

Installation Instructions

Supervised Wireless Repeater

1. General Description

The SA-29G is a high performance, supervised, wireless repeater for Rosslare's Millennium Wireless Security product line. SA-29G is compatible with a wide variety of wireless control panels, universal receivers, RF sensors, and remote controls.

Note 1: This product must be installed professionally, and has only one available channel.

Note 2: Pursuant to FCC §15.21 [54FR 17714, Apr. 25, 1989, as amended at 68 FR 68545, Dec. 9, 2003], changes or modifications made to equipment which are not

expressly approved by Rosslare Enterprises, Ltd., may void the user's authority to operate the equipment.

1.1. Standard Features

- 1) Integral rechargeable battery - provides up to 10 hours (UPS) backup power with up to 10 years standby battery life.
- 2) Supervision signal - transmitted every 20 minutes.
- 3) Case Tamper and optional Back Tamper.
- 4) Advanced microelectronics for ultra-low current consumption.

2. Technical Specifications

2.1. Electrical Characteristics

Primary Power Supply: +12V DC (+) Linear regulated; (-) GND: two terminal blocks.

Backup Power Supply: UPS Rechargeable Lithium-Ion Battery: 4.2 Volt 1600 mAh

Current Consumption: DC Powered Standby - 14.5 mA
DC Powered Transmit - 29 mA
Battery Powered Standby - 7.5 mA
Battery Powered Transmit - 20 mA

2.2. Environmental Characteristics

Operating Temperature: -5°C to +50°C (-23°F to +122°F)

Operating Humidity: Up to 95% non-condensing (max.)

RF Receiving Sensitivity: The integrated wireless receiver is rated at -111 dBm sensitivity for receiving incoming RF signals; 180 meters- Open Field

RF Transmission Output Power: SA-29G - up to 10 mW or 10 dBm; 200 m (approx 600 feet) - Open Field

RF Transmission Frequency: 433.92 or 868.35 MHz

Cover Tamper Switch: Detects the removal of the SA-29G front cover.

Back Tamper Switch: Detects the removal of the SA-29G from the wall (optional using Jumper).

Supervisor: The supervisory signal is routinely transmitted to the control panel every 20 minutes, advising the Tamper Status, Battery Status, and Event Activation Status.

2.3. Physical Characteristics

Dimensions: 100mm x 76mm x 27mm (3.93in. X 2.99in x 1.062in)

Weight: 116 grams (4.09 oz)

3. Installation – General Information

The SA-29G Repeater detects the RF transmissions from the Rosslare sensors and remote controls in its vicinity, and re-transmits them to the main control unit.

Caution: AVOID mounting on or near large metal surfaces or reinforced concrete walls which may interfere or block the wireless signals. Test the range from the desired location using the RF test procedure described in section 0.

Caution: To prevent false tamper signals, make sure that after enrolling the repeater, the Case and Back Tamper are secure.

Caution: BATTERY WARNING!!! DO NOT REMOVE, DE-SOLDER, SHORT-CIRCUIT OR BURN THE BATTERY ON THE UNIT. THIS MAY CAUSE PERMANENT DAMAGE TO THE BATTERY.

- 2) When prompted, generate a transmission from the SA-29G Repeater unit using the cover Tamper Switch (the SA-29G must be connected to DC power).

Note: The SA-29G will identify any Rosslare wireless product, by protocol. It will repeat any transmission it receives so the transmission reaches other devices that are part of the setup (e.g., Wireless Keypads, Control Panels and/or Wireless Sirens).

4.3. Mounting the SA-29G onto the Wall

- 1) Remove the plastic screw cover from the SA-29G front cover (see **Figure 1**), to reveal the case-locking screw.
- 2) Unscrew the case locking screw and remove the front cover.

CAUTION: Do not touch any of the circuitry.

- 3) Using the back case as a template, mark the locations of the holes on the wall, and then drill the desired holes. It is recommended to install the unit in a high position to prevent tampering.

4. Installation Instructions

4.1. Recharging the Battery

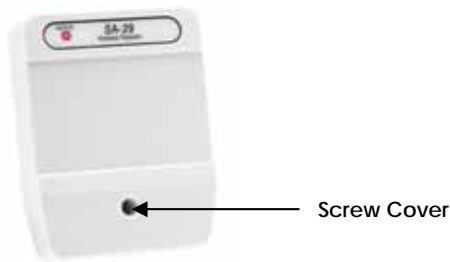
Recharge the battery the first time you operate the SA-29G, or if you are using the unit after it has been out of service for a prolonged period of time.

Recharge the UPS battery for at least 7 hours, to make it fully functional.

4.2. Enrolling to the Host Control Panel

- 1) In the appropriate RF zone, enter the programming menu of the host. Go to the Repeater Zone and select the RF device.

Figure 1: SA-29G Front Cover



4.4. Connecting the Power and Setting the Back Tamper Operation Logic.

- 1) While wiring the power, remove the power supply from the mains.
- 2) Run the two power wires (+12V DC) and (-) through the hole provided in the back case, and connect to the terminal blocks for Vin (see **Figure 2**): Connect the Ground (-), and then the (+12Volts DC).
- 3) Use the jumper to enable or disable the back tamper:

Jumper In-Place -> Back Tamper Disabled

Jumper Removed -> Back Tamper Enabled
(see **Figure 2**).

Caution: Make sure the casing is mounted flush onto the mounting surface to prevent false Back Tamper signals.

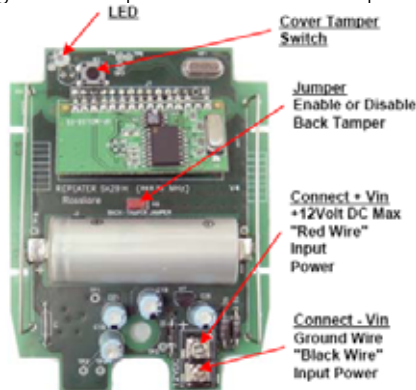


Figure 2: Connecting 12Vdc Power

4.5. Testing the Installation:

- 4) Perform the RF test by entering the Host's RF test feature, and transmitting to the Host using the SA-29G cover tamper switch.
- 5) Perform a visual test using the LED of the SA-29G to see that the unit's repeating function is functioning properly; The LED flashes each time the SA-29G transmits.

4.6. Finishing the installation:

- 6) When all the above instructions have been followed, and the unit is functioning, replace the tap cover and screw (a security screw may be used for additional protection).
- 7) Replace the plastic screw cover.

5. Limited Warranty

ROSSLARE ENTERPRISES LIMITED S (Rosslare) TWO YEAR LIMITED WARRANTY is applicable worldwide. This warranty supersedes any other warranty. Rosslare's TWO YEAR 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 SA-29G Supervised Wireless Magnetic Contact Sensor is 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.

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, nor 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, 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.

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