



# FEB100-NT

Free Exit Box - No Touch Sensor



## Product Manual

- Installation Instructions
- Wiring Instructions

**Read and follow all UL and Safety Standards before installing. Refer to the manual and qualified personnel for assistance. DO NOT install this device unless all entrapment and pinch points are eliminated.**

Revision A

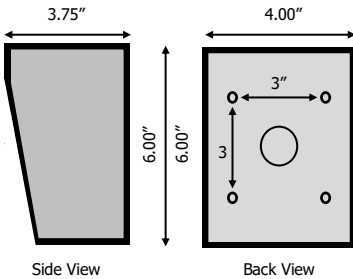
## FEB100-NT OVERVIEW:

The FEB100-NT Free Exit Box uses a "No Touch" Infrared sensor to sense a user and open the door or gate. The built-in time delay makes it ideal for pedestrian gates using magnetic locks or electric strikes. A built-in manual override button can be used if bad weather prevents the infrared sensor from working.

- "No Touch" Infrared Sensor for handsfree operation.
- Manual override for bad weather situations.
- Built-in time delay for pedestrian gates.
- Built-in terminal strip for simple and clean wiring.
- Built-in LED housing for night time use.

## MOUNTING THE SYSTEM:

The system can be mounted on a standard pedestal or directly to a wall or flat surface. A 3/4" knockout is located on the back of the box for conduit connections. Rear mounting holes are available for mounting screws and anchors. Follow all safety warnings and precautions when mounting the system.



**IMPORTANT: Remove the hinged faceplate and electronics before removing the knockout to prevent damage.**

### Pedestal Mounting:

1. Use security screws and lock nuts to securely attach the back box to a gooseneck post.
2. If the mounting holes are not used, fill the holes with a plug or sealant to prevent water from entering the box.

### Wall Mounting:

1. Mount the system to a wall or flat surface. Use appropriate mounting screws or anchors to securely attach the system.
2. Never mount the system to a moving gate, gate panel, or next to a gate that causes vibration to the mounting point. Continuous vibration from moving or slamming gates can cause damage to the unit and is not covered under warranty.



**DO NOT mount operating devices accessible through the gate or in between gate and wall.**

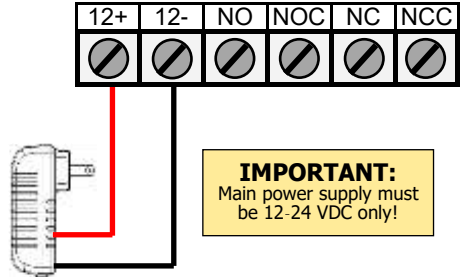


**Mount the system at least 10 feet away from a vehicular gate and its travel.**

## CONNECTING POWER:

The FEB100-NT can only be powered by 12-24 VDC. Use the 12VDC transformer supplied with the unit. To power the unit:

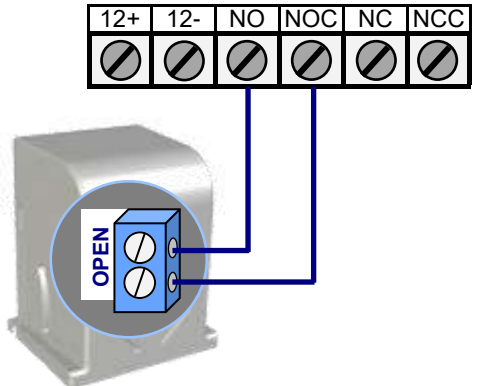
1. Connect 12VDC to the 12+ and 12- terminals. **(Must be 12-24 VDC only - confirm polarity)**
  - 12VDC+ (red wire) to 12+ terminal.
  - 12VDC- (black wire) to 12- terminal.



## CONNECTING A GATE OPERATOR:

To connect the FEB100-NT to a gate operator:

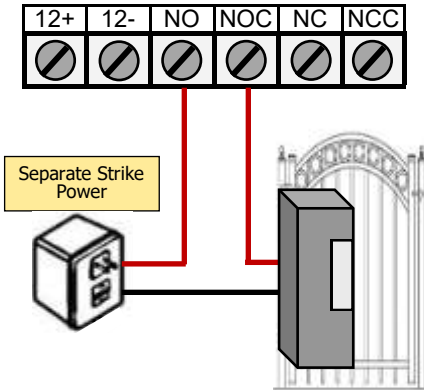
1. Connect two wires from the gate operator Exit/ Open Input and gate operator Common Input:
  - Gate operator Exit/Open to NO terminal.
  - Gate operator Common to NOC terminal.



### CONNECTING AN ELECTRIC STRIKE:

To connect the FEB100-NT to an electric strike:

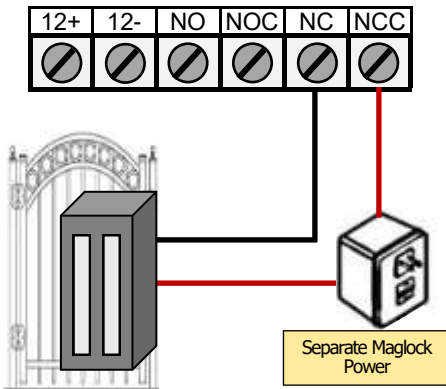
1. Connect two wires from the electric strike to the NO and NOC terminals:
  - One leg of strike power to NO terminal.
  - Same leg of strike power out from NOC terminal to the strike.
  - Other leg of strike power direct to the strike.



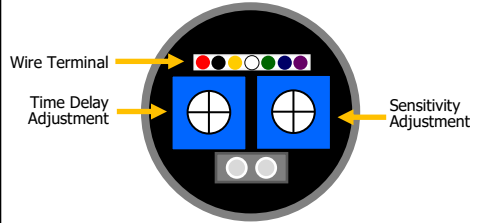
### CONNECTING A MAGNETIC LOCK:

To connect the FEB100-NT to an electric strike:

1. Connect two wires from the electric strike to the NO and NOC terminals:
  - One leg of maglock power to NC terminal.
  - Same leg of maglock power out from NCC terminal to the magnetic lock.
  - Other leg of maglock power direct to lock.



### INFRARED SENSOR OVERVIEW:



### TIME DELAY ADJUSTMENT:

The time delay can be adjusted from 0.5 to 20 seconds using the adjustment dial on the left of the IR Sensor. To adjust the time delay:

1. Turn the adjustment dial clockwise to increase the time delay.
2. Turn the adjustment dial counter clockwise to decrease the time delay.
3. Turning the adjustment dial fully clockwise to the end will put the sensor into a toggle mode.

### TOGGLE MODE SETTING:

The time delay can be turned off and set to a toggle mode. To set the Sensor in toggle mode:

1. Turn the Time Delay Adjustment dial clockwise to the end.

### SENSOR DETECTING DISTANCE ADJUSTMENT:

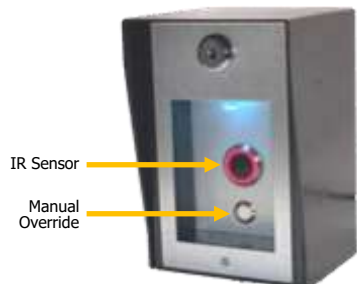
The IR Sensor detecting distance can be adjusted from 5cm to 20cm using the adjustment dial on the right. To adjust the detecting distance:

1. Turn the adjustment dial clockwise to increase the detection distance.
2. Turn the adjustment dial counter clockwise to decrease the detection distance.

### MANUAL OVERRIDE:

The FEB100-NT has a built-in manual override button below the IR Sensor to be used if bad weather prevents the infrared sensor from working.

NOTE: The manual override only provides a momentary action and does not use the time delay or toggle settings of the IR Sensor.



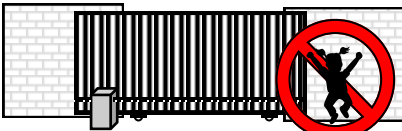
## IMPORTANT USER INSTRUCTIONS:

Automatic gate systems provide user convenience and limit vehicular traffic. Because these systems can produce high levels of force, it is important that you are aware of the potential hazards associated with the system. Potential hazards may include pinch points, entrapment positions, lack of proper pedestrian access, blind spots for traffic visibility.

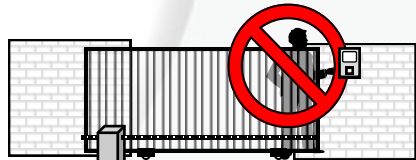
It is the joint responsibility of the designer, purchaser, installer and end user to verify the system is properly configured for its intended use. Be sure that the installer has instructed you on the proper operation of the gate and gate system before use. Be sure the installer trains you about the basic functions of the required reversing devices associated with the gate system and how to properly test them. Reversing devices may include reverse loops, sensing edges, photoelectric cells, inherent reverse detection, and/or other external devices.

## RESTRICTIONS & WARNINGS:

1. A moving gate can cause serious injury or death. Read and follow all installation manuals, reference manuals, and warning label instructions.
2. Vehicular gates are for vehicles only. Pedestrians must use a separate entrance. Keep all pedestrian traffic away from any vehicular gate. No one should cross the path of a moving gate.
3. Never allow children to operate or play with gate controls or to play in the area of a gate system.
4. Access control devices must be placed far enough from moving gates to prevent the user from coming in contact with the gate while operating the controls.
5. All activating devices must be installed in a clear line-of-sight with the gate and its travel.
6. Activating devices must be installed a minimum of 10 feet away from the gate.
7. Outdoor or easily accessible controls shall have a security feature to prevent unauthorized use.
8. Be sure to mount all operating devices clearly out of reach of through gates.
9. **DO NOT install this device unless all potential hazards and pinch points have been eliminated.**



**DO NOT allow children to play near, on or with the gate, gate operator, or any of its controls.**



**DO NOT mount operating devices accessible through the gate or in between gate and wall.**

