

English

The EL-2645PI is a wireless PIR sensor designed for use with Electronics Line 3000's supervised wireless range of receivers. The sensor is designed for pet installations and provides good immunity to nuisance alarms caused by pets weighing up to 45kg (100lbs). The EL-2645PI implements a feature to combat the problem of multiple transmissions that drastically reduce the life of the batteries. After each detection, the sensor initiates a four-minute delay during which transmissions will not be sent.

Location of Detector

Consider the following before mounting the detector:

- Select a location from which the pattern of the detector is most likely to be crossed by a burglar, should there be a break in.
- Do not place bulky objects in front of the detector.
- Avoid a location that comes in direct contact with radiators, heating/cooling ducts or air conditioners.
- Do not place the detector in front of windows subject to direct sunlight or drafts.

Pet Immunity Guidelines

It is expected that the detector will eliminate false alarms caused by animals up to 45kg/100lbs, several small rodents and random flying birds. **Note: The weight of the animal should only be used as a guide, other factors such as the length and color of fur also affect the level of immunity.**

For maximum pet immunity the following guidelines are recommended:

- Mount the center of the detector at a height of 2m with the PCB vertical setting at -4.
- Set the pulse counter to 2. If the weight of the animal is over 25kg, set the pulse counter to 3.
- Do not aim the detector at stairways that can be climbed by an animal.
- Avoid a location where an animal can come within 1.8m of the detector by climbing on furniture, boxes or other objects.

Installation Instructions

1. Open the housing by removing the front cover. To do so, insert a screwdriver in the release slot (located at the bottom of the detector between the front and back cover). Turn the screwdriver 90° to release the cover.
2. Remove the PCB by turning counter-clockwise and removing the “Easy Lock”.
Note: Do not touch the face of the PYRO sensor.

3. Apply battery power by removing the isolator that separates the battery from the contacts on the battery holder.
4. Place the Mode jumper over pins 2 & 3 (Radio Mode); the LED flashes. **Note: Install the Mode jumper only after applying battery power.**
5. Set the receiver to Registration mode and wait for the receiver to indicate that the transmitter has been registered successfully. Write the number of the zone and the transmitter number (if applicable) on the sticker provided. Affix the sticker inside the front cover for future reference.
Note: Alternatively, the EL-2645PI can be registered to the receiver by manually entering the transmitter's serial number.
6. Remove the jumper and place it over one pin for storage - *see Mode Jumper Safeguard*.
7. Choose an appropriate mounting height (2m recommended for maximum pet immunity) and test the transmitter from the exact mounting position before permanently mounting the unit.
8. Knock out the mounting holes and attach the base to the wall.
9. Mount the PCB at the required vertical adjustment and replace the Easy Lock.
10. Replace the front cover.

Operation and Adjustment

Warm-up Time: The detector will need to warm up for the first 90 seconds after applying power.

Pulse Counter: The pulse counter determines the amount of beams that need to be crossed before the sensor will produce an alarm. The available options are 1, 2, 3 or Adaptive pulse count. Using the Adaptive pulse count feature, the detector chooses between 1 or 2 pulses based on its analysis of the received signal. To set the pulse counter, refer to Table 1 for the appropriate DIP-switch setting.

Switch 2	Switch 3	Pulse Count
OFF	OFF	1
ON	OFF	2
ON	ON	3
OFF	ON	Adaptive

Table 1

Vertical Adjustment: To position the PCB, turn the Easy Lock counter-clockwise and slide the PCB up or down to the required setting using the vertical adjustment scale. The detector's coverage area is 12m x 12m when the PCB is positioned at -4. Slide the PCB up towards the -8 position to decrease the coverage area bringing the beams closer to the mounting wall. **Note: The sensor is designed to provide optimum coverage of up to 12m. Increasing the coverage area to over 12m will reduce the level of performance in the area closest to the sensor.**

Walk Test Mode: A walk test is performed in order to determine the lens coverage pattern of the detector – *see Figure 2*. Walk Test mode cancels the delay time between detections, enabling you to perform an efficient walk test.

To walk test the detector:

1. Place the Mode jumper over pins 1 & 2.
2. Walk across the scope of the detector according to the detection pattern selected.
3. Confirm that the LED activates and deactivates accordingly. Wait for ten seconds after each detection before continuing the test.
4. After completing the walk test, remove the jumper and place it over one pin for storage - *see Mode Jumper Safeguard*.

LED Indication: The LED indicator is lit every time a transmission is made. To enable/disable LED indication, refer to Table 2 for the appropriate DIP-switch setting.

Switch 1	LED Indicator
OFF	Disabled
ON	Enabled

Table 2

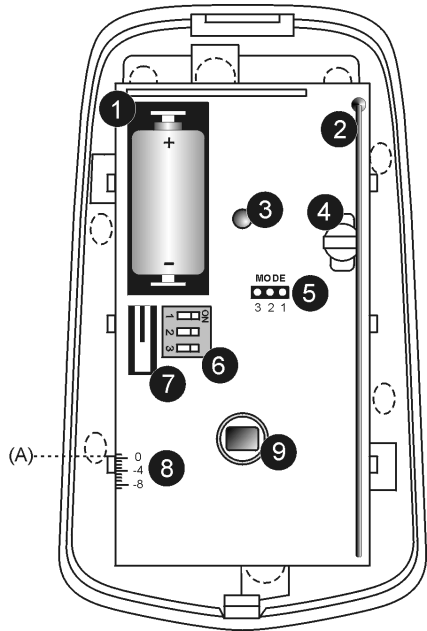
Note: The LED should only be disabled after successfully walk testing the detector.

Mode Jumper Safeguard: During normal operation, the Mode jumper should be placed over one pin for storage. When the mode jumper is placed over two pins, the detector is either in Radio or Walk Test Mode. As a precaution, these modes are limited to four minutes. After the four minutes have expired, the detector switches back to normal operation. If this happens, you can reset a mode by removing and replacing the mode jumper.

Technical Specifications

Antenna: Built-in Internal Whip
Frequency: 868.35MHz, 433.92MHz or 418MHz FM
Power: 3.6V ½ AA Lithium Battery
Caution: Fire, explosion and severe burn hazard! Do not recharge, disassemble or heat above 100°C.
Current Consumption: 30mA (transmission)
12µA (standby)

Pyroelectric Sensor: Dual Element
Maximum Coverage: 12 x 12m
Pulse Count: 1, 2, 3 or Adaptive (selectable)
LED Indicator: Selectable
Adaptive Temperature Compensation
RFI Immunity: 30V/m
Operating Temperature: -10 to 60°C
Fire Protection: ABS Plastic Housing
Dimensions: 110 x 60 x 45mm



1. Battery Holder/Support de batterie/ Soporte de la Bateria
2. Antenna/Antenne/Antena
3. LED Indicator/Indicateur de LED/ Indicador LED
4. Easy Lock/Verrouillage facile/ Traba “Easy Lock”
5. Mode Jumper/Cavalier de mode/ Jumper de Modo
6. DIP Switch/Mini-Interrupteur/Llave DIP
7. Tamper Switch/Contact d'autoprotection/ Llave del Tamper
8. Vertical Adjustment Scale/ Echelle d'ajustement Vertical/ Escala de Ajuste Vertical
9. Pyro Sensor/Capteur Pyroélectrique/ Sensor Piroeléctrico

Note: The Vertical adjustment scale relates to the top edge of the adjacent plastic stud (A).
Note: La partie supérieure du clou en plastique (A) sert de point de référence pour la graduation d'ajustement vertical.
Nota: La escala de ajuste vertical toma como referencia el borde superior del soporte adyacente de plástico (A).

Figure 1: PCB/Figure 1: Circuit Imprimé (PCB) /Figura 1: PCB

Plan View/ Vue du dessus/ Vista Superior

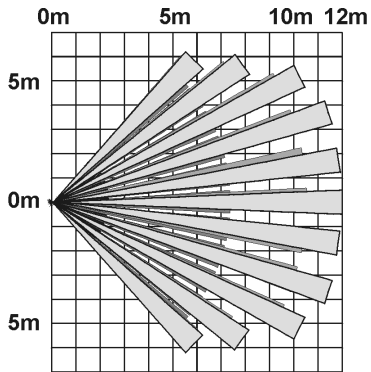


Figure 2: Lens Coverage
Note: The diagram shows the coverage pattern for the detector mounted at 2m with the PCB set at a vertical adjustment of -4.

Figure 2: Zone de couverture de la lentille
Le schéma indique la zone de couverture pour un détecteur monté à 2m avec le circuit imprimé en ajustement vertical à -4.

Figura 2: Cobertura de la Lente
Nota: El diagrama muestra la cobertura del detector montado a 2m y con la tarjeta PCB en la posición -4 de ajuste.

Side View/ Vue du côté/ Vista Lateral

