

ModelMinder™ Installation Instructions



1. Preliminary

- a. Needed to install ModelMinder:
 - i. Electric or Cordless Drill
 - ii. #1 Flat-Blade Screwdriver
 - iii. #2 Phillips-Blade Screwdriver
 - iv. 1-1/4" to 1-1/2" Paddle Bit or 1-1/4" to 1-1/2" hole saw
 - v. 6 or 10 - Wire Nuts (included)
 - vi. 4 - 1" Drywall Screws (included)
 - vii. Electrical Tape

- b. Before installing ModelMinder, make sure the main breaker is ON and TURN ON ALL LIGHTS IN THE APARTMENT or house.

- c. Determine which circuits are to be controlled by turning on and off each breaker.

Mark these breakers for ModelMinder control wiring to be completed in Step 3.

2. Mounting

- a. Select a clear area on the wall directly below the breaker panel to mount the ModelMinder enclosure. **(Figure 2.1)**

- b. Cut hole in sheetrock large enough to feed control wiring through to breaker panel. Usually 1-1/4" is sufficient.

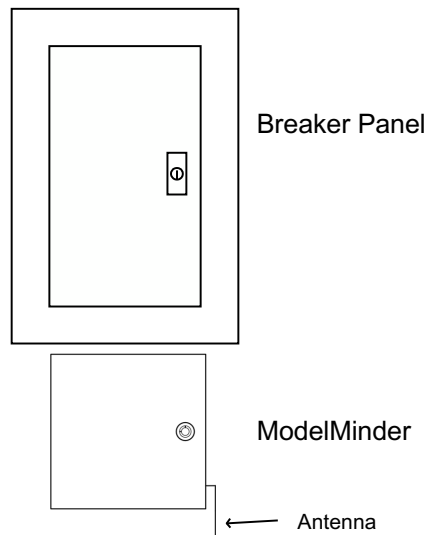


Figure 2.1: General Mounting Location

- c. **TURN OFF MAIN BREAKER IN PANEL BEFORE PROCEEDING.** Knock out plug in breaker box to bring the control wiring in from the ModelMinder. [*CAUTION: Even though the main breaker is off, the incoming leads are still powered in the breaker box*]

- d. Tape all ends of control wiring, and input power wire together from the ModelMinder and fish wires through into breaker panel. (**Figure 2.2**)

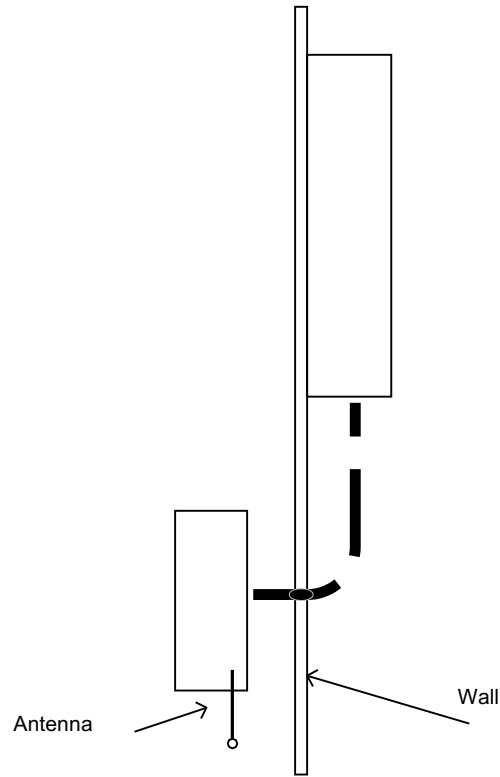


Figure 2.2: General Wiring

- e. Secure ModelMinder to the wall using sheetrock screws making sure antenna wire is exposed. (**Figure 2.3**)

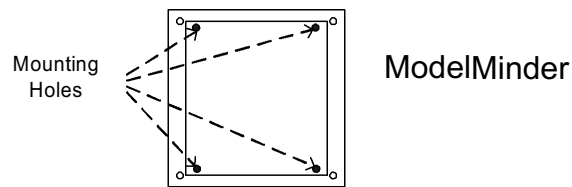


Figure 2.3: Mounting

3. Wiring

- a. MAKE SURE MAIN BREAKER IS STILL OFF.
- b. Disconnect load (BLACK) wire from each marked breakers (from previous *Step 1b*) one at a time and insert one side of color-coded ModelMinder control wire in the breaker where the load wire was removed. (**Figure 3.1**)

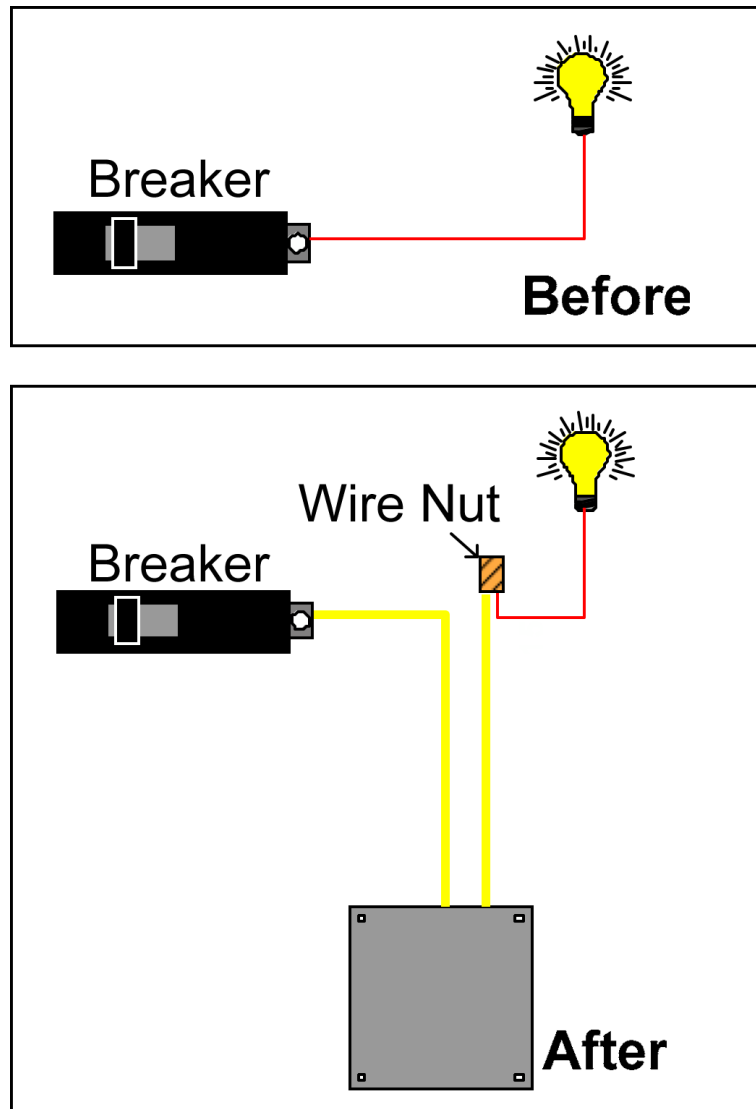


Figure 3.1: Lighting Load Wiring

- c. Using one of the included wire nuts, connect the *original* load wire that was in the breaker to the other side of the same color-coded ModelMinder control wire. (Figure 3.2)
- d. Repeat Steps 3b and 3c until all designated circuit breakers are connected to the color-coded ModelMinder control wires. [NOTE: ANY color-coded pair may be used for ANY load.]

ModelMinder Power Connection with a Standard Breaker (Figure 3.2)

- e. Connect the BLACK power wire from the ModelMinder to the breaker side of any of the controlled circuits [Note: Must be 115VAC only]. (Figure 3.2)
- f. Connect the white input power wire from the ModelMinder to the panel neutral. (Figure 3.2)
- g. Check all wiring. (Figure 3.5)
- h. Turn on main breaker. The ModelMinder will power up, as indicated by the red LED and the display indicating 15:00, which is the default number of minutes for the lights to turn on when activated. To confirm correct wiring, move the Override Key to the Override position. All lights should turn on.

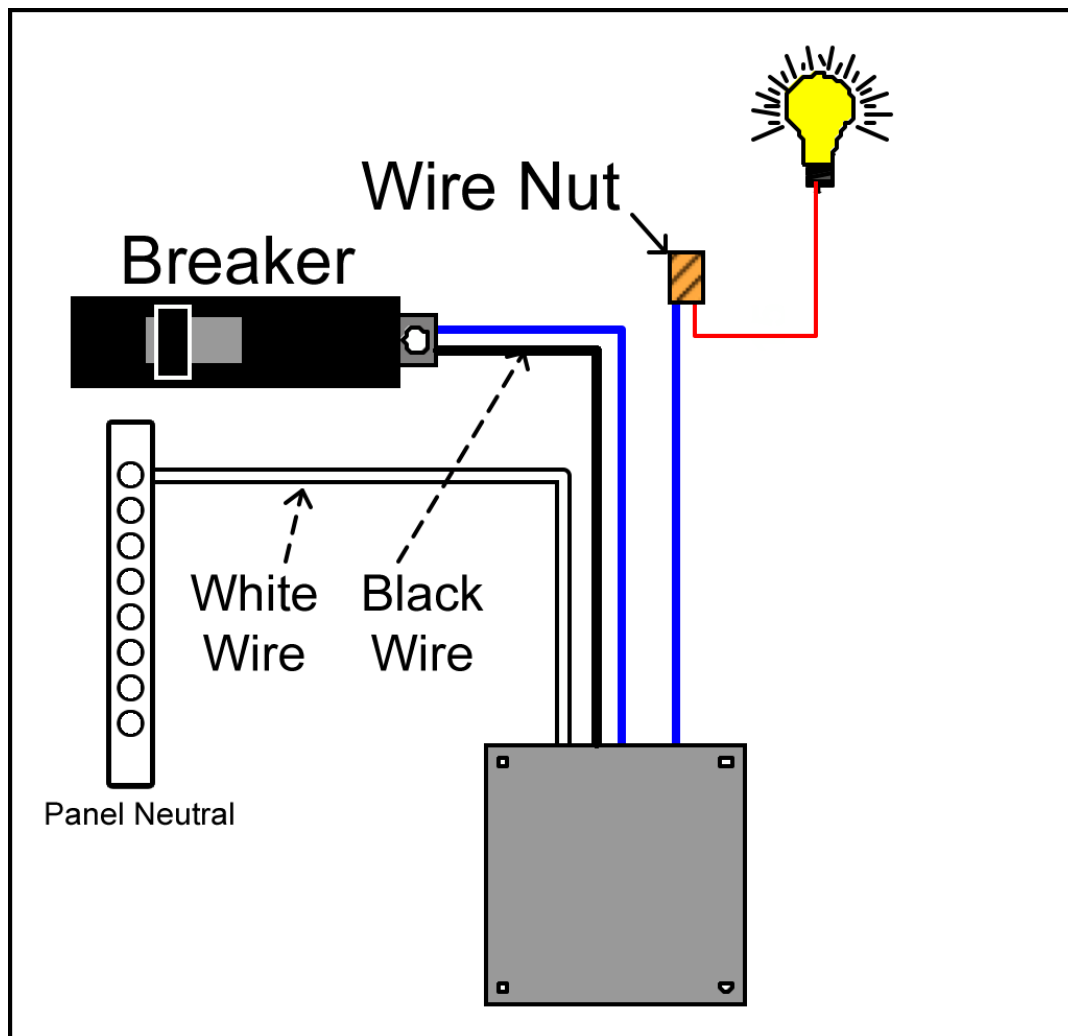


Figure 3.2: Input Power Wiring

OR

ModelMinder Power Connection with an Arc Fault Breaker (Figure 3.4)

- e. Connect the BLACK power wire from the ModelMinder to the Arc Fault Breaker 'Load Power' terminal [Note: Must be 115VAC only]. (Figure 3.4)
- f. Connect the WHITE (neutral) wire from the ModelMinder to the Arc Fault Breaker 'Load Neutral' terminal. (Figure 3.4)
- g. Connect the coiled white wire from the Arc Fault breaker to the panel neutral bar. (Figure 3.4)

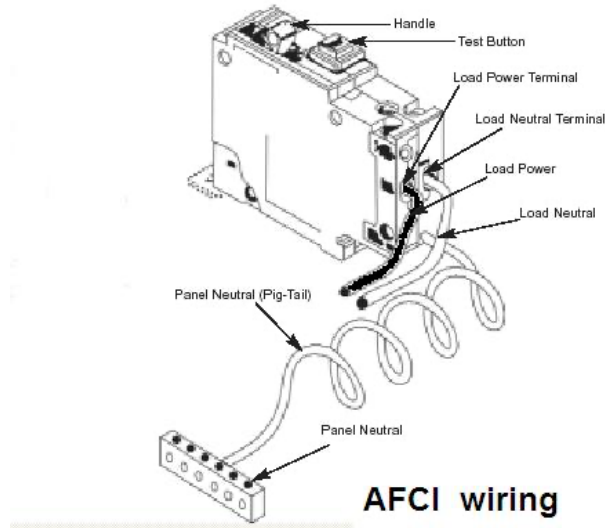


Figure 3.4: Arc Fault Breaker Input Power Wiring

- h. Check all wiring. (Figure 3.5)
- i. Turn on main breaker. The ModelMinder will power up, as indicated by the red LED and the display indicating 15:00, which is the default number of minutes for the lights to turn on when activated. To confirm correct wiring, move the Override Key to the Override position. All lights should turn on.

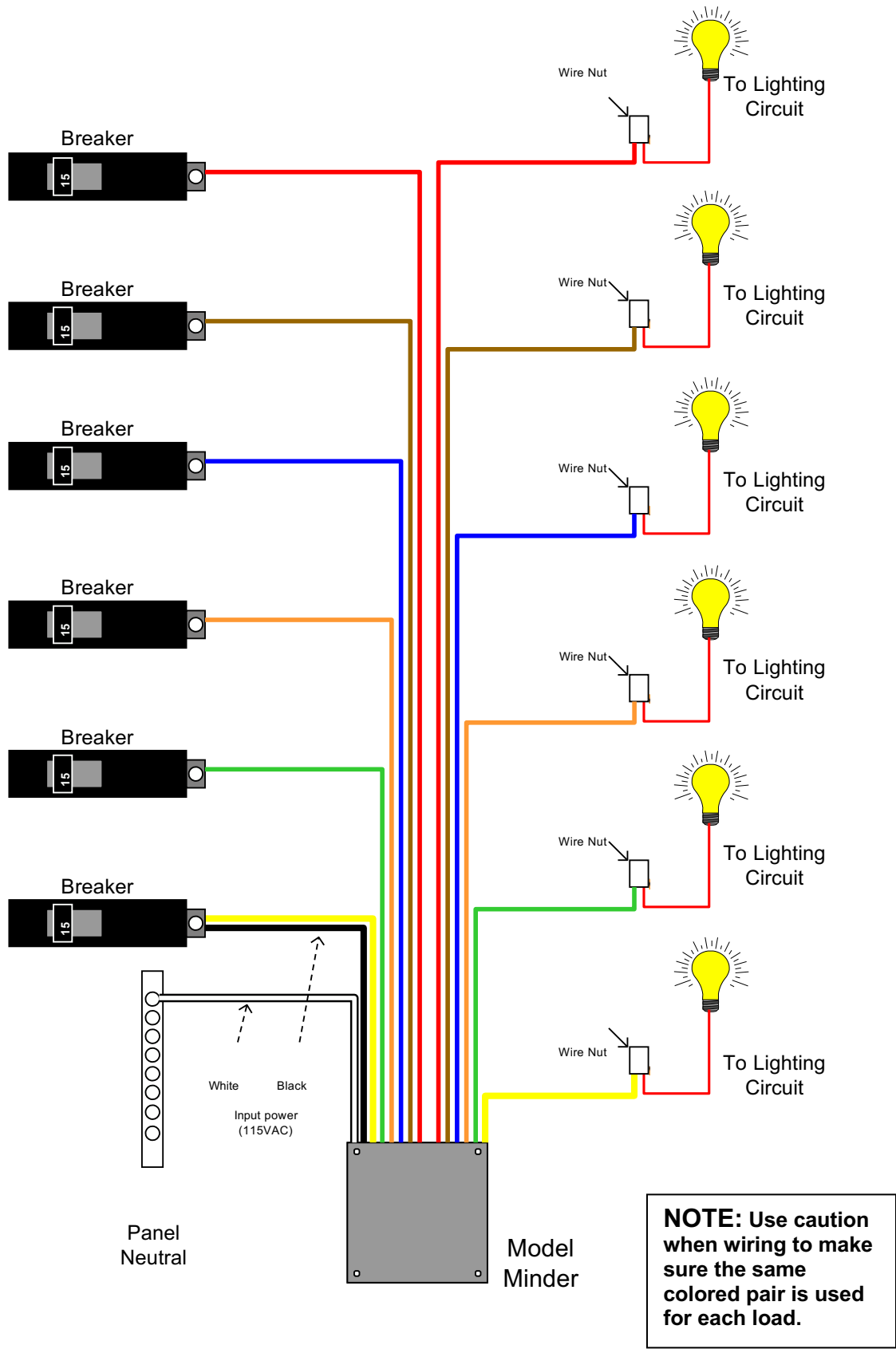


Figure 3.5: Complete Wiring

4. Adjusting the Timer

- a. If an On time for the lights other than 15 minutes is desired, with the **Override Key in Override position**, press the Up or Down buttons to adjust the time. (The time cannot be adjusted during a timed countdown.)

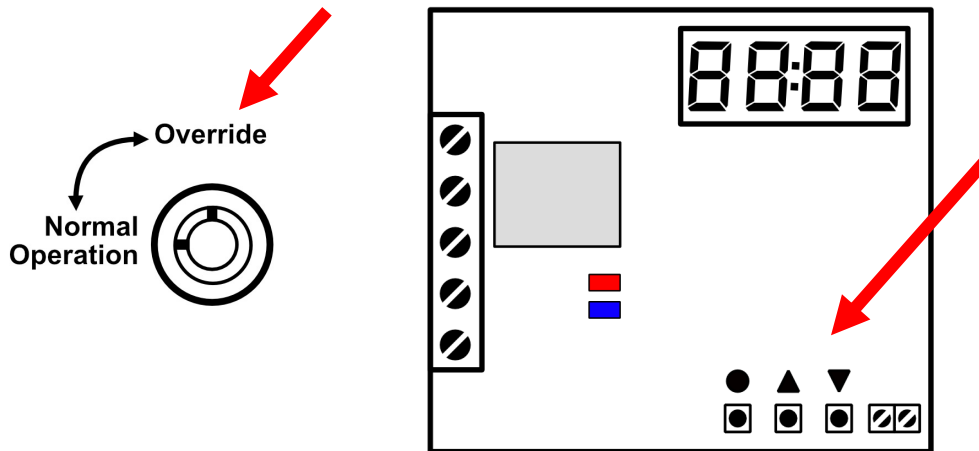


Figure 4.1: Timer Settings

5. Normal Operation and Override Setting

- a. For **Normal Operation** using the Override Key, turn the key to the **NORMAL OPERATION** position. The lighting circuits will come ON when the entry door is opened (or motion is detected) for the pre-determined set time, and then turn OFF).
- b. For **Override Operation** using the Override Key, turn the key to the **OVERRIDE** position. In this mode, the ModelMinder timer will be ignored and the lighting circuits controlled by the ModelMinder will be ON continuously, the display will show ON and the red LED flashes.

While the ModelMinder is in the **OVERRIDE**, ensure that all lights to be controlled are on. *[Make sure to return ModelMinder to Operational Mode after installation is complete]*

6. Sensor / Receiver Pairing (Syncing)

(NOTE: ALL MODELINDERS ARE FACTORY PROGRAMMED PRIOR TO SHIPPING. SKIP TO 6.b.)

THIS STEP IS NECESSARY ONLY FOR REPLACEMENT DOOR SENSORS AND ADDITION OF MOTION SENSORS.)

a. Syncing New Door Sensors and/or Motion Sensors

- i. If a REPLACEMENT Door Sensor or Motion Sensor needs to be installed, the ModelMinder Receiver (blue board in the ModelMinder) will have to be programmed to work with the Door Sensor or Motion Sensor. To complete this task, follow the simple steps below:

ii. [Note: Please read all steps before beginning the programming process.]

1. Make sure the system is powered on. (Red LED on the Timer Module).
2. Remove door transmitter cover, remove the battery, remove the battery saver insulator (clear plastic), then re-install the battery.
3. For easiest installation, do not mount the door transmitter until after pairing.
4. Press the left button (●) on the ModelMinder Receiver.

Once the button has been pressed the “Blue LED” will start blinking.

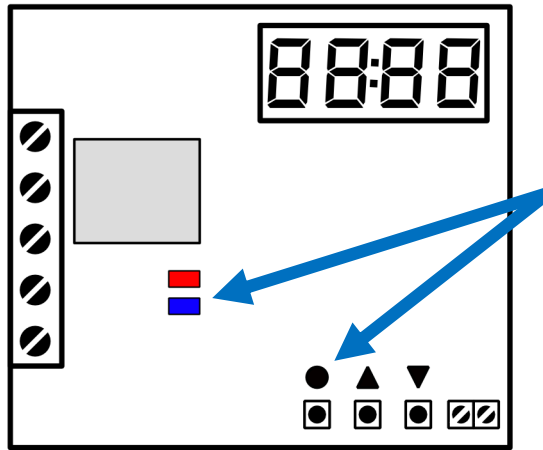


Figure 6.1: Sensor Pairing LED (Blue)

5. Align the door magnet next to the door transmitter. Then, pull the magnet about 2 or more inches away. The door transmit indicator should light and the Blue LED will flash rapidly for a moment. The devices are now synced.
6. Replace the door transmitter cover when finished.
7. Repeat Steps 2 – 4 for each wireless sensor on the system.

b. Mounting & Testing

- i. Using double-sided tape (included) or screw packet (include), install door transmitter module on entry door and magnetic sensor on door trim. (**Figure 6.2**)

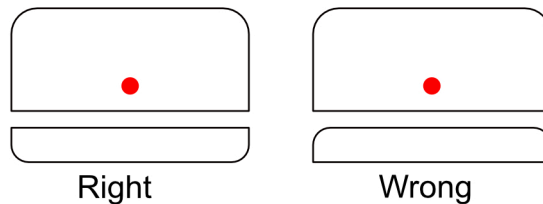


Figure 6.2: Sensor Orientation

- ii. Controlled Lighting circuits should turn on for as long as the timer inside the model minder has been adjusted to whenever the entry door is opened.
- iii. Open the door. The lights will turn on and the countdown timer will start. The lights will turn off when the timer reaches 0:00 and the display will indicate OFF.

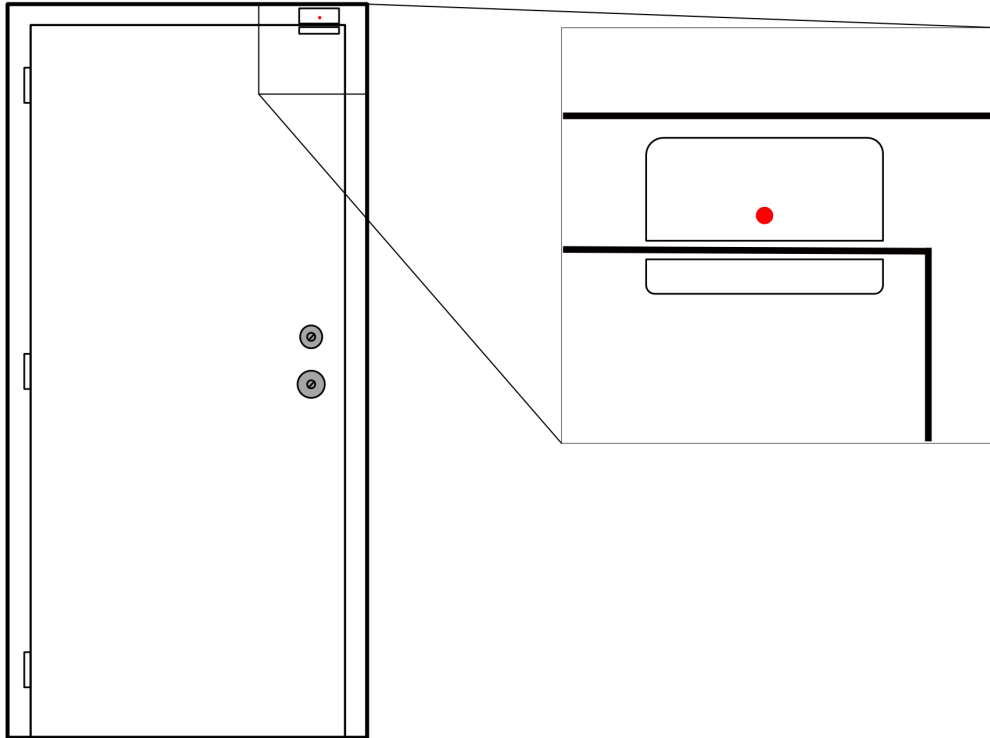


Figure 6.3: Door Sensor Position
Magnet must be with 1.5" of the Transmitter.
Note Orientation.

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