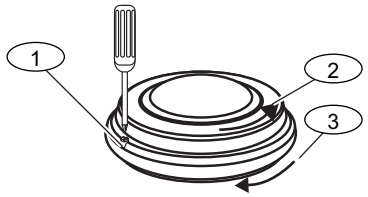
Overview

The ISW-EN1265 is a wireless, ceiling-mounted, four-element passive infrared (PIR) intrusion detector that provides protection from intruders by pyro-sensor array.

1.0 Open the Detector Housing

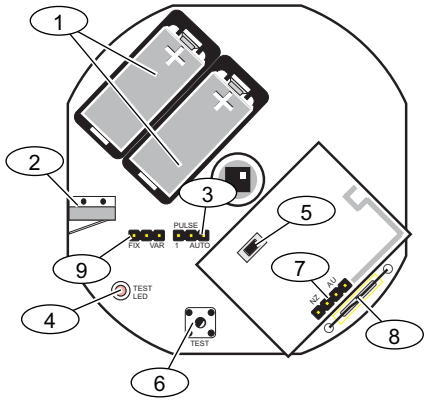
1. Loosen the housing lock screw.
2. Twist the housing cover counter-clockwise to remove the housing cover.
3. Twist the mounting bracket clockwise to remove the mounting bracket.

Figure 1: Removing the Housing Cover and Mounting Bracket



1 - Housing Lock Screw
2 - Housing Cover
3 - Mounting Bracket

Figure 2: Detector Components



1 - Batteries
2 - Tamper Switch
3 - Pulse Count Pins
4 - Test LED
5 - Reset Button
6 - Test Button
7 - Frequency Band Pins
8 - Test Reed Switch
9 - Sleep Time Pins

2.0 Configure the Detector

To configure the detector, place a supplied jumper plug on the appropriate pins.

Refer to *Figure 2* for the location of the Frequency Band, Pulse Count, and Sleep Time pins.

Refer to *Table 1* for a description of each configuration option.

If you change the detectorís configuration settings after initial installation, press the Reset button for the new settings to take effect.

When pressing the Reset button, do not touch the Frequency Band pins. Touching the Frequency Band pins while pressing the Reset button can inadvertently set the detector to the wrong frequency band.

Table 1: Detector Configuration Options

Option	Description/Pin Setting	
Frequency Band	Select the appropriate frequency band for your geographic area.	
	North America (Default): 902 MHz to 928 MHz	
	New Zealand: 921 MHz to 928 MHZ	
	Australia: 915 MHz to 928 MHz	
Pulse Count	**Single Pulse Count (Default):** Use this setting in environments where minor temperature fluctuations occur. Do not use this setting at sites where heat variants cause false alarms.	
	Automatic Pulse Count: Use this setting in environments where temperature fluctuations might cause false alarms.	
Sleep Time	**Variable (Default):** Use this setting in high-traffic environments. If the detector senses motion, it sends an alarm signal and then enters a 180-sec sleep period. If the detector senses motion **before** the sleep period ends, it restarts the 180-sec sleep period.	
	Fixed: Use this setting in normal operating environments. If the detector senses motion, it sends an alarm signal and then enters a 180-sec sleep period. If the detector senses motion **after** the sleep period ends, it sends another alarm signal.	

3.0 Install the Batteries

The detector holds two batteries for extended battery life, but only one battery is required for operation.

When installing or replacing batteries, ensure that the batteries are replaced in new pairs from the same manufacturer.

After inserting the battery, press the reset button to initialize the detector. You must press the Reset button each time a battery is installed.

The detector must stabilize for at least one minute after power-up, at which time the detector is not operational. During this period, the LED blinks twice each second.

The detector supervises the battery.

4.0 Register the Transmitter

To ensure that the detector is supervised by the system receiver, you must register its transmitter with the system receiver. Each detector has a unique factory-programmed identification number. Refer to the receiver, network coordinator or control panel installation instructions for details on registering a transmitter.

1. If necessary, remove the housing cover.
2. When prompted to reset the detector, press the Reset button on the detector.
3. Replace the housing cover.

To ensure correct operation, test the detector after it is registered with the system receiver. To test the detector, activate each of the conditions and ensure that an appropriate response occurs.

5.0 Mount the Detector

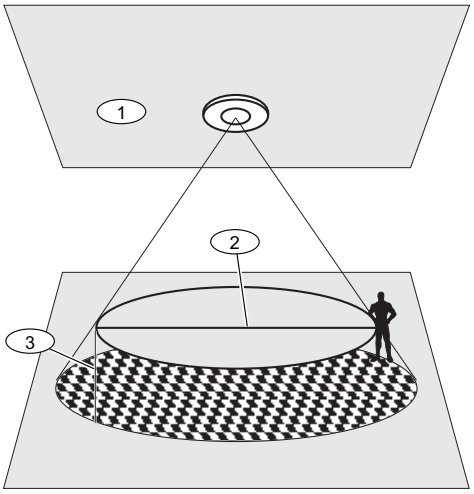
1. Install the housing cover.
2. Remove the mounting bracket.
   Refer to *Figure 1*, page 1.
3. Mount the housing base to the ceiling using the supplied anchors and screws.

The maximum mounting height for the detector is 3.6 m (12 ft). As mounting height increases, distance between detection zones also increases toward the perimeter, thus intensifying the effects of factors such as floor surface temperature, and intruder direction and speed. These effects can ultimately reduce detection speed.

Ensure that a walk test is performed to check all detection zones, including the intrusion paths crossing the edges of the zones.

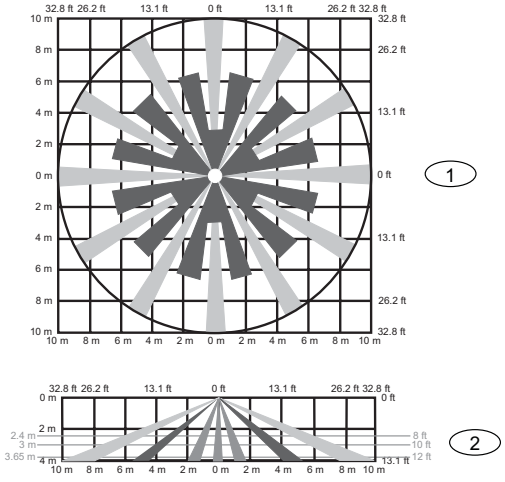
Refer to *Figure 3* and *Figure 4* for more information.

Figure 3: Detection Diameter



1 - Ceiling mounting height: 10 ft (3 m)
2 - Effective detection diameter: 46 ft (14 m)
3 - Distance between detection diameter and floor: 2.6 ft (0.8 m)

Figure 4: Lens Pattern



1 - Top view
2 - Side view

6.0 Test the Detector

6.1 Perform a One-Minute Walk Test

To start a one-minute walk test:

- Remove the cover, and hold a magnet near the test reed switch for 1 sec, or
- Press and hold the test button for 1 sec.

During the walk test period, the detector does not send alarm signals, and the test LED blinks each time the detector senses motion.

The test LED (refer to *Figure 2*, page 1) blinks only during a walk test or transmission test.

6.2 Perform a Transmission Test

To start a transmission test:

- Remove the cover, and hold a magnet near the Test Reed switch for at least 3 sec, or
- Press and hold the Test button for at least 3 sec.

During the transmission test, the detector sends alarm and restoral signals at regular intervals for approximately one minute. The LED blinks each time the unit sends a signal. Ensure that events are received by your network coordinator, receiver or control panel.

7.0 Specifications

Dimensions (H x W):	131 cm x 57 cm (5.2 in. x 2.25 in.)
Weight:	185 g (6.52 oz)
Detection Method:	Four-element PIR
Operating Temperature:	0°C to +49°C (+32°F to +120°F)
Humidity:	10% to 90% (non-condensing)
Battery:	3 V lithium (DL123A)
Typical Battery Life:	4 years in a location with low-to-moderate activity
Visible Light Protection:	Stable against halogen light 2.4 m (8 ft) or reflected light
Temperature Compensation:	Yes
Pulse Count:	Single or multiple pulse
Standard Lens Coverage:	20 m (65.6 ft) x 360∞

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