EL-2607

The EL-2607 is a wireless vibration detector designed for use with Electronics Line 3000's supervised wireless range of receivers. The sensor detects vibrations originating from a forced entry attempt and offers adjustable sensitivity that can help to maximize detection whilst preventing false alarms. The EL-2607 implements a feature designed to combat the problem of multiple transmissions, which drastically reduce the life of the batteries. After an alarm transmission, there is a four-minute delay during which further transmissions will not be sent.

Installation Instructions

1. To open the housing, insert a small screwdriver at the bottom of the unit between the front and back cover and twist the screwdriver to release the cover.
2. Remove the divider separating the battery from the contacts on the battery holder. When you apply power and the Tamper switch is open, the EL-2607 enters Registration mode during which a transmission is sent every few seconds. You can terminate Registration mode by closing the Tamper switch. Test mode is automatically terminated after approximately five minutes. ***Note: Due to the occurrence of voltage delay in lithium batteries that have been in storage, the batteries may initially appear to be dead. In this case, leave the unit in Test mode for a few minutes until the battery voltage level is stabilized.***

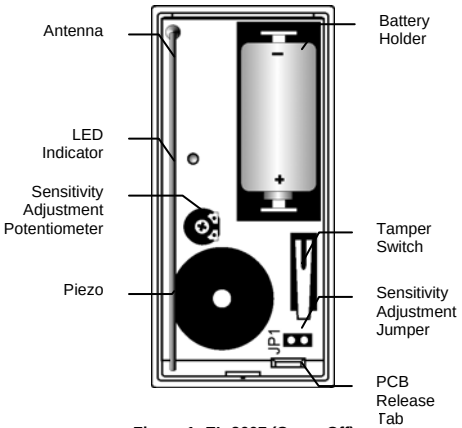

Figure 1: EL-2607 (Cover Off)

3. While the EL-2607 is in Registration mode, set the receiver to Registration mode and make sure that the transmitter's LED indicator lights up at least twice. After registration, momentarily close the Tamper switch to terminate Registration mode. Write the number of the zone and the transmitter number (where applicable) on the sticker provided. Affix the sticker inside the front cover for future reference.

   Note: The EL-2607 can also be registered to the receiver by manually entering the transmitter's serial number.
4. Before permanently mounting the unit, test the transmitter from the exact mounting position. If necessary, relocate the transmitter to a better position.
5. To remove the printed circuit board (PCB), press the PCB release tab, carefully lift the board and slide it away from the back cover.
6. The plastic housing can be screw mounted to doors and window frames or can be affixed directly onto glass windows using a strong double-sided non-cushioned adhesive tape. Mount the back cover and replace the PCB. Use two ISO 7050 (ST3.5 x 22) or similar countersunk screws so that the screw head will not touch the PCB – see Figure 2.

   Note: The unit must be fixed to a secure base.
7. Once you have mounted the sensor, it is necessary to adjust the sensor's sensitivity as follows:
   a. Make sure that the Tamper switch is open and insert the Sensitivity Adjustment jumper; the LED flashes once every few seconds to indicate that the sensor is in Adjustment mode.
   b. Strike the protected door or window at the furthest point away from the detector with a screwdriver handle or cushioned tool; the LED flashes every few seconds to indicate the sensitivity level.
      - 1 flash = test failed (sensitivity too low)
      - 2 flashes = "Normal" sensitivity (recommended)
      - 3 flashes = "High" sensitivity
      - Continuous flashing = test failed (sensitivity too high).

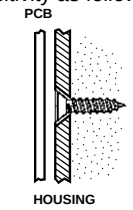

Figure 2: Mounting Screw Position

c. If required, turn the Sensitivity Adjustment potentiometer clockwise to increase sensitivity and counter-clockwise to reduce sensitivity.

d. Repeat the sensitivity adjustment test until you achieve the required sensitivity level (i.e. the LED flashes twice or three times every few seconds).

8. After you have adjusted the sensitivity, repeat the test once more and, while the LED is flashing as required, press the Tamper switch in order to save the sensitivity setting.

   Note: You can press the tamper switch once or just close the housing.

9. When you press the Tamper switch to save the sensitivity setting, the sensor automatically switches from Adjustment mode to Test mode. In Test mode, you can test the sensitivity of the sensor by striking the door or window frame. If the impact detected by the sensor is enough to generate an alarm, the LED is lit. Make certain that striking the door or window frame softly does not generate an alarm.

   Note: In Test mode, there is no four minute alarm delay and alarm detection does not result in the sensor sending an alarm transmission.

10. Terminate Test mode by closing the Tamper switch. Test mode is automatically terminated after approximately five minutes.
11. Remove the Sensitivity Adjustment jumper and place it over one pin for storage.
12. Close the front cover of the EL-2607.

Operation Mode	Description	Activation
Registration	A transmission is sent every few seconds allowing the sensor to be registered to the receiver.	Activated by applying battery power. Registration mode may be terminated by pressing the Tamper switch or is automatically terminated after 5 minutes.
Adjustment	Striking the protected door or window frame indicates the sensor's sensitivity setting.	Activated by installing the Sensitivity Adjustment jumper while the Tamper switch is open. Pressing the Tamper switch during Adjustment mode saves the adjustment setting.
Test	Striking the protected door or window frame indicates whether the impact would generate an alarm.	Activated automatically when you press the Tamper switch to save the adjustment setting. Test mode may be terminated by pressing the Tamper switch or is automatically terminated after 5 minutes.
Normal	Striking the protected door or window frame sends an alarm transmission to the receiver.	Regular operation mode of sensor. In this mode, alarm activation is limited to one alarm approximately every 4 minutes.

Table 1: Operation Mode Summary

Technical Specifications

Antenna: Built-in Internal Whip
Frequency: 868.35, 433.92, 418 or 315 MHz FM
Power: 3.6V ½ AA Lithium Battery
Caution: Fire, explosion and severe burn hazard!
Do not recharge, disassemble or heat above 100ºC.

Current Consumption: 25mA (transmission), 10μA (standby)
RFI Immunity: 40V/m
Alarm Delay During Normal Operation: approximately 4 minutes
Operating Temperature: 0-60°C

Electronics Line 3000 Ltd.

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