

1122 WIRELESS PIR MOTION DETECTOR

Installation Guide

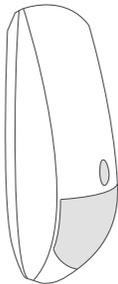


Figure 1: 1122 Wireless PIR Motion Detector

DESCRIPTION

The 1122 Wireless PIR Motion Detector uses passive infrared technology to detect motion in a wide angle lens pattern.

The 1122 also features a wall tamper, internal case tamper, survey LED, low battery indicator, adjustable sensitivity, and pulse count.

Disarm/disable and pet immunity up to 55 pounds are available for panels with firmware Version 172 and higher.

To extend battery life, the 1122 is equipped with a 30-second sleep timer that restarts on every motion detection. This functionality allows the 1122 to wake up after 30 seconds with no motion detected unless disarm/disable is active.

What is Included?

- One 1122 Wireless PIR Motion Detector
- One 3.0 V lithium CR123A battery

1 PROGRAM THE PANEL

When programming the 1122 in the panel, refer to the panel programming guide as needed.

1. In **ZONE INFORMATION**, enter the wireless zone number.
2. Enter the zone name.
3. Select **NT** (Night) as the **ZONE TYPE**.
4. Select the **AREA**.
5. At the **NEXT ZN?** prompt, select **NO**.
6. Select **YES** when **WIRELESS?** displays.
7. Enter the eight-digit **SERIAL#** and press **CMD**.
8. Enter the **SUPRVSN TIME** and press **CMD**.
9. Choose whether or not to enable **DISARM DISABLE** (panel firmware Version 172 and higher only). Selecting **YES** allows the 1122 to be disabled for Night and Exit type zones while the area is disarmed.
10. Choose either **2** or **4** for the **PULSE COUNT**. The pulse count is the number of pulse inputs (trips) the 1122 needs to sense before going into alarm.
11. Choose either **LOW** or **HIGH** for the **SENSITIVITY**. Selecting **LOW** sensitivity may reduce false alarms for installations in harsh environments.
12. Choose whether or not to enable **PET IMMUNITY** (panel firmware Version 172 and higher only).
13. At the **NEXT ZN?** prompt, select **YES** if you are finished programming the zone. Select **NO** if you would like to access additional programming options.

2 INSTALL THE BATTERY

Use only a 3.0 V lithium battery, DMP Model CR123A, or the equivalent battery from a local retail outlet. Keep in mind, when setting up a wireless system, program zones and connect the receiver before installing batteries in the transmitters.

1. Remove the holding screw at the lower end of the 1122 case and gently lift off the cover.
2. Observing polarity, place the battery in the holder and press into place. See Figure 2 for the battery location.

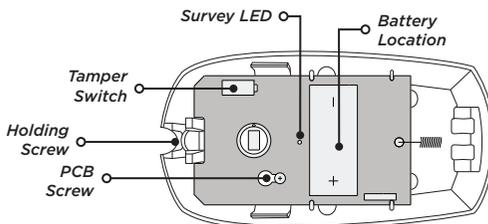


Figure 2: 1122 Housing and PCB

3 SELECT A LOCATION

The 1122 provides a survey capability to allow one person to confirm communication with the wireless receiver or panel while the cover is removed. This allows you to easily determine the best location for the 1122.

Location Dos

- Do locate on a rigid vibration-free surface
- Do locate so that the expected intruder's movement will be across the detection pattern
- Do locate between 4.9 and 8.2 feet high

Location Don'ts

- Don't locate on a surface exposed to moisture
- Don't locate on any area containing excessive metallic surfaces
- Don't locate with direct sunlight, heat sources (heaters, radiators, etc.), or strong air drafts (fans, air conditioner, etc.) in the field of view

Check the Location Using the Survey LED

1. Hold the 1122 in the exact desired location.
2. Press the tamper switch to send data to the receiver and determine if communication is confirmed or faulty. See Figure 2 for tamper switch and LED locations.

✓ **Confirmed:** If communication is confirmed, the survey LED turns on when data is sent to the receiver and off when acknowledgement is received. Repeat this test to confirm five separate consecutive LED blinks. Any indication otherwise means proper communication has not been established.

✗ **Faulty:** If communication is faulty, the LED remains on for several seconds or flashes multiple times in quick succession. Relocate the 1122 or receiver until the LED confirms clear communication. Proper communication between the 1122 and receiver is verified when for each press or release of the tamper switch, the LED blinks immediately on and immediately off.

4 MOUNT THE 1122

Prior to permanently mounting the 1122, check that it is properly communicating with the panel. See the *Select a Location* section.

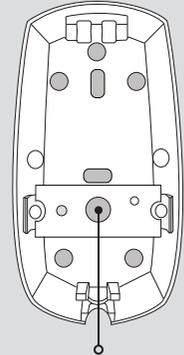
1. Loosen the screw located on PCB and slide the PCB out of the unit.
2. Place the 1122 against the wall and screw through the appropriate mounting holes.

Flat Wall: For flat wall installations, choose from the mounting hole locations shown in Figure 3. Be sure to insert a screw in the tamper mounting hole.

Corner: For corner installations, choose from the mounting hole locations shown in Figure 4. Be sure to insert screws in the tamper mounting holes.

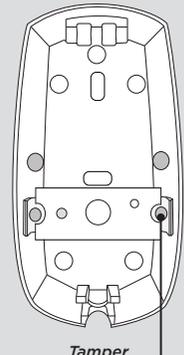
3. Reinstall the PCB back into the unit. Tighten the PCB screw to secure it into place.
4. Place the cover back onto the 1122 and tighten the holding screw back into place.

MOUNTING HOLES



Tamper Mounting Hole

Figure 3: Flat Mounting Hole Locations



Tamper Mounting Holes

Figure 4: Corner Mounting Hole Locations

5 TEST COMMUNICATION TO THE PANEL

Before performing the following tests, ensure the 1122 is programmed in the panel.

PIR Walk Test

Perform a PIR Walk Test to confirm that the 1122 is detecting motion in the necessary areas.

1. At the keypad, enter **8144** (WALK) and select **PIR**.



Note: The 1122 can take up to 3 minutes to begin the PIR Walk Test.

2. The LED will illuminate steadily for 1 second when it detects motion.
3. Walk test the unit to verify the PIR coverage.
4. To manually end the test, reset the panel. The test will expire on its own after 30 minutes.

Wireless Check-in Test

Perform a Wireless Check-in Test to confirm that the 1122 is communicating clearly with the panel.

1. At the keypad, enter **8144** (WALK) and select **WLS**.
2. If the 1122 fails to check in at the keypad, relocate the 1122 or the receiver.

REPLACE THE BATTERY

1. Remove the holding screw at the lower end of the 1122 case and gently lift off the cover.
2. Remove the old battery and dispose of it properly. See Figure 2 for the battery location.
3. Observing polarity, place the new battery in the holder and press into place.



Note: Use only 3.0 V Lithium CR123 batteries.

4. Place the cover back onto the 1122 and tighten the holding screw back into place.

Sensor Reset to Clear LOBAT

When the battery needs to be replaced, a **LOBAT** message will display on the keypad. Once the battery is replaced, a sensor reset is required at the system keypad to clear the **LOBAT** message.

1. On a Thinline keypad, press and hold "2" for two seconds. On a touchscreen keypad press **RESET**.
2. Enter your user code if required.
3. The keypad displays **SENSORS OFF** followed by **SENSORS ON**.

Detection Pattern

The detector detects motion crossing the beam. It is more sensitive detecting motions crossing the beams than moving towards the detector. See Figure 5.

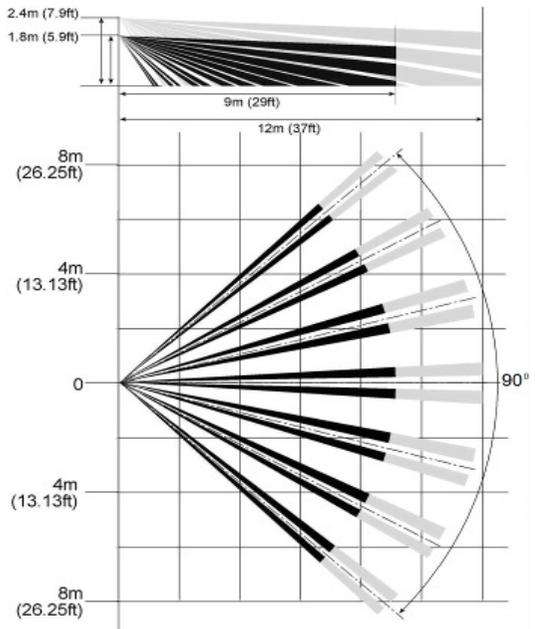


Figure 5: Detection Pattern

FCC INFORMATION

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 antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm (7.874 in.) from all persons. It must not be located or operated in conjunction with any other antenna or transmitter.

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



Note: 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. 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.

Industry Canada Information

This device complies with Industry Canada Licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. *l'appareil ne doit pas produire de brouillage, et*
2. *l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

This system has been evaluated for RF Exposure per RSS-102 and is in compliance with the limits specified by Health Canada Safety Code 6. The system must be installed at a minimum separation distance from the antenna to a general bystander of 7.87 inches (20 cm) to maintain compliance with the General Population limits.

L'exposition aux radiofréquences de ce système a été évaluée selon la norme RSS-102 et est jugée conforme aux limites établies par le Code de sécurité 6 de Santé Canada. Le système doit être installé à une distance minimale de 7.87 pouces (20 cm) séparant l'antenne d'une personne présente en conformité avec les limites permises d'exposition du grand public.

1122 WIRELESS PIR MOTION DETECTOR



Specifications

Battery	
Life Expectancy	3 Years (normal operation)
Type	3.0 V Lithium CR123A
Frequency Range	905-924 MHz
Detection	
Range	90° 40 x 40 feet
Speed	1 to 5 feet/second
Mounting Height	4.9 to 8.2 feet
Transmit Condition	Alarm, Low Battery, Tamper
Color	White
Housing Material	Flame retardant ABS
Dimensions	5" Length x 2.6" Width x 1.5" Depth

Compatibility

XT75 Control Panels

XT30/XT50, XTLplus, and XR Series Control Panels with firmware Version 171 and lower provide basic functionality with the addition of adjustable sensitivity and pulse count.

XT30/XT50, XTLplus, and XR Series Control Panels with Version 172 and higher firmware provide basic functionality with the addition of adjustable sensitivity, pulse count, pet immunity, and disarm/disable.

1122 Version 1.0.0.6 and lower

1100 Series Wireless Receivers and Transmitters
Firmware Version 106 and higher

1122 Version 2.0.0.1 and higher

All 1100 Series Wireless Receivers and Transmitters



Note: If the 3rd digit of the transmitter's serial number is greater than 0, it will be v106 or higher. If the 3rd digit is equal to zero, that transmitter must be removed or replaced with a newer transmitter for the 1122 to function properly.

Certifications

FCC Part 15 Registration ID CCK1122
Industry Canada Registration ID 5251A-1122

Patents

U.S. Patent No. 7,239,236



Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.

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