

Weather Resistant Wireless Receiver
AY-L23
Installation & Operating Guide



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ROSSLARE
SECURITY PRODUCTS

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1. Introduction

The AY-L23 is a weather resistant wireless receiver, compatible with all of Rosslare's wireless remote control transmitters. When receiving an ID from a wireless transmitter, the AY-L23 will output the ID in 26-Bit Wiegand format to an attached 26-Bit Wiegand controller.

See Page 8 for a list of compatible transmitters.



2. Mounting Instruction

To mount the receiver, perform the following:

- 1) Determine an appropriate mounting position for the receiver. Do not mount the receiver near any source of wireless interference or on any metal surface.
- 2) Peel off the back of the self-stick mounting label template included with the unit and place at the desired mounting position.
- 3) Using the template as a guide, drill two holes (hole size is indicated on mounting template) for mounting the receiver to the surface.
- 4) Drill a 7/16" (10mm) hole for the cable.
- 5) Remove the front case from the receiver.
- 6) Attach the receiver to the controller. (See wiring instructions)
- 7) Screw the receivers rear case on to its mounting location see and return the front case onto the mounted rear case.

The receiver is to be used with control panels whose power supply is UL Listed Class 2 or equivalent.

3. Wiring Instruction

The receiver is supplied with an 18-inch pigtail, having a 6-wire cable. To connect the receiver to the Controller, perform the following steps:

- 1) Prepare the receiver cable by cutting the cable jacket back 1 1/4 inches and strip the wires 1/2 inch.
- 2) Prepare the Controller cable by cutting the cable jacket back 1 1/4 inches and strip the wires 1/2 inch.
- 3) Splice the receiver's pigtail wires to the corresponding Controller wires and cover each connection (see the table on Page 2).
- 4) If the tamper output is being utilized, connect the purple wire to the correct input on the Controller.
- 5) Trim and cover all conductors that are not used.

The table below shows how you should wire the receiver to the Controller.

Color	Wiegand Output
Red	DC + Input
Black	Ground
White	Data 1
Green	Data 0
Brown	LED Control
Purple	Tamper

Wiring Instruction



Note:

- The individual wires coming out of the receiver are color coded according to the recommended Wiegand standard.
- When using a separate power supply for the receiver, this supply and the Controller's power supply must have a common ground.
- The cable shield wire on the receiver should be attached to an Earth ground (best) or signal ground connection at the panel or power supply end of the cable. This configuration is best for shielding the receiver cable from external interference.

4. Operation Instruction

The receiver should be tested after wiring it to a power supply and the Controller. Do this by performing the following steps:

- 1) Power up the receiver.
- 2) Transmit using a Rosslare wireless remote control to the receiver. The LED will momentarily flash green and a short beep will be emitted. This indicates that the transmission has been received properly by the receiver.
- 3) After the data is processed by the Controller, the Controller can then turn the LED green. Refer to the Controller description of the LED operation if the receiver LED is controlled by the Controller.

Compatible Transmitters

5. Compatible Transmitters

SA-03	Three-Button Remote Control
SA-26	One Button Remote Control
SA-27	Two-Button Remote Control
SA-28	Four-Button Remote Control

6. Specifications

Power Supply Type	Linear type recommended
Operating Voltage Range	5 - 16 VDC
Maximum Input Current	Standby : 25 mA Receive : 55 mA
Tamper Output	Open collector, active low, max. sink current is 16 mA
Maximum Cable Distance to Controller	150 meters (500 ft.)
Output Modulation: frequencies	26-Bit Wiegand C: 433 MHz E: 868 MHz
Read Range:	165ft (50m)
Operating Temp. Range:	-31°C to 63°C (-25°F to 145°F)
Operating Humidity:	0 to 95% (non condensing)
Dimensions (LxWxD):	5.7 x 1.7 x 0.8 inches 145 x 43 x 20 mm

Technical Support

Appendix A. Technical Support

Asia Pacific, Middle East, Africa

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

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

Pringles 868, 1640 Martinez
Buenos Aires
Argentina
Tel: +54 11 4798-0095
Fax: +54 11 4798-2228
E-mail: support.la@rosslaresecurity.com

Web Site: www.rosslaresecurity.com

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WWW.ROSSLARESECURITY.COM



0706-0960174+00