

# SA-26/27/28

## 1/2/4-Button Remote Control Transmitters for Access Control Installation Manual

December 2011

### 1. General Description

The SA-26/27/28 is a miniature radio transmitter designed to send coded RF IDs to wireless receivers. The transmissions are activated by pressing one of the pushbuttons on the unit (see Figure 1).

The SA-26/27/28 can control up to four functions when used with Rosslare's AY-L23 Wireless RF Reader. The SA-26/27/28 is a battery operated wireless device using two 1.5 V AAA Alkaline batteries. A LED lights during the transmission of the RF. If the LED does not light during the transmission, the battery should be replaced immediately.

SA-26/27/28 is a high quality wireless sensor packed with intelligent wireless features. Inside the SA-26/27/28 is a state of the art microprocessor, with ASK RF transmitter technology. It is encoded with 16 million factory programmed non-recurring ID codes, ensuring that multiple units can be used on a single system.

Figure 1: SA-26/27/28 C/E



### 2. Technical Specifications

#### 2.1 Electrical Characteristics

**Battery:** Two 1.5 V AAA Alkaline batteries



Use only the specified 1.5 V Alkaline batteries.

**Current:** Standby – 0 uA; Transmit 16 mA

**Alarm Transmit:** 500 ms (milliseconds)

#### 2.2 Environmental Characteristics

**Operating Temperature:** -10°C to 50°C (14°F to 122°F)

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

**Tamper:** SA-26/27/28 has no tamper transmission

**Supervisor:** SA-26/27/28 is not a supervised transmitter

**RF Frequency:** Available in 433.92 MHz (C) or 868.35 MHz (E)

**Usage:** Carried in a pocket, or worn on a belt; for indoor (dry) use only

#### 2.3 Physical Characteristics

**Dimensions (H x W x D):** 104 x 40 x 15 mm (4.09 x 1.57 x 0.59 in.)

**Weight:** 56 g (1.975 oz.) including battery

**Color:** Grey

### 3. Operation – General Information

The SA-26/27/28 remote control is activated by pressing the buttons on the unit to transmit this information to the receiver panel.

Each button sends an ID code to the panel, which is equivalent to swiping a card with the same ID that is predefined in the panel.

Since the SA-26/27/28 is a portable wireless device, system reception is dependent upon the conditions of use as follows:

- AVOID using on or near large metal surfaces and multiple concrete/steel walls. This may interfere or block the wireless signals. Make sure to test the range from the desired location by using the RF Test Procedure to ensure reception.
- AVOID placing the SA-26/27/28 near strong magnetic or electrical fields other than the magnet with which it is intended to be used. Otherwise, performance can be affected, and false alarms can occur.
- When the battery power is depleted, as indicated by a very dim LED, replace the battery immediately.

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## 4. Installation Instructions

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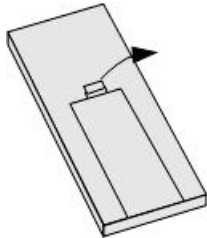
### 4.1 Installing the Battery

Use only the specified AAA-sized 1.5-V Alkaline battery.

**To install the battery:**

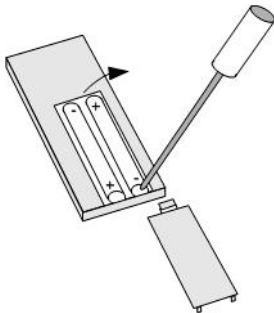
1. Turn the unit over and push the battery compartment cover latch down and lift to open (Figure 2).

**Figure 2: Back of the SA-26/27/28 Housing**



2. For a new unit, simply remove the plastic strip contact breaker.
3. For replacement, remove the old batteries using a small screwdriver (see Figure 3).

**Figure 3: Replacing the 2 AAA Batteries**



4. Install the new batteries in the correct alignment. The polarity of each battery (+) and (-) must coincide with the markings (+) and (-) on the plastic.
5. Check that the battery is held securely.



Dispose of the old battery properly; do not incinerate, heat, disassemble, or recharge.

### 4.2 Testing the Transmission

After activating or replacing the battery in the SA-26/27/28, test the transmitter.

**To test the transmitter:**

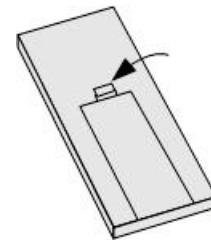
1. Press each one of the buttons on the remote control to see if there is a transmission.
2. Check the AY-L23 RF Reader and the access control panel to see that each transmission is received.

### 4.3 Closing the Cover

**To close the front cover:**

1. Place the battery compartment cover back into the latch and swing shut until the top latch clicks shut (Figure 4).

**Figure 4: Replacing the Back Cover**



2. Replace the locking screw.

### 4.4 Receiver Compatibility

The SA-26/27/28 in 433.92 MHz (C) or 868.35 MHz (E) frequency is compatible with Rosslare's AY-L23 Wireless Receiving Wiegand 26-bit Reader.

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## 5. Miscellaneous Comments

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Our wireless remote controls are very reliable and are tested using high standards. However, due to their low transmitting power (required by international standards imitations), the following limitations should be considered:

- Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the ID.
- A receiver can respond to one transmitted signal at a time.
- Wireless equipment should be tested regularly (at least once a week) to determine if there are sources of interference and to protect against faults.

## 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:

### 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-26/27/28 1/2/4 - Button Remote Control Transmitter 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 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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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.

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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.

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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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