

- To remove the front cover, unscrew the holding screw, insert a flat screwdriver in the slot between the front and the bottom while pushing and twisting it gently until the front cover is disengaged. (Fig. 1)
- 2 Mount the detector base: place all 3 screws and make sure you tighten the tamper screw (the middle screw) easily, so the back tamper switch will press the switch successfully when PCB is placed back - over winding may result in false mechanical adaptation and lack of tamper press.
- Mount the Magnet Unit near the Marking. Place the CR123A BAT according to the right 4
- polarity 5. Place the cover by inserting it back in the
- appropriate closing pin and screw the holding screw

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TAMPER TRANSMISSION TEST

Pressing and releasing the tamper (push button) enables the TAMPER transmission test feature. Verify the Control Panel indicates "Zone Tamper open" and TROUBLE LED is ON. Close the Tamper and verify the Control Panel Indicates ZONE TAMPER OPEN is restored and TROUBLE LED is OFF In some control panels READY LED will turn OFF

when tamper is open and ON when closed. Transmission can also be reviewed on the

transceiver unit as a rapid Red-Green-LED blink.

EXTERNAL MAG

It is optional to use additional magnet units connected to the MAG terminal input. This connection is protected by End Of Line resistor value 8.2Khom. Alarm transmission, triggered by intrusion detection at WIRE terminal input, provides signals of door/window open/close up to 15m. Connect two wires communication cable to the MAG terminal block inputs. See Fig.3

FCC & IC STATEMENT

FCC ID: NFC-FW2MAG9F IC: 8164A-FW2MAG9F

This device complies with FCC Rules Part 15 and with Industry Canada licensc-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

Canada: Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

INSTALLATION



BATTERY REPLACEMENT

Remove the front cover.

X-Y

- Pull out the old battery.
- Install a new battery according to polarity marking

or

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- After assembling the battery the LED will flash Green then Red alternately for 45 seconds. During this time the detector does not function, wait until the LED stop flashing.
- Press tamper for 2 sec and then release it. Note LED indications:
- Green/Red LED flashes 6 times alternately:

The detector was successfully registered in system. The cover may be placed back and closed.

Green LED blinks 20 times: No response from Transceiver / device was not assigned on CP - Repeat installation procedure.

Red LED blinks continually (over 20 sec): Battery voltage is critical low device won't function - Replace battery.

FCC & IC STATEMENT (Continue)

NOTE: The digital circuit of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful particular instantation. If this equipment over does close that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of

-Reorient or relocate the receiving antenna. -Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help.

WARNING:

WARNING: Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Crow Electronic Engineering Ltd.) could void the user's authority to operate the equipment.

CROW ELECTRONIC ENGINEERING LTD. ("Crow") - WARRANTY POLICY CERTIFICATE

This Warranty Certificate is given in favor of the purcl authorized distributor. er (hereunder the "Purchaser") purchasing the products directly from Crow or from its

authorized distributor. 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 last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "Warranty Period"). Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are form time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period. All transportation costs and in-transi risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be home solely by the Purchaser.

be borne solely by the Purchaser. 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; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions. There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend

bevond the description on the face hereof

beyond the description on the face hereof. This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warrantics and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort otherwise. In o case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Crow or any third party on its behall for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection. Purchaser understands that a property installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result. Consequently, Crow shall have no liability for any personal injury; property damage or any other loss based on claim that these products failed to giv any warning.

any warning. If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Cro

15 ALARM TRANSMISSION TEST Removing and placing of magnet unit enables the

alarm transmission test feature. Check that the transceiver unit indicates at least 2 events - one for removing and one for placing the magnet.

To check this function it is necessary to verify that the FREEWAVE2 control panel displays the following massage:

Zone # X Open

The message appears when removing the magnet unit and disappears while placing the magnet back (X = zone number from which the massage received)

REGULATORY APPROVALS

The FW2-MAG conforms to the essential requirements set out by:

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- RTTE directive:1999/5/EC
- EMC directive: 2004/108/EC
- Low Voltage directive: 2006/95/EC
- onized Standards applicable to this products are: На
- EN300220-2 EN301489-3

X-Z

- EN301489-1
- EN50130-4
- EN61000-6-3
- EN60950-1 EN50131-6
- EN50130-5
- EN50131-5-3

Security Grade 2 Environmental Class II

Additional Standards and Directives applicable to this product are

- RoHS directive: 2002/95/EC
- EN50131-2-6: 2004



TECHNICAL SPECIFICATIONS

| Data Protocol Modulation Type Frequency Identification Event Transmission | FreeWave2 GFSK (1Frequency) 868.35MHz / 916.5 MHz Unique ID serial number – 24 bit Alarm, Tamper, Supervision, Low Bat Supervision |
|---|---|
| Detection Method | Internal Reed Switch or External Magnet Device |
| Range in open space 500m | |
| Battery | Lithium. 3V Type: CR123A Size: 2/3AA |
| Battery life expectancy >5 years (10 activation per day) | |
| Current Consumptions: | |
| Standby | ~3 µA |
| Receive mode ~29 mA | |
| Transmit mode | ~38 mA |
| Low Battery | ~2.4Vdc |
| Transmit power: | <14dBm |
| Tamper Switch | Front Cover Removal; Back Tamper |
| External Input Operating temperature Dimensions Weight (inc. battery) | Up to 15m with 8.2Kohm EOL resistor -10°C to +55°C 97mm x 23mm x 22mm 40 gr. |

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