TWO WAY WIRELESS **CURTAIN PIR DETECTOR**



ELECTRONIC ENGINEERING LTD.

INSTALLATION INSTRUCTIONS

P/N 7102327 REV. A (DZ)

INTRODUCTION

This FW2 Curtain PIR detector is an advanced fully supervised low-current wireless detector that includes a FW2 transceiver for reliable system operation combined with the most advanced Mirror Optics detection method.

This FW2 Curtain PIR detector includes APS mechanism for extending the battery lives.

This FW2 Curtain PIR detector includes series of messages for full communication administration (Keep Alive, Tamper Status, Battery Status, Alert, Configuration, etc.) as well as test transmission signals

This product require professional installation.

FEATURES

- FW2 GFSK protocol.
- Low current Technology.
- Powered by a single 3V Lithium battery.
- Battery life: up to 5 years.
- Frequency Band: 868.35MHz / 916MHz.
- Tamper Open/Close transmission.
- Supervisiontransmission.
- Battery status transmission.
- Bi-Color LED indications
- Range up to 500m on open space.
- Remotely configurable.
- Motion Detection 4-6M or 6-8m

OPERATION

This FW2 Curtain PIR detector transmits the following events data:

SUPERVISION- A periodical transmission (configurable) indicating detector's presence.

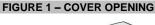
ALARM - Alarm transmission triggered by the device indicating Motion detection. The Red LED will blink once.

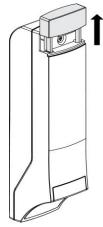
LOW BAT - Whenever the battery reaches the low level (2.5V), a Battery Low signal will be sent. When Battery level drops below Cut Off level (2.3V) the device will stop functioning and the Red LED will blik for 10 seconds and then turned Off.

TAMPER - Whenever the cover is removed from Bracket or the device is tear off from the wall, a message will be transmitted with "Tamper ON" signal. When cover will be returned a "Tamper OFF" signal will be transmitted.

LEARNING PROCESS

- Open the screw cover as shown in Figure 1.
- Unscrew the holding screw and eparate the device from the Bracket by tilting the front
- Place a battery as instructed in Figure 2 and wait until the Red LED stops blinking.
- Initiate the Base Station paring process.
- Initiate the PIR learning process by pressing the pairing button for 5 seconds – the pairing button is shown in Figure 3. The Green LED will constantly turn On. When the Green LED starts blinking release the pairing button.
- The device should register to the CP.
- When registration process is successfully completed the Green LED will constantly light On for 3 seconds and then turn Off.
- If registration process failed the Red LED will blink. Remove the battery, wait for few seconds (~10sec) and repeate the learning process.





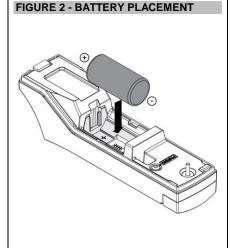
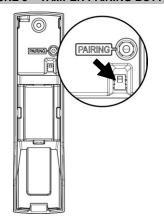


FIGURE 3 – TAMPER PAIRING BUTTON



Press Tamper switch to learn the device

SELECT MOUNTING LOCATION

Choose a location most likely to intercept an intruder. (See Figure 4 - Detection Pattern).

Recommended mounting height - 1.9m-2.3m.

Avoid the following locations:

- · Facing direct sunlight.
- · Facing areas that may change temperature
- Areas where there are air ducts or substantial airflows

This device detect or performs better when provided with a constant and stable environment.

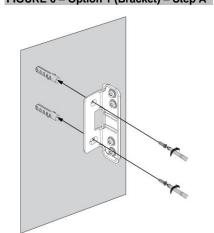
MOUNTING THE DETECTOR

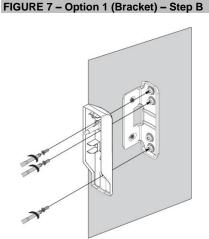
There are 2 options for mouting this detector:

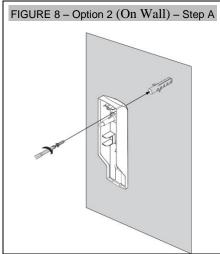
Option 1: Using a 90° bracket. Option 2: Direct on wall using screws.

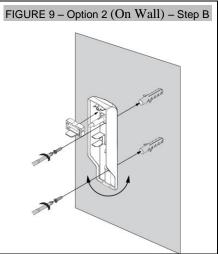
- 1. In all installation options the device shall be opened by openning the screw cover as shown in Figure 1, unscrew the holding screw and separate the device from the bracket by tilting the front cover.
- Mount the Bracket to the wall using 1 out of the 2 options as showen in Figures 4 to 10.
- Make sure the device is paired.
- Place the device in the bracket by inserting it back into its appropriate position as shown in Figure 10.
- 5. Fasten the holding screw and close the screw cover.

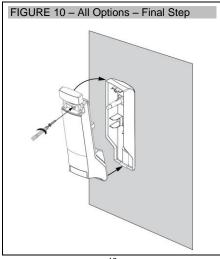
FIGURE 6 - Option 1 (Bracket) - Step A











TRANSMISSION TESTS

After pairing and installing the detector we recommend to perform walk and transmission tests.

Tamper Transmission Test

Changing the tamper switch state (by attaching / removing the device to / from the Bracket) will cause tamper transmissions.

Motion Transmission Test

Walk crossing in front of the detector from one side to the other will cause motion alert transmissions. Verify receiving the indication on your control panel. Pay attention that due to APS feature it is required waiting 2 minutes between 2 consecutive indications.

BATTERY REPLACEMENT

- Open the screw cover as shown in Figure 1.
- 2. Unscrew the holding screw and separate the device from the Bracket by tilting the front cover.
- 3. Remove the in use battery from the device.
- 4. Install the new battery in the correct polarity as shown in Figure 2.
- Wait until the Red LED stops blinking.
- 6. In case the device was paired to a control panel the device should automatically register again to the same control panel.
- 7 Place the device in the Bracket by inserting it back into appropriate position and validate receiving the Tamper Alert Off indication on vour control panel.
- Fasten the holding screw and close the screw

!!! CAUTION !!!

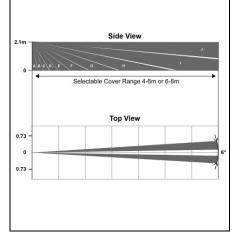
RISK OF EXPLOSION IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL.

DISPOSE USED BATTERIES ACCORDING TO ITS INSTRUCTIONS

> The battery must be replaced by 3V Lithium battery Size 2/3A Models such as:

> > 1. VARTA CR123A 2. GP CR123A

FIGURE 11 - DETECTION PATERN



20 REGULATORY APPROVALS

The FW2-PIR-CRT conforms to the essential requirements set out by

- RTTE directive:1999/5/EC
- EMC directive: 2004/108/EC
- Low Voltage directive: 2006/95/EC

Harmonized Standards applicable to this products are:

- EN300220-2
- FN301489-3 EN301489-1
- EN50130-4:1995+A1(1998)+A2(2003)
- EN61000-6-3

Additional Standards and Directives applicable to this product are:

- RoHS directive: 2002/95/EC
- EN50131-1
- EN50131-2-2 EN50131-5-3
- EN50130-5



Security Grade2, Environmental Class II

TECHNICAL SPECIFICATIONS

Detection Method PYRO Element with Mirror Optics Data Protocol FreeWave2

Modulation Type GFSK (2 frequencies) Frequency 868-869MHz / 916-917MHz Identification Unique ID serial number - 24 bit

Events Transmission Alarm, Tamper, Supervision, Low Bat, Keep Alive. Supervision Time

7 min by default (configurable between 1 to 30 minutes) Range in open space 500m

Lithium. 3V Type: CR123A -Battery Size: 2/3AA

Up to 5 years Battery life Current Standby ~11 μA Consumptions Receive mode ~24 mA Transmit mode ~45 mA Transmit power ~14dBm

Tamper Switch Front Cover Removal Operating -10°C to +55°C temperature Dimensions

120 gr. Weight (inc. battery)

23

123mm x 31mm x 37mm

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Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the

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Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions.

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