

Wireless Access Control Door Interface
MD-W11

Installation Manual



November 2010

ROSSLARE
SECURITY PRODUCTS

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1. Introduction

1.1 Overview

Rosslare Enterprises Ltd.'s MD-W11 Wireless Access Control Door Interface, is a quick, inexpensive solution for connecting remote door devices, such as readers, locks, and REX Buttons to an access control unit.

The MD-W11 Wireless Access Control Door Interface consists of two units per door, one located near the controller (the Near unit) and the other near the door (the Far unit). The Near unit is connected to a Rosslare door controller (e.g., AC-215, AC-225, or AC-525). The Far unit is connected to proximity card readers or keypads (e.g., AY-K12 and AY-Q64B).

When a card is read or a code is keyed onto the keypad, the Far unit transmits the information to the Near unit. The Near unit, attached to the AC-225 or to another controller, determines whether or not to open the door. The controller then sends the message to the Near unit, which transmits it to the Far unit, and if authorized, the door is opened.



Caution:

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

1.2 Features

The MD-W11 Wireless Access Control Door Interface includes:

- Bi-directional RF data communication
- Supports PIN codes and card formats, such as Wiegand 26 bit, 32 bit, and PIN code 6 bit (see list of formats on page 8).
- Lock and door relay commands
- Tamper, door monitor, and REX messages between the controller and the interface unit
- Rolling Code to increase security
- Four different RF channels to prevent collisions
- Built-in charger for up to 12VDC, 7Ah backup battery on the Far unit
- Transfers proximity card information and LED control, reader tamper, lock relay commands, REX, and door monitor events between the coupled units.
- Optional MD-W11BP battery pack housing with space for 12VDC/800mAh, sealed lead-acid battery.
- Suitable for indoor use.
- Available in 869 MHz (H) and 433.92 MHz (G) bands
- The NEAR unit is powered from the controller's power supply. The FAR unit is powered by a local wall transformer. A built-in charger provides battery backup.

The MD-W11 Wireless Access Control Door Interface is displayed in Figures 1 and 2.



Figure 1: MD-W11 Wireless Access Control Door Interface – Near & Far Unit



Figure 2: MD-W11 Wireless Access Control Door Interface – G Near Unit (with external Antenna)



Figure 3: MD-W11 Wireless Access Control Door Interface – Battery Pack

2. Technical Specifications

2.1 Electrical Characteristics

Input Voltage:

Far Unit: 12-24 AC, 15-24V DC.

Near Unit: 13.8V DC from the controller's power supply or wall adapter.

Battery Charger: 12V sealed Lead-Acid, up to 7Ah (Far Unit)

Input Current: Standby: 70mAh
Max: 160mA

**Maximum Range:
(With External
Antenna)** Open field: 300 meters (985 feet)
Range depends on RF related
environmental conditions.

Response time: Up to 500ms with Rosslare's AC-215
controller and reader.
Response time depends on RF link quality,
number of doors used as well as controller
and reader response time.

Output Relays:

Far Unit: One (1) 5A Form C relay

Near Unit: Two (2) 1A Form C relays

Output Types:

Far Unit: LED CTRL – open collector

Near Unit: STAM, SPV, LBAT, AC, TMP – open collector

Communications: Bi-directional RF, narrow band. Fast anti-
collision, rolling code protocol with data
protection. Available in 4 bands
(see Dipswitches, on page 18).

Technical Specifications

2.1 Electrical Characteristics

Data Transfer:	Reader formats (based on the card and keypad transmission formats listed below), Lock commands, REX, Door Monitor, LED control and reader tamper inputs.
Supervisory & Alerts:	Full supervision over the remote unit. Alert outputs at the Near unit for supervision failure, system tamper, reader tamper, low battery and power failure.

2.2 Environmental Characteristics

Operating Environment:	Indoor Use
Operating Temperature:	-10°C to 50°C (14°F to 122°F)
Operating Humidity:	0 to 95% (Non Condensing)

2.3 Dimensions

Near/Far Units H x W x D	13 x 8.7 x 3.2 cm 5.1 x 3.42 x 1.26 inch
Battery Pack H x W x D	12.8 x 6.9 x 3.4 cm 5.04 x 2.72 x 1.34 inch
Weight Near/Far Units	155 g 5.5 oz
Battery Pack - with battery	433 g 15.3 oz

2.4 Supported Card Transmission Formats

- Wiegand 26 bit (default)
- Wiegand 26 bit with facility code output
- Wiegand 32 bit
- Wiegand 32 bit reverse output
- Wiegand 34 bit
- Wiegand 40 bit

2.5 Supported Keypad Transmission Formats

- Single key, 6-bit Wiegand (Rosslare format, default)
- Single key, 6-bit Wiegand with Nibble + Parity bits
- Single key, 8-bit Wiegand, Nibble Complemented
- 4 keys binary, 26 bit Wiegand
- 1 to 5 keys, 26 bit Wiegand
- 6 keys BCD and parity bits, 26 bit Wiegand

2.6 Available models

- MD-W11NHR (869MHz)
- MD-W11FHR (869MHz)
- MD-W11NGR (433MHz)
- MD-W11FGR (433MHz)
- MD-W11BP

3. Installation and Wiring

The NEAR and FAR units of the MD-W11 are installed and wired as explained in this chapter.

3.1 The Installation Kit

The installation kit of the MD-W11 interface includes:

- **MD-W11N NEAR Unit:** The Near unit sends the Controller the Proximity card ID or Keypad code as though it were a local reader. Following controller code/ID verification, the lock relay receives a command (transmitted to the Far unit) to open the door.
- **MD-W11F FAR Unit:** The Far unit is connected to a proximity card reader and/or keypad, and controls the door lock relay.
- **MD-W11BP Battery Pack:** The Battery Pack is mounted only on the MD-W11 Far Unit side (See Installing the MD-W11BP Battery Pack, on page 16).

The MD-W11N and the MD-W11F are connected to the controller and the door components (lock, door monitor, reader). Both units are transceivers: the NEAR unit receives the data transmitted from the Reader, and sends it to the controller. If authorized, the controller sends authorization to the NEAR unit, which transmits authorization to the FAR unit. The FAR unit then opens the door.

The Wireless Access Control Door Interface makes the transfer of data between the Controller input, the outputs, and the door components (such as Lock, Reader, Door Monitor, and Exit Button) transparent, as if the door components were connected directly to the controller.

3.2 General Installation Requirements

The installation kit includes:

- One drilling template (Label /Sticker)

- One Security spline key
- One Security hex screw
- Four mounting screws
- Four wall plugs
- Fixed External antenna (G Model)

3.3 Installing the MD-W11N Unit

The NEAR unit can be connected to a standard Rosslare controller, such as the AC-225.

Decide where to mount the unit, and install it as follows:

1. Use the spline key to remove the case security screw from the back of the unit, as shown in Figure 4.

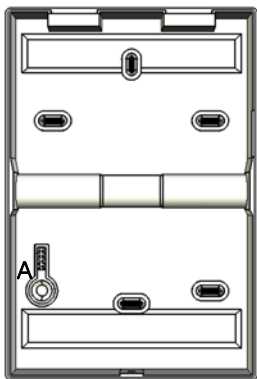


Figure 4: MD-W11 Back Cover

2. Use the drilling template to determine where to drill holes in the wall.
3. Use the hardware to mount the back plate on the wall.

Installation and Wiring



Notes:

We highly recommend to use the bottom left mounting hole, as it used for the purpose of back tamper when a person attempts to dislodge the unit from the wall. See Figure 4: MD-W11 Back Cover marked with **A**.

4. Wire the unit as instructed in the chapter on Wiring the MD-W11N Unit, below, and Figure 5: MD-W11N NEAR Unit Wiring Diagram, on page 12.

3.4 Wiring the MD-W11N Unit

Wire the following terminals between the Controller's Input and Output to the MD-W11N Near Unit, as shown in Figure 5:

1. Power supply connection (+12V and GND)
2. System tamper (STAM)
3. Supervision failure (SPV) - Far unit has supervision failure
4. Low battery (LBAT) - Far unit has low battery
5. AC Fail (AC) - Far unit has power failure
6. Data 0 (D0)
7. Data 1 (D1)
8. Reader LED control (LED input)
9. Far Reader Tamper (TMP)
10. Connection for lock (Lock input)
11. Relay 1 REX (output)
12. Relay 2-Door monitor (output)



Notes:

1. System tamper (STAM), Supervision failure (SPV), Low battery (LBAT), AC Fail (AC) are outputs which can be connected to any input of AC-225 and in AxTrax this input should be configured accordingly (using Panel Links).
2. If either the Far reader or the Near reader, or both have been tampered with, the STAM status changes, and retains this status until both readers have been closed.

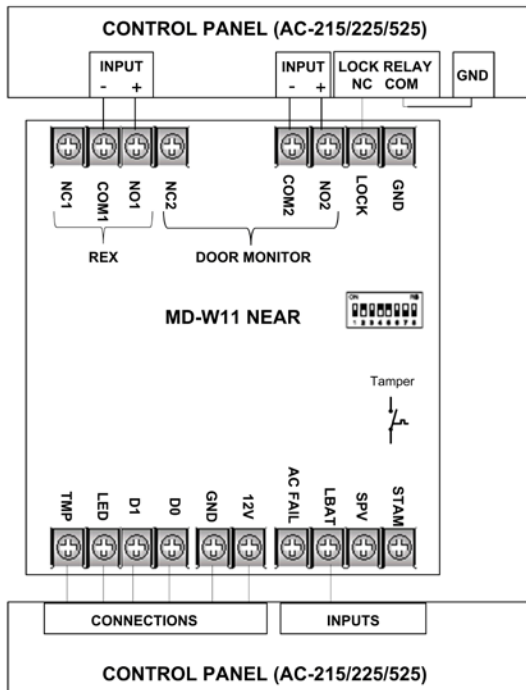


Figure 5: MD-W11N NEAR Unit Wiring Diagram

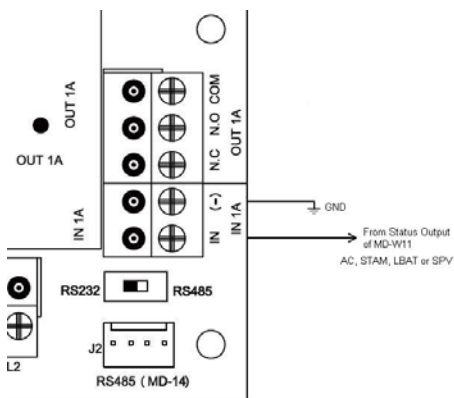


Figure 6: Sample Wiring Detail



Note:

Figure 6 shows sample input connections to any inputs, and is relevant to: AC-215/225/525.
The relevant input can be configured to result in the required outcome, using AxTrax and Panel Links.



Note:

1. The connection between the REX Input and Relay 1 is always COM+ N.O. or COM + N.C. so that only two lines connect this pair.
2. The connection between the Door Monitor Input and Relay 2 is always COM+ N.O. or COM + N.C. so that only two lines connect this pair.

3.5 Installing the MD-W11F Unit

The Far unit can be connected to a standard Rosslare reader, such as the AY-K12. The optional battery box can then be attached to the wall next to the Far unit.

1. Attach the battery box to the wall with two screws.
2. Insert the wires from the reader and from the battery to the hole in the side of the Far unit box.
3. Attach the side of the unit box to the wall with four screws.
4. Attach the wires to the PCB.
5. Cover both the battery and the Far unit boxes.
6. Tighten the screws on the bottom of both boxes so that they remain closed.

3.6 Wiring the MD-W11F Unit

Wire the following terminals between the Controller's Input and Output to the MD-W11 Far Unit, as shown in Figure 7: MD-W11N FAR Unit Wiring Diagram on page 15:

1. 12-24 VAC or 15-24VDC to the VIN+ and VIN-
2. Optional backup battery that connects to BAT+ and BAT-
3. 12V and GND power output for the Reader.
4. Data 0 Wiegand (D0) (input)
5. Data 1 Wiegand (D1) (input)
6. LED - Reader LED control (output)
7. TMP - Input for receiving reader tamper alert
8. Normally Open (NO)/Normally Closed (NC) and COM of 5A Form C relay to the door's lock
9. REX - Optional input for Request for Exit
10. DM - Optional input for door monitor contact

Installation and Wiring

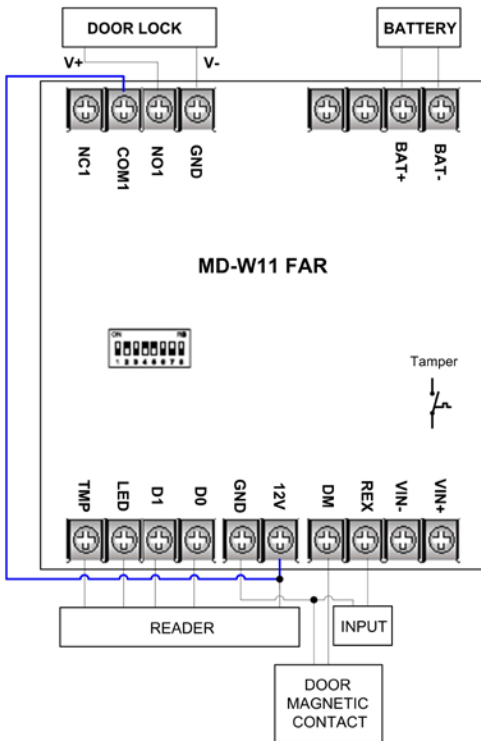


Figure 7: MD-W11N FAR Unit Wiring Diagram

3.7 Installing the MD-W11BP Battery Pack

Only install the MD-W11BP battery pack in the MD-W11 Far Unit.

Decide where to mount the unit, and install the battery pack as follows:

1. Use the spline key to remove the security screw from the bottom of the case, and open the unit.
2. Use the drilling template to locate where to drill holes in the wall.
3. Use the hardware provided to mount the back plate on the wall.
4. Wire the battery pack as shown in Figure 8.

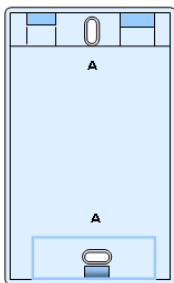


Figure 8: MD-W11BP Battery Pack



Note:

The battery pack comes with a battery installed. The size of the case is compatible with Rosslare's BT-05 12VDC / 800mA SLA rechargeable battery.

3.8 Wiring the MD-W11BP Battery Pack

In the Far unit only, connect the Red (+) and Black (GND) to MDW11F Bat (+) and Bat (-).

Installation and Wiring

3.9 Indications on the Near and Far Units

Figure 9 shows the six LED's (which indicate the unit's current status) on the display panel of each unit :

1. PWR – Power ON
2. Tx – Sending transmission
3. Rx – Receiving transmission
4. ENRL – Enrolling
5. TRBL – Trouble
6. SYS – System OK

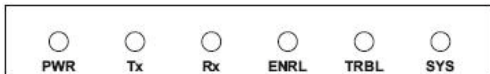


Figure 9: LED Display Panel

3.10 Installer Recommendations

To install the MD-W11 units most efficiently, place the Near and Far units facing each other, rather than placing them at a 90° angle to one another.

Both transmission and reception are improved if the Near and Far units have the same polarity.

In addition:

1. Do not place any of the MD-W11 units next to an air conditioner, heater, blower, or an engine that generates a magnetic field.
2. Do not place any unit next to an electronic device that transmits RF or next to an access control reader or device.
3. Assure that metal fixtures and furnishings (e.g., doors or closets) are not in line with the Near and Far units.
4. Assure that the Near and Far units are at the same approximate height, preferably above head level.

4. Enrollment

Prevent loss of transmission data by enrolling each pair of Near and Far units.

4.1 Enrolling the Units

One unit cannot recognize the unique ID of another unit unless both units are enrolled so that they can work together.

4.2 Dipswitches

The dipswitches on both units are set as follows:

Dipswitches 1-4:	Not used	Must be in the ON position.
Dipswitch 5:	OFF or ON	Used to set the channel.
Dipswitch 6:	OFF or ON	Used to set the channel.
Dipswitch 7:	Enrolling	Normal mode – ON Enrolling mode – OFF
Dipswitch 8:	Not used	Must be in the ON position.

1 2 3 4 5 6 7 8

Up is ON

Down is OFF



Note:

Only handle the Dipswitches when the power is OFF.

Enrollment

Set the unit channels with Dipswitches 5 and 6.

Dipswitch 5	Dipswitch 6	Channel H Model	Channel G Model
ON	ON	869.50 Mhz	433.60 Mhz
ON	OFF	868.45 Mhz	433.40 Mhz
OFF	ON	868.30 Mhz	433.20 Mhz
OFF	OFF	868.15 Mhz	433.00 MHz



Note:

Dipswitches 5 and 6 must be synchronized in the Far and Near Units.

Choose the same channel for both units.

If the LED's flash, the dipswitches have not been set properly. In that case, first re-set the dipswitches, and then power the unit off and on.

During enrollment, the enrolling LED blinks first, followed by the TX LED, which blinks when it is transmitting. The enrolling process is finished when the enrolling LED shines steadily.

After enrolling, return dipswitch 7 to ON (normal mode).



Note:

Only handle the Dipswitches when the power is OFF.

4.2.1. Near and Far Unit Modes

The current unit mode is indicated by a steady or blinking LED. The three modes (Normal, Enrolling, and Trouble) of the NEAR and FAR units are described in detail below.

Normal Mode:

The normal mode is "idle," and the LED's behave as follows:

- PWR - Power ON - steady
- Tx - Sending transmission - blinking when sending
- Rx - Receiving transmission - blinking when receiving
- SYS - System OK - blinking

**Note:**

If SYS LED is not blinking, it indicates a serious error.

A blinking TRBL indicates that there is trouble. Refer to the Trouble Mode for a list of possible problems.

Enrolling Mode:

The following steps indicate how to set the Enrolling mode (for retention of transmitted data).

1. Set Dipswitch 7 on both units (Near and Far) to OFF.
2. Power up both units.
3. PWR IS steady and ENRL IS blinking.
4. The Far unit sends its ID to the Near unit.
5. The Near unit receives an ID and sends it to the Far unit
6. The Far unit receives the Near unit's ID and ENRL is steady.

Enrollment

Trouble Mode:

The MD-W11 **FAR module** detects the following troubles:

- Reader tamper
- FAR module tamper
- Low battery
- AC Fail
- RF device Failure / Problem
- Incorrect dipswitch setting

Following detection of any of the said problems or failures, the FAR module behaves as shown in the following table:

Problem	Activity
Reader tamper	Sends trouble and problem to the Near module.
FAR module tamper	Sends trouble and problem to the Near module.
Low battery	Sends trouble and problem to the Near module. Trouble LED turns on.
AC Fail	Sends trouble and problem to the Near module. Trouble LED turns on.
RF device Failure / Problem	Trouble LED flashes at a fast rate. (after power on)
Incorrect dipswitch setting	All LEDs flash at a slow rate. (after power on)

The MD-W11 **Near module** detects following troubles:

- NEAR module tamper
- Supervision Fail
- RF device Failure / Problem
- Incorrect dipswitch setting

Following detection of any of the said problems or failures, the NEAR module behaves as shown in the following table:

Problem name	Activity
NEAR module tamper	Activates NEAR units' tamper output
Supervision Failure	Activates NEAR units' supervision output. Trouble LED turns on.
RF device Failure / Problem	Trouble LED flashes at a fast rate. (after power on)
Incorrect dipswitch setting	All LEDs flash at a slow rate. (after power on)

5. Operational Information

The units should be no more than 300 meters from one another in an open field.

The Far unit has one dipswitch with eight buttons, the default for all of which is On. The end-user only uses button #7 to enroll the Near and Far units. When the user turns button #7 to Off, the Near unit recognizes the Far unit so the units work with each other.

The Far unit can also be attached to a REX (request for exit) button, a door monitor to indicate whether a door is open or closed, and a tamper to check whether the cover was opened. These indications are transmitted from the Far unit to the Near unit, which then sends them to the controller.

The proximity reader reads card information, and sends it from the Far unit to the Near unit and to the controller to determine which door to open. If applicable, the controller sends authorization to open the door to the Near unit, which transmits the authorization to the Far unit, and the door is opened.

Appendix A. Limited Warranty

ROSSLARE ENTERPRISES LIMITED S (Rosslare) TWO YEARS LIMITED WARRANTY is applicable worldwide. This warranty supersedes any other warranty. Rosslare's TWO YEARS LIMITED WARRANTY is subject to the following conditions:

Warranty

Warranty of Rosslare's products extends to the original purchaser (Customer) of the Rosslare product and is not transferable.

Products Covered By This Warranty and Duration

ROSSLARE ENTERPRISES LTD. AND / OR SUBSIDIARIES (ROSSLARE) warrants that the MD-W11 Wireless Access Control Door Interface, to be free from defects in materials and assembly in the course of normal use and service. The warranty period commences with the date of shipment to the original purchaser and extends for a period of 2 years (24 Months).

Warranty Remedy Coverage

In the event of a breach of warranty, ROSSLARE will credit Customer with the price of the Product paid by Customer, provided that the warranty claim is delivered to ROSSLARE by the Customer during the warranty period in accordance with the terms of this warranty. Unless otherwise requested by ROSSLARE ENTERPRISES LTD. AND / OR SUBSIDIARIES representative, return of the failed product(s) is not immediately required. If ROSSLARE has not contacted the Customer within a sixty (60) day holding period following the delivery of the warranty claim, Customer will not be required to return the failed product(s). All returned Product(s), as may be requested at ROSSLARE ENTERPRISES LTD. AND /OR SUBSIDIARY'S sole discretion, shall become the property of ROSSLARE ENTERPRISES LTD. AND /OR SUBSIDIARIES.

To exercise the warranty, the user must contact Rosslare Enterprises Ltd. to obtain an RMA number after which, the product must be returned to the Manufacturer freight prepaid and insured

In the event ROSSLARE chooses to perform a product evaluation within the sixty (60) day holding period and no defect is found, a minimum US\$ 50.00 or equivalent charge will be applied to each Product for labor required in the evaluation.

Rosslare will repair or replace, at its discretion, any product that under normal conditions of use and service proves to be defective in material or workmanship. No charge will be applied for labor or parts with respect to defects covered by this warranty, provided that the work is done by Rosslare or a Rosslare authorized service center.

Limited Warranty

Exclusions and Limitations

ROSSLARE shall not be responsible or liable for any damage or loss resulting from the operation or performance of any Product or any systems in which a Product is incorporated. This warranty shall not extend to any ancillary equipment not furnished by ROSSLARE, which is attached to or used in conjunction with a Product, or to any Product that is used with any ancillary equipment, which is not furnished by ROSSLARE.

This warranty does not cover expenses incurred in the transportation, freight cost to the repair center, removal or reinstallation of the product, whether or not proven defective. Specifically excluded from this warranty are any failures resulting from Customer's improper testing, operation, installation, or damage resulting from use of the Product in other than its normal and customary manner, or any maintenance, modification, alteration, or adjustment or any type of abuse, neglect, accident, misuse, improper operation, normal wear, defects or damage due to lightning or other electrical discharge. This warranty does not cover repair or replacement where normal use has exhausted the life of a part or instrument, or any modification or abuse of, or tampering with, the Product if Product disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.

ROSSLARE does not warrant the installation, maintenance, or service of the Product. Service life of the product is dependent upon the care it receives and the conditions under which it has to operate.

In no event shall Rosslare be liable for incidental or consequential damages.

Limited Warranty Terms

THIS WARRANTY SETS FORTH THE FULL EXTENT OF ROSSLARE ENTERPRISES LTD. AND ITS SUBSIDIARIES' WARRANTY

THE TERMS OF THIS WARRANTY MAY NOT BE VARIED BY ANY PERSON, WHETHER OR NOT PURPORTING TO REPRESENT OR ACT ON BEHALF OF ROSSLARE.

THIS LIMITED WARRANTY IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES. ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY EXCLUDED.

IN NO EVENT SHALL ROSSLARE BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, OR FOR ANY OTHER INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF TIME, COMMERCIAL LOSS, INCONVENIENCE, AND LOSS OF PROFITS, ARISING OUT OF THE INSTALLATION, USE, OR INABILITY TO USE SUCH PRODUCT, TO THE FULLEST EXTENT THAT ANY SUCH LOSS OR DAMAGE MAY BE DISCLAIMED BY LAW. THIS WARRANTY SHALL BECOME NULL AND VOID IN THE EVENT OF A VIOLATION OF THE PROVISIONS OF THIS LIMITED WARRANTY.

Appendix B. Declaration of Conformity

THIS EQUIPMENT 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 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 THE FOLLOWING MEASURES:

- 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.

Appendix C. Technical Support

Asia Pacific, Middle East

Rosslare Security Products Headquarters
905-912 Wing Fat Industrial Bldg,
12 Wang Tai Road,
Kowloon Bay Hong Kong
Tel: +852 2795-5630
Fax: +852 2795-1508
E-mail: support.apac@rosslaresecurity.com

United States and Canada

1600 Hart Court, Suite 103
Southlake, TX, USA 76092
Toll Free: +1-866-632-1101
Local: +1-817-305-0006
Fax: +1-817-305-0069
E-mail: support.na@rosslaresecurity.com

Europe, Africa

Global Technical Support & Training Center
HaMelecha 22
Rosh HaAyin, Israel 48091
Tel: +972 3 938-6838
Fax: +972 3 938-6830
E-mail: support.eu@rosslaresecurity.com

South America

Presbitero Actis 555, Oficina 31.
San Isidro. Buenos Aires. Argentina
Tel: +5411-5273-6383
Tel: +305-921-9919
E-mail: support.la@rosslaresecurity.com

Web Site: www.rosslaresecurity.com

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