The EL-2645 is a Wireless Motion PIR Detector designed for use with Electronics Line supervised wireless range of receivers.

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.

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 90º to release the cover.
2. Remove the PCB by turning counter-clockwise and removing the 'PCB Screw'. ***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. Set the receiver to Registration mode and cause Tamper or Alarm transmission. 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 Detector can be registered to the receiver by manually entering the transmitter's serial number.***
5. Choose an appropriate mounting height from 2.2 – 2.5 and test the transmitter from the exact mounting position before permanently mounting the unit. ***Note: If you choose mounting height other than recommended (which is not advised), please perform a walk test to check the lens coverage. The recommended mounting height is the best in terms of detection area.***
6. Knock out the mounting holes and attach the base to the wall.
7. If using the rear tamper switch, insert a screw into the rear tamper mounting hole located in the center of the back cover – *see Figure 3.* When the detector is removed from the wall, the screw causes the tamper release to break away from the back cover and the rear tamper switch is released.
8. Mount the PCB on the base cover and replace the PCB Screw.
9. Replace the front cover.

DIP Switches Settings

Switch	
1	**PIR sensitivity** * **Off:** Low **On:** High
2	**Operation mode**: * **Off**: Normal mode – Every 3 minutes. After each detection the sensor initiates a three-minute delay during which alarm transmissions will not be sent **On**: Walk Test mode. An alarm transmission is sent after each detection
3	**Supervision Time:** **Off:** As supervision message will be sent to the monitoring station every 15 minutes * **On:** As supervision message will be sent to the monitoring station every 65 minutes
4	**LED** **Off:** LED disabled * **On:** LED enabled

*=Default

Operation Modes

Warm-up Time: The detector will need to warm up for the first 90 seconds after applying power.
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. Set DIP 2 to ON.
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. Set DIP-2 to OFF.

LED Indication

The LED indicator is lit every time a transmission is made. To enable/disable LED indication, refer to DIP Switch Setting section for the appropriate DIP-switch setting.
Note: The LED should only be disabled after successfully walk testing the detector.

Changing Lenses

To change a lens, release the cavity seal using a small screwdriver and fix the new lens into place with the smooth side facing outwards. Verify that the word TOP is located at the top of the lens (alternatively a notch may appear on the bottom edge of the lens) before snapping the cavity seal back into place.

Battery Replacement

In case of a low battery (2.5 V and below), the sensor low battery condition is reported to the Control System and low battery message is displayed
To replace a battery: Open the housing by removing the front cover (see Installation Instructions), replace the battery, and close the front cover.
Note: Close the front cover immediately after each battery replacement.

Technical Specifications

Frequency: 868.35, 433.92 MHz
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), 8µA (standby)
Pyroelectric Sensor: Dual Element
Maximum Coverage: 14 x 14m
Adaptive Temperature Compensation
RFI Immunity: According to EN 50130-4
Operating Temperature: -10 - 40°C
Fire Protection: ABS Plastic Housing
Dimensions: 110 x 60 x 45mm

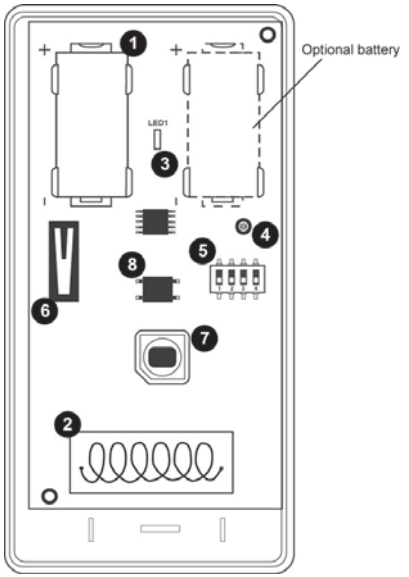

Figure 1: PCB

1. Battery Holder
2. Antenna
3. LED Indicator
4. PCB Screw
5. DIP Switch
6. Tamper Switch
7. Pyro Sensor
8. Back Tamper

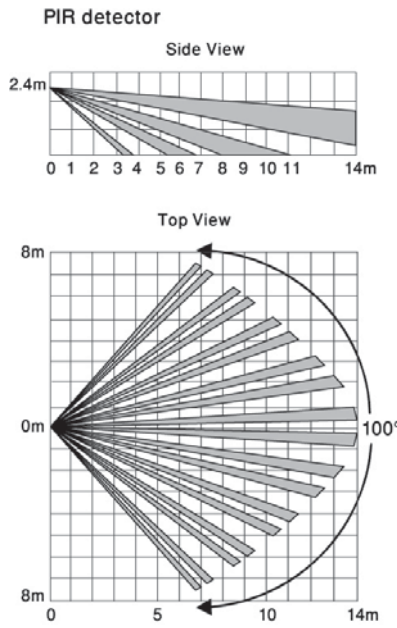

Figure 2: Lens Coverage

Note: The diagram shows the coverage pattern for the detector fitted with a standard lens.

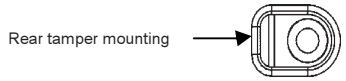

Figure 3: Rear Tamper Release

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International Headquarters:
Electronics Line 3000 Ltd.
14 Hachoma St., 75655
Rishon Le Zion, Israel
Tel: (+972-3) 963-7777
Fax: (+972-3) 961-6584

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