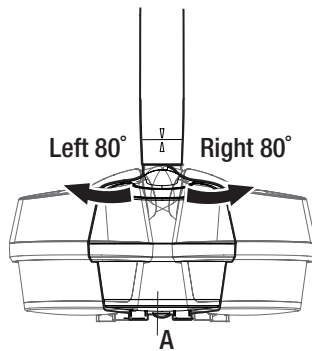
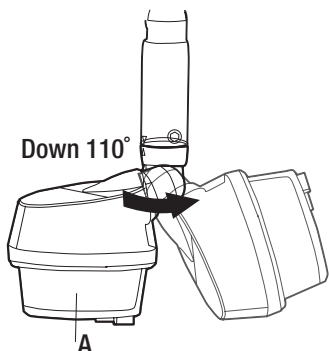
1 Lamp Adjustment

- Follow the instructions that came with your light fixture for mounting and adjusting the light fixture.
- Keep regular lamps at least 1 in. (25mm) from the sensor. Halogen lamps should be kept at least 2 in. (51mm) from the sensor.



2 Sensor Head Adjustment

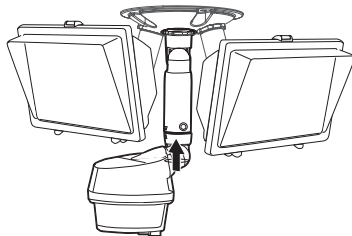
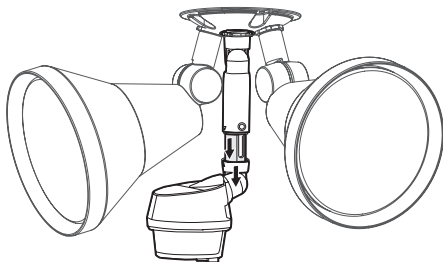
- Rotate the motion sensor (A) so the controls face toward the ground.
- The sensor can be tilted down 110°, as well as rotated 80° left and 80° right.



Operation (continued)

3 Sensor Arm Adjustment

- If you are using bulbs or fixtures that interfere with the coverage of your 270° motion sensor coverage, you can extend the arm of the sensor lower, so it will be below most bulbs and fixtures.
- If you are using another type of bulb or fixture that does not require the extended arm, you can retract the arm for a more compact look.



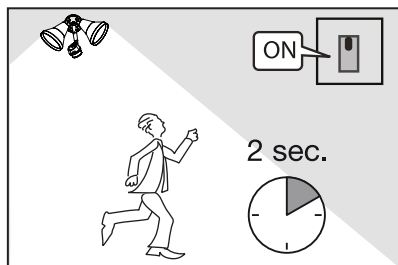
4 Testing and Adjusting the Motion Sensor

- Turn on power and allow the motion sensor to warm up for about 90 seconds.

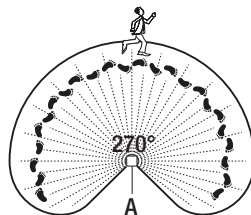
The sensor will be in TEST mode automatically after warm-up until it no longer detects motion for more than 2 minutes. Lights will come on for approximately 2-3 seconds in TEST mode.



NOTE: The motion sensor will need to completely warm up (90 seconds) before beginning the setup process.



- Perform a “walk test” to adjust the sensor coverage area. Walk in an arc across the front of the motion sensor (A).
- Watch the light. The light will come on indicating motion has been detected.
- Stop, wait for the light to turn off, and then begin walking again.
- Continue this process until the detection zone has been established.
- Adjust the sensor up, down, or side to side to change the motion sensor (A) detection zone to your desired coverage area.
- The sensor will automatically switch from Test mode to Auto sensing mode, after it no longer detects motion for more than 2 minutes.



Operation (continued)

5 Adjusting the HI/LO Light Level

HI level security lighting and LO level accent lighting.

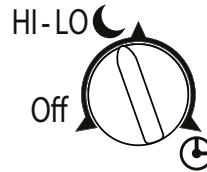
Off HI-LO feature is off. Works with motion sensor after dark at 100% brightness.

 **Dusk-to-dawn timer:**
Lights will come on automatically at dusk at approximately 25% brightness and stay on until dawn. Lights will come on at 100% brightness when motion is detected after dark. At dawn, the lights will shut off completely.

 **(Timer Mode):**
The “Seasonally Adjusted Timer” will turn on the lights at 25% brightness at dusk and then turn them off in the middle of the night hours. This is calculated automatically by the sensor. The lights will come on at 100% brightness when the sensor detects motion after dark.



NOTE: If the light or bulbs are not dimmable, the HI-LO function will automatically be turned off by the sensor, even if the knob is turned to one of the HI-LO settings. This replacement motion sensor may not be suitable for all light fixtures in the market, such as metal halide or high pressure sodium lights.



6 Adjust the Dusk Learn

If desired, you can set the level of darkness at which the sensor becomes active and at which the HI-LO feature comes on in the “LO” accent mode.

- ☐ **Press once:** To learn the current level of darkness and set this as your new “Dusk” level.
- ☐ **Press twice within 5 seconds:** Back to factory default setting (+/- 5 LUX)
- ☐ **Press and hold the button more than 5 seconds:**
The unit will enter or exit the permanent TEST mode (Store fixture test mode).
 - ☐ Lamp flashes 3 times = Store test mode
 - ☐ Lamp flashes 1 time = Back to normal function



Operation (continued)

7 Adjusting the Time

ECO mode:

- The motion sensor lighting is set to minimize power usage. Lights turn on with motion for 10 seconds and continue to stay on as long as motion is detected. Lights will dim to warn that lights will be shutting off soon.

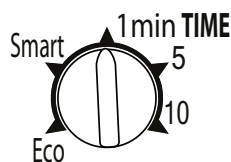
SMART mode:

- The sensor learns from your behavior to automatically adjust the time.

For example, after multiple detections in a short period, motion sensor automatically extends to the maximum time.

ON-TIME:

- 1 min, 5 min, or 10 min. Lights stay for the time set, after motion is no longer detected.

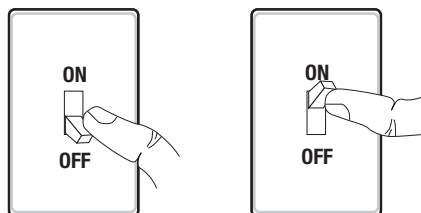


8 Using Manual Override Mode

Manual mode overrides the motion sensor and “ON-TIME” control so the lights will operate in “ON” mode at full brightness. This feature only works at night for 6 hours.

The motion sensor will reset to motion sensing mode. Manual mode can be toggled on and off using a wall switch.

- To manually turn the lights “ON”, turn the light switch OFF and back ON again between 0.2 seconds to 1.5 seconds.
- To cancel the manual override mode, turn the light switch OFF and back ON again between 0.2 seconds to 1.5 seconds.



Turn the light switch Off and back On again within 0.2 to 1.5 seconds.



NOTE: If the power to the light fixture is off for more than 5 seconds, allow the motion sensor to warm up prior to switching to manual mode.

Care and Cleaning

- To prolong the original appearance, clean with water and soft, damp cloth only.
- Do not use paints, solvents, or other chemicals on this light fixture. They could cause a premature deterioration of the finish. This is not a defect in the finish and will not be covered by the warranty.
- Do not spray with a hose or power washer.

Troubleshooting

Problem	Possible Cause	Solution
The light will not come on.	□ The light switch is turned off. □ The fuse is blown or the circuit breaker is turned off. □ Daylight deactivation (photocell) is in effect. □ The circuit wiring is incorrect, if this is a new installation. □ The motion sensor is aimed in the wrong direction.	□ Turn the light switch on. □ Replace the fuse or turn the circuit breaker on. □ Recheck after dark. □ Verify the wiring is correct. □ Re-aim the motion sensor to cover the desired area.
The light comes on during the day.	□ The motion sensor may be installed in a relatively dark location. □ Dusk Learn was set at day condition.	□ The light fixture is operating normally under these circumstances. □ Reset the dusk learn button by pushing once at the desired level of darkness, or put back in the factory setting by pushing the dusk learn button twice within 5 seconds.
The light comes on for no apparent reason.	□ The motion sensor may be sensing small animals or automobile traffic. □ The HI-LO switch is set to Dusk-to-Dawn or Dusk Timer mode.	□ Re-aim the motion sensor. □ The light fixture is operating normally under these circumstances.
The lights turn off too late in Dusk-to-Dawn setting.	The light fixture may be installed in a relatively dark location.	Reset the light level (LUX) at which the sensor operates with the dusk learn button. This will allow you to reset the outside light level at which the motion sensor becomes active and the HI-LO feature operates.

Troubleshooting (continued)

Problem	Possible Cause	Solution
The lights stay on continuously.	□ A lamp is positioned too close to the motion sensor or pointed at nearby objects that cause heat to trigger the motion sensor. □ The motion sensor may be picking up a heat source like an air vent, dryer vent, or brightly painted, heat-reflective surface. □ The motion sensor is in manual mode. □ The light fixture is on the same circuit as a motor, transformer, or fluorescent bulb.	□ Reposition the lamp away from the motion sensor or nearby objects. □ Turn the light switch that operates the fixture Off and back On again within 0.2 to 1.5 seconds. □ Install the light fixture on a circuit without motors, transformers, or fluorescent bulbs.
The lights flash on and off.	□ Heat or light from the lamp head may be turning the motion sensor On and Off. □ Heat is being reflected from other objects and may be turning the motion sensor on and off. □ The motion sensor is in "TEST" mode and warming up.	□ Reposition the lamp head away from the motion sensor. □ Reposition the motion sensor. □ Flashing is normal under these conditions.



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Retain this manual for future use.