

Door/Window Sensor or Occupancy Input / PRX1

The PRX1 is a battery operated remote wireless accessory for use with a single Pelican thermostat. The PRX1 provides one of two functions:

1. Detect the current position of a door or window and wirelessly notify a Pelican thermostat.
2. Connect to the dry contact output of an occupancy sensor and wirelessly report when a space is occupied or unoccupied to a Pelican thermostat.



Caution



Failure to follow these instructions can damage the product or cause a hazardous condition. Disconnect power during the installation of this product. All wiring must conform to local codes and ordinances. We strongly recommend that any installation or servicing be performed by a qualified individual.



WARNING

NEVER INSTALL THE PRX1 IN A METAL ENCLOSURE. WIRELESS SIGNALS CANNOT COMMUNICATE THROUGH METAL.

PRX1 Mounting and Assembly

1. Mount the base in the desired location using screws in the two mounting holes.



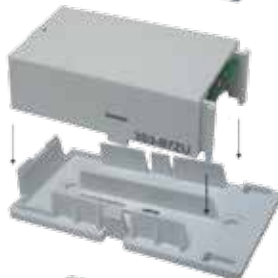
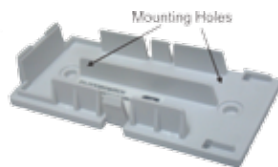
WARNING

NEVER MOUNT THE PRX1 ON A MOVING SURFACE.

2. Line up the Top Cover with the base and snap into place.

3. Install two AA batteries (included) by sliding them into the unit. **NOTE:** Make sure the battery polarity matches the "+" and "-" indicators on the base.

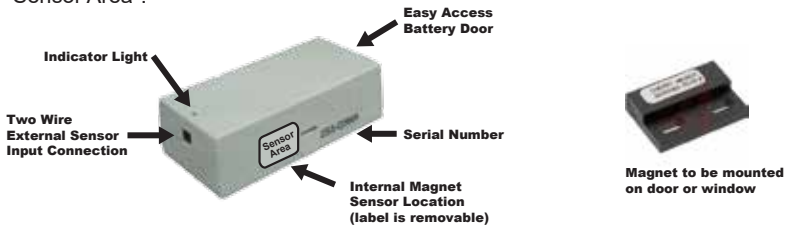
4. Slide the battery door into place.



Mounting Magnet on Door/Window

1 Mounting Instructions

Mount the magnet on the moving part of the door or window. When the door or window is shut the magnet must be within 1/4 inch of the PRX1 and must be within the area labeled "Sensor Area".



2 Testing Magnet Detection

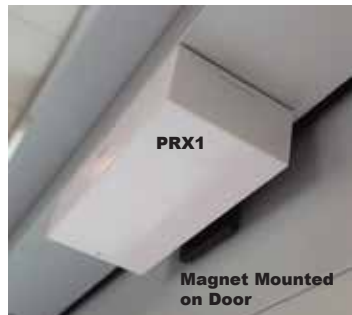
Before permanently mounting the magnet on the door or window you can use the indicator light on the top of the PRX1 to verify it is able to detect the magnet when the door or window is closed.

During the first two minutes of power the PRX1 is in "Test Mode". While in this mode the indicator light will be continuously ON anytime the PRX1 is able to detect the magnet.

To set the PRX1 back into "Test Mode" after being powered for more than two minutes: Hold a magnet with-in the labeled "Sensor Area" of the PRX1 until the indicator light rapidly blinks. Immediately move the magnet away from the PRX1. This will put the PRX1 back into test mode until the magnet state does not change for four minutes.

Example of a properly mounted PRX1 and magnet

Magnet can either be mounted on door with two screws or double sided tape.



3 Configuring Door/Window Sensor

All configuration settings can be made through the Pelican Web App. Each PRX1 will join the Pelican Web App and will be listed both as a new notification and under *Admin > Remote Device Config*.

1. Select "Sensor Setup" or "Configure" for the PRX1 serial number you would like to configure.
2. Select "Door" or "Window" under "Sensor Type".
3. Under "Master" select the thermostat the PRX1 will be directly communicate the door/window position to.

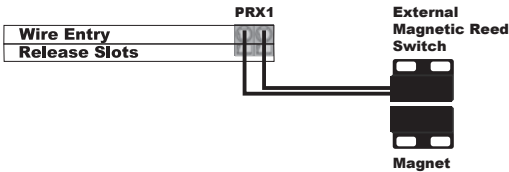
Optional Activation Delay: You can select a specific number of minutes you want the PRX1 to wait before the thermostat changes to the OFF setting after the door/window has been opened.

Optional External Magnetic Reed Switch

In cases where the PRX1 cannot be installed on the door/window jam, the PRX1 can accept a two wire external magnetic reed switch. The PRX1 package includes an external reed switch or you can use any external dry contact switch.

1 Connecting an External Reed Switch

The PRX1's terminals are spring cage connected. The external reed switch's wires should first be stripped to expose 1/4" of wire. Each PRX1 terminal has a release slot and a round hole. Insert the exposed wire end into the round hole and it will be held in place by the internal spring cage. To release use a small 2mm flat head screw driver inserted into the release slot below the wire entry slot.



2 Mounting an External Reed Switch

With the external reed switch wired to the PRX1, simply place the External Reed Switch on a flat non-moving surface above or next to where the magnet will be installed on the door or window.

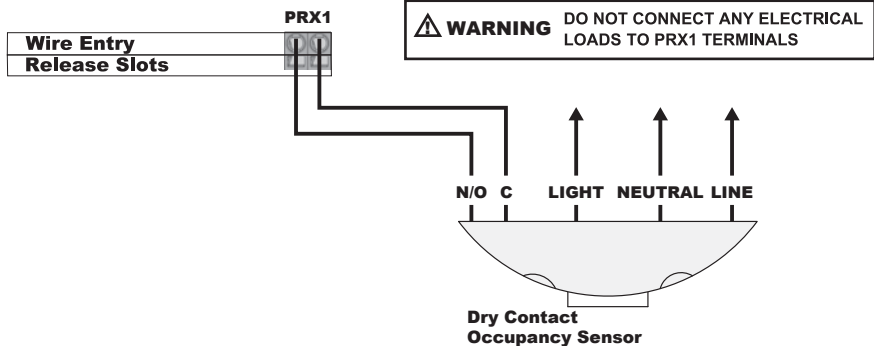
To test if the External Reed Switch is properly detecting the magnet position, follow the instructions found on page two section *Testing Magnet Detection*.

Integrate with an Occupancy Sensor

The PRX1 can accept an occupancy sensor with an external dry contact output to wirelessly notify a Pelican thermostat when a space is occupied or unoccupied. This feature can only be used if the PRX1 is NOT being used as a door/window sensor.

1 Connecting an External Dry Contact Occupancy Sensor

The PRX1's terminals are spring cage connected. Wires for dry contact occupancy sensor should first be stripped to expose 1/4" of wire. Each PRX1 terminal has a release slot and a round hole. Insert the exposed wire end into the round hole and it will be held in place by the internal spring cage. To release use a small 2mm flat head screw driver inserted into the release slot below the wire entry slot.



Configuring Occupancy Sensor Input

All configuration settings can be made through the Pelican Web App. Each PRX1 will join the Pelican Web App and will be listed both as a new notification and under *Admin > Remote Device Config*.

1. Select "Sensor Setup" or "Configure" for the PRX1 serial number you would like to configure.
2. Select "Occupancy" under "Sensor Type".
3. Under "Master" select the thermostat the PRX1 will be communicating the current occupancy state to.

Optional Activation Delay: You can select a specific number of minutes you want the PRX1 to wait before the thermostat switches between occupied and unoccupied mode after the occupancy sensor's relay has changed state.

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www.pelicanwireless.com



Pelican Wireless Systems, 2655 Collier Canyon Rd. Livermore, CA 94551
Phone: 888.512.0490
Email: support@pelicanwireless.com Website: www.PelicanWireless.com