

SA-29

ROSSLARE
SECURITY PRODUCTS

Supervised Wireless Repeater Installation Manual

April 2013

1. General Description

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

1.1 Standard Features

- Integral rechargeable battery – Provides up to 10 hours (UPS) backup power with up to a 10-year standby battery life
- Supervision signal – Transmitted every 20 minutes
- Case tamper and optional back tamper
- Advanced microelectronics for ultra-low current consumption

Figure 1: SA-29



2. Technical Specifications

2.1 Electrical Characteristics

Primary Power Supply	12 VDC (+) Linear regulated; (-) GND: two terminal blocks
Backup Power Supply	UPS Rechargeable Lithium-Ion Battery: 4.2 V, 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 Physical Characteristics

Dimensions (L x W x H)	100 x 76 x 27 mm (3.93 x 2.99 x 1.062 in.)
Weight	116 grams (4.09 oz.)

2.3 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	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 front cover
Back Tamper Switch	Detects the removal 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.

3. Installation – General Information

The SA-29 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 4.5.



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.

4. Installation Instructions

4.1 Recharging the Battery

Recharge the battery the first time you operate the SA-29, 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.
2. Go to the Repeater Zone and select the RF device.
3. When prompted, generate a transmission from the SA-29 Repeater unit using the cover Tamper Switch (the SA-29 must be connected to DC power).

4.3 Mounting the SA-29 onto the Wall

1. Remove the plastic screw cover from the SA-29 front cover to reveal the case-locking screw.
2. Unscrew the case locking screw and remove the front cover.



Caution

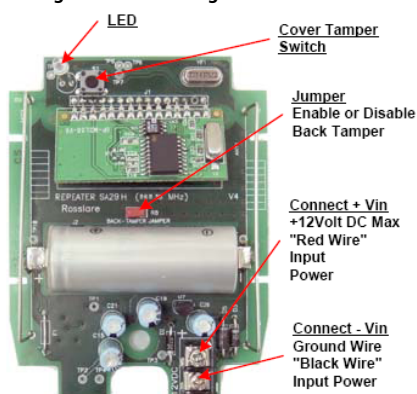
Do not touch any of the circuitry.

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.

4.4 Connecting the Power and Setting the Back Tamper Operation Logic

1. When wiring the power, remove the power supply from the mains.
2. Run the two power wires (+12 VDC) and (-) through the hole provided in the back case.
3. Connect to the terminal blocks for Vin (Figure 2), connecting the Ground (-) and then the (+12 VDC).

Figure 2: Connecting to 12 VDC Power



4. Use the jumper to enable or disable the back tamper (Figure 2):
 - Jumper in place -> Back tamper disabled
 - Jumper removed -> Back tamper enabled



Make sure the casing is mounted flush onto the mounting surface to prevent false back tamper signals.

4.5 Testing the Installation

1. Perform the RF test by entering the Host's RF test feature, and transmitting to the host using the SA-29 cover tamper switch.
2. Perform a visual test using the LED of the SA-29 to see that the unit's repeating function is functioning properly.

The LED flashes each time the SA-29 transmits.

4.6 Finishing the Installation

1. 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).
2. Replace the plastic screw cover.

Limited Warranty

ROSSLARE ENTERPRISES LIMITED (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:

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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 a ROSSLARE 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'S sole discretion, shall become the property of ROSSLARE.

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THIS WARRANTY SHALL BECOME NULL AND VOID IN THE EVENT OF A VIOLATION OF THE PROVISIONS OF THIS LIMITED WARRANTY.

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