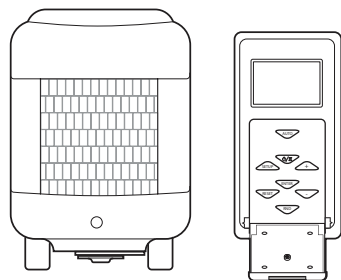


USE AND CARE GUIDE

DAYLIGHT ADJUSTING INDOOR DIGITAL TIMER WITH MOTION SENSOR



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THANK YOU

We appreciate the trust and confidence you have placed in Defiant through the purchase of this daylight adjusting indoor digital timer with motion sensor. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Defiant!

Safety Information

FCC NOTE

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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. This Class B digital apparatus complies with CAN ICES-3(B)/NMB-3(B). 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 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.

WARNING: RISK OF ELECTRIC SHOCK:

- Shut off the power at the fuse box or circuit breaker before installation.
- Do not use in wet locations.
- Use indoors only.

WARNING: RISK OF ELECTRIC FIRE:

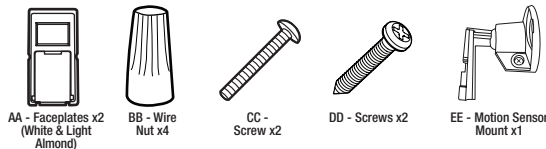
- Do not use to control appliances that contain heating elements such as cooking appliances, heaters, and irons.
- Do not exceed electrical ratings.
- Do not use to control receptacles.
- Use only copper wire with this device.

CAUTION: High Voltage - Disconnect the power supply before servicing.

NOTE: If you are unsure or unclear about this installation or if the wires in your box do not match the manual (not all switch boxes have neutral wires), contact a qualified licensed electrician. Install this device in a standard wall box or ceiling box.

TIMER RATINGS
120 VAC, 60 Hz
960W, 8A General Purpose / Resistive
960W, 8A Tungsten
1200W, 10A Ballast
1HP Motor

Hardware Included



Changing the Faceplate

This device includes a light-almond faceplate. To switch faceplates, follow the steps below.

- Gently remove the white faceplate using a flathead screwdriver. Starting at the top left corner, gently pry the faceplate loose, working around the edge until it pops off.
- Find the light-almond faceplate in the package. Place the new faceplate into position and carefully push until it snaps into place.

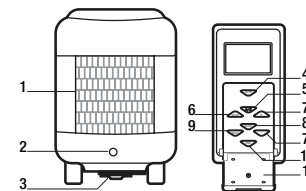
Preparing for Multi-Switch Installations

When combining controls in a wall box, remove all the inner side sections prior to making the electrical connections.

- Use pliers to bend the side section up and down until it breaks off.
- Repeat the process for each side section to be removed.



Product Description



MOTION SENSOR

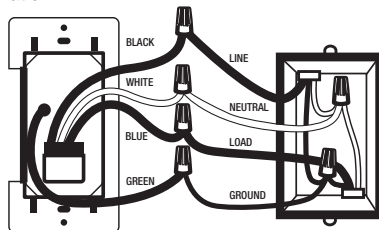
1. **Motion Sensor (PIR):** Face the motion sensor towards the area where you wish to detect motion. This motion sensor is designed to only detect motion when it is dark outside. The motion sensor has a 120° motion detection coverage and 30 ft. distance range. It controls the timer receiver up to 80 ft. away.
 2. **Sensor Light Indicator:** Turns red when the motion sensor detects motion.
 3. **Slide Switch:** After testing is finished in Test Mode (T), set this switch to Auto mode (A) for automatic control of the motion sensor. The motion sensor will override the timer programming after dusk.
 - Test Mode (T): Works in both day or night time. When motion is detected, this mode triggers the timer to turn on for 10 seconds. Use this to ensure your motion sensor and timer work properly together.
 - Auto Mode (A): Works only at night. When motion is detected, this mode triggers the timer to turn on for the programmed countdown time you set on the timer. Use this after you have confirmed the motion sensor and timer are working properly.
- TIMER**
4. **AUTO button:** Press once to activate the timer after programming is complete or turn off random mode.
 5. **ON/OFF button:** Turns the timer ON/OFF.
 6. **SETUP button:** Press once to set the calendar/clock. Press twice to set or change programming.
 7. **“+” and “-” buttons:** Press to scroll through menu options.
 8. **Enter Button:** Press to confirm indicated settings.
 9. **Reset button:** Press and hold for three seconds to reset the system.
 10. **RND button:** Press once to activate the Random feature.
 11. **Timer Door:** Close after programming. Press to turn ON/OFF (timer override)

Installation

1 Timer installation (see Figure 1)

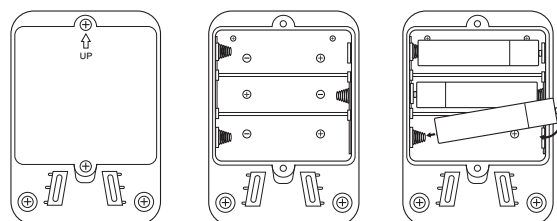
- Disconnect the power at the circuit breaker or fuse box, and remove the existing switch.
- Connect the wires of the timer to the wall box as shown, using the wire nuts (BB).
- Connect the hot/live wire from the line to the black wire from the timer.
- Connect the hot/live wire from the load to the blue wire from the timer.
- Connect the ground wire to the green wire from the timer.
- Connect the neutral wire to the white wire from the timer. Often the neutral (white) wire can be found in the back of the wire box connected with a wire nut. There may be several neutral wires bound together. Add the neutral to all neutral wires bound together making sure the wire nut is tight.
- Ensure that all wire nuts (BB) are secure. Tuck the wires into the wall box, leaving room for the timer.
- Mount the timer to the wall box using the screws (CC). Be careful not to crush any wires.
- Reinstall your wall plate.
- Turn the main power ON at the circuit breaker.
- Push the timer door to verify your light or device turns on. Push the timer door again to turn your light or device off.

Figure 1 - Typical Wiring Schematic for Timer Installation



2 Installing batteries in the motion sensor

- On the back of the motion sensor, remove the two small battery cover screws and gently remove the plastic back.
- Install 3 x AA batteries (not included) following the polarities marked within the battery housing.
- Replace the plastic back and tighten the two small screws, being careful not to over-tighten. Ensure there are no gaps when the plastic back is fully secured.



3 Testing the motion sensor

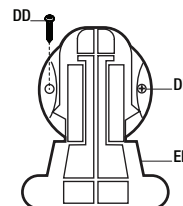
- Put the motion sensor slide switch (3) to “T” (Test mode). A red indicator light will come on when it detects motion. Your wired light or device should now turn on when motion is detected (as long as your timer is installed and wired correctly).
- After testing the motion sensor with your timer, switch the slide switch (3) to “A” (Automatic mode). The motion sensor will now match what is programmed within your timer (see Operating Instructions).



4 Mounting the motion sensor

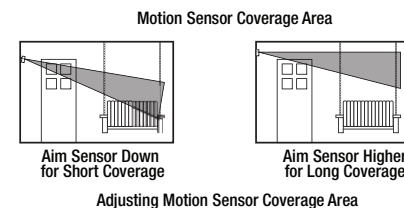
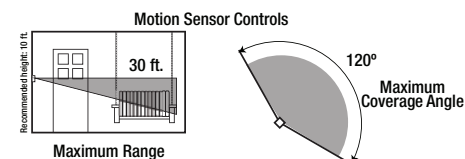
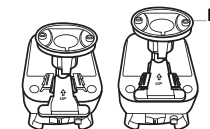
NOTE: Choose a location where the motion sensor has a clear view of the entire area you wish to detect motion. Mount the motion sensor so that it may be angled directionally, allowing for the desired coverage. Ensure there is room both above and to sides of where you plan to mount the sensor so it may be adjusted. Recommended height is 10 ft.

- Install the motion sensor mount (EE) using the mounting screws (DD) in a location where you wish to detect motion. Ensure that the UP arrow is facing upwards when installing. Ensure that the motion sensor mount (EE) is installed securely, but do not over-tighten the mounting screws (DD).




NOTE: The detector is more sensitive to motion across the front of the sensor. It senses heat in motion and possible heat sources that change temperature quickly. Therefore, to avoid false triggering, avoid placing the sensor where it will be aimed at air conditioners, heaters and other sources of heat or cold.

- Gently slide the motion sensor onto the motion sensor mount (EE) until it clicks into place. Ensure that both the motion sensor and the mount are facing upwards where it says “↑ UP”.
- Gently adjust the motion sensor to where you wish it to detect motion.



Operating Instructions

1 Setting up the timer for the first time

 **NOTE:** This timer will automatically return to the clock mode if a button is not pushed for 20 seconds. Push the SETUP button (6) once to return to program mode if this happens.

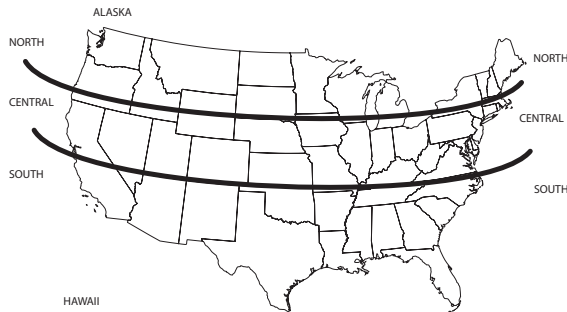
- Remove the protective film from the screen.
- Using the tip of a pencil, gently press and hold the RESET button (9) until you see the word "RESET" scroll across the screen. Release the button and "12:00 AM" will begin to flash.
- Press the SETUP button (6) and "CAL" will begin to flash. Press the Enter button (8) to begin setting the calendar, and the year will begin to flash.
- Press the "+" or "-" button (7) to set the current year. Press the Enter button (8), and the month will begin to flash.
- Press the "+" or "-" button (7) to set the current month. Press the Enter button (8), and the day will begin to flash.
- Press the "+" or "-" button (7) to set the current day. Press the Enter button (8) to confirm, and "CLK" will begin to flash. Press the Enter button (8) once more to begin setting the current time (clock), and the hour will begin to flash.
- Press the "+" or "-" button (7) to set the current hour. Press the Enter button (8) when the hour and AM/PM are correct, and the minute will begin to flash.
- Press the "+" or "-" button (7) to set the current minute. Press the Enter button (8) to confirm, and "DST" will begin to flash. Press the Enter button to begin setting the Daylight Savings feature.
- Press the "+" or "-" button (7) to turn Daylight Savings time ON/OFF. Press the enter (7) button to confirm.

 **NOTE:** Choose DST ON if your local area observes Daylight Savings time. The timer will automatically adjust backwards and forwards an hour. Choose DST OFF if your local area does not observe Daylight Savings time.

2 Setting the time zone

- View the map below and determine which zone best fits your location.
- "ZONE" will be flashing on the screen. Press the Enter button (8) to begin setting your time zone, and "NOR" will begin to flash. Use the "+" or "-" button (7) to select the zone identified. Press the Enter button (8) to confirm, and "DAWN" will be displayed with an approximate dawn time for your area.
- Press the "+" or "-" button (7) to set your current dawn hour. Press the Enter button (8) to confirm.
- Press the "+" or "-" button (7) to set your current dawn minute. Press the Enter button (8) to confirm, and "DUSK" will be displayed.
- Use the same process to set the dusk hour and minute, and "SAVE" will be displayed.
- Press the Enter button (8) to save the current date and time information.


Setting the time zone



3 Operating your motion sensor with the timer.

- "PAIR" will begin to flash. Press the Enter button (8) to continue.
- "A" will be flashing. If your motion sensor is already working with your in-wall timer, press the Enter button (8). If the motion sensor is not working with your timer, follow these steps:
 - Switch your motion sensor slide switch (3) to Test Mode "T".
 - Your timer will now start to pair with your motion sensor.
 - Once the timer reads "DONE" on the screen, it has successfully paired to the motion sensor. Press the Enter button (8) to continue.

 **NOTE:** If your timer does not read "DONE" then switch your motion sensor switch (3) to Auto Mode (A) and then back to Test Mode (T).

 **NOTE:** Resetting your timer does not un-pair the timer and motion sensor.

- "SNSR" will begin to flash. Press the Enter button (8) to continue.
- Choose between 1 to 30 minutes for the motion sensor timeout feature. This feature will start a countdown time whenever the motion sensor detects movement. The light or device connected to the timer will stay on for the amount of time you choose in this step.


4 Programming ON/OFF days


- Press the SETUP button (6) twice to begin programming ON/OFF days, and "P1 ON" will display.
- Press the Enter button (8) once, and "SET" will display. Press the Enter button (8) again to begin setting the ON time, and "PRG" will be displayed with the days of the week flashing.
- Press the "+" or "-" button (7) to select the day(s) you want this program to turn the timer ON:
 - S, S (Saturday and Sunday)
 - M, T, W, Th, F (weekdays only)
 - S, M, T, W, Th, F, S (individual days)
 - T, Th (Tuesday and Thursday)
 - M, W, F (Monday, Wednesday, and Friday)
 - S, M, T, W, Th, F, S (default: all days of the week)
- Press the Enter button (8) to confirm the setting.

5 Programming ON/OFF times

There are three options to choose from when selecting the program ON time. Press the "+" or "-" button (7) to scroll through these options: DAWN, TIME (for custom times), or DUSK. If you chose to turn the timer ON at DAWN or DUSK, the timer automatically enters the correct time and moves to "P1 OFF".

- Press the Enter button (8) to confirm the desired setting. If you have selected TIME, the hour will begin to flash.
- Press the "+" or "-" button (7) to set the hour you want the timer to turn ON. Press the Enter button (8) when the hour and AM/PM are correct, and the minute will begin to flash.
- Press the "+" or "-" button (7) to select the minute you want the timer to turn ON. Press the Enter button (8), and "P1 OFF" and "PRG" will be displayed. Follow the previous steps to set the OFF days and times.
- Once finished, "Save" will begin flashing. Press the Enter button (8) to save this program, and "P2 ON" will be displayed, with P2 flashing. If you need additional programs, press the Enter button (8) and repeat the steps above to set the next program ON/OFF times. When you are finished, press the AUTO button (4) to complete the programming, and ensure the timer display screen reads "AUTO".

 **NOTE:** All programs are active all of the time. If you have multiple programs entered for the same days, the timer may act erratically.

 **NOTE:** When completing steps 1-4, the procedures must be followed through, and you must press the Enter button (8) when "Save" appears on the screen.

6 Using the random feature

The random feature will turn the lights ON and OFF using the programmed times + or - 30 minutes, giving the house a more lived-in appearance while the occupant is away.

- Push the RND button (10) to activate the random feature. The screen will change from AUTO to RDM.
- Push the AUTO button (4) to de-activate the random feature and return the timer to its current programming.

7 Reviewing previously entered programs

- Press the SETUP button (6) twice, then press the "+" or "-" button (7) to scroll through the previously entered programs.
- Press the AUTO button (4) when you are done reviewing.

8 Deleting previously entered programs

- Press the SETUP button (6) twice, then press the "+" or "-" button (7) to scroll to the program you wish to delete. Press the Enter button (8) and "SET" will display.
- Press the "+" or "-" button (7) until the screen reads "DEL," then press the Enter button (8).
- The program is now deleted, and you may press the "+" or "-" button (7) to select another program for deletion following the steps above. Press the AUTO button (4) when you have completed deleting all desired programs.

9 Activate manual override operation

- To bypass the timer programming, press and hold the AUTO button (4) until the display reads "MANU".
- The timer operates as a manual wall switch in this mode. Push the timer door to turn ON/OFF your wired light or device.
- Press the AUTO button (4) to return the timer to AUTO mode and use your previously programmed settings.

Troubleshooting

Issue	Possible Cause	Solution
The light or device does not come on.	The switch on your light or device is turned off.	Ensure your light or device connected to the timer is turned ON.
	The circuit breaker or fuse is turned off.	Verify that the circuit breaker or the fuse is turned on.
	Does not respond immediately after installation.	Wait for the initialization grace period after turning the motion sensor from Test (T) to Auto (A) mode.
	There are dead batteries in the motion sensor.	Try replacing the batteries in the motion sensor.
	If using a light, the bulb may be defective.	Change the light bulb and try to trigger the motion sensor again.
	It is not dark enough outside for the motion sensor to start triggering the timer.	Wait until it becomes darker outside and try triggering the motion sensor.
	The signal from the motion sensor is being blocked or the motion sensor is out of range.	Ensure no metal objects are blocking the signal or try repositioning the motion sensor.
The light or device does not turn off.	The timer is in manual mode and turned on.	Press the Auto button (4) and ensure the timer LCD screen reads AUTO.
	Timer programming is set for light or device to turn on and stay on.	Check your timer programming to ensure it is programmed for the correct times you wish your light or device to be on.
	Heating or cooling elements (such as air vents, appliances, etc.) are causing false triggering at the motion sensor location.	Remove these hot or cold elements if possible, or move the motion sensor away from them.
Motion sensor is triggering light on during the day.	The motion sensor is in too dark of a location.	Move the motion sensor to a location with more natural light.

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