AY-L23 E

Long Range Wireless to Weigand 26 Receiver

The advanced **LongArm™** AY-L23 E Wireless UHF RF to Weigand 26_Bit Reader with anti-collision technology works in 868.35 MHz Receive Mode. By Receiving 3-Bytes of ID information from remote controls, it acts as an ID card read to the controller. Compatible with Rosslare's "SA-26 E", "SA-27 E", "SA-28 E" One, Two, Four Button remote controls it is suitable for residential, commercial and institutional security and access control applications. .Family called "**LongArm™**"

GENERAL DESCRIPTION

The "**LongArm™**" AY-L23 E is a wireless receiver unit used in both indoor and outdoor applications. The input to the unit comes from long range remote controls, from 50 to 80 meters open range.

The "**LongArm™**" AY-L23 E provides a long range reader solution for activating barriers or electronic gates from a distance that is unattainable by either a passive RFID card, or and active RFID Card and reader.

There by "**LongArm™**" is an economical solution for controlling multiple remote barriers and gates from a remote tower, or for security guards which manage barrier entry to car parks following security searches, etc. Perfect for situations where the reader is behind the wall.

"**LongArm™**" AY-L23 E is powered by any commonly available access controller which is compatible with 26-Bit wiegand format, and has LED control, Back Tamper Optical, potted epoxy for all weather application.

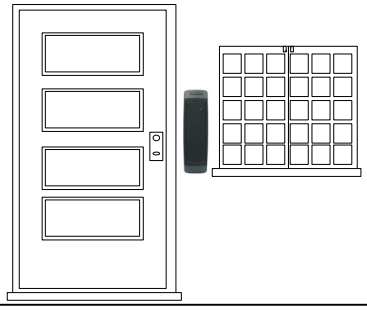
Model : "LongArm™"
AY-L23 E

MAIN FEATURES

> **Excellent RF Performance**, AM / ASK in frequency for Western Europe and Scandinavia
> Modern attractive design with small footprint, designed with **internal antenna** to prevent tamper.
> Microprocessor and SMT Designed electronics for higher quality, and superior performance.
> Includes **Optical Wall Tamper Detection** Method (Functions as Case Tamper Also)
> Ultra Low Current COnsumption with RF **Sensitivity of -107 dBm**
> Contains LED Control Wire to select the RED or Green LED Function
> Mounts directly onto a flat surface.
> The receiver is to be used with control panels whose power supply is UL Listed Class 2 or equivalent.
> **Internal Buzzer** Audio Verification of Good RF Read

APPLICATIONS

> **Access Control System Component**
> **Automatic Door Controls**
> **Monitored Car Park Entry Systems**
> **Secure Door Guard Control**
> **Hidden Portable Access Control.**



IMPORTANT INSTALLATION NOTE.

1.The individual wires coming out of the receiver are color coded according to the recommended Wiegand standard.
2. When using a separate power supply for the receiver, this supply and the Controller's power supply must have a common ground.
3. 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.

INSTALLATION AND WIRING

The "**LongArm™**"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 11/4 inches and strip the wires ½ inch.
2.Prepare the Controller cable by cutting the cable jacket back 11/4 inches and strip the wires ½ 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

SPECIFICATIONS

Power Supply Type: Linear regulated type recommended
Vin: +6 to +12 V DC

Read Range: From 50 meters and up to 80m in open space.

Operating Temp: 0°C to + 63°C
(32°F to + 145°F)

Operating Humidity: Up to 100% Condensing (max.)

RF Center Frequency: E Series -868.35, C-Series 433.92 MHz, G-Series 868.25 MHz, C MHz

Installation: Indoor and Outdoor Applications Weather Resistant Construction.

Max Cable Distance to Controller: 500 ft (150m)

Tamper Optical Wall Tamper: Case is protected from Wall tamper by an optical detection mechanism which can detect tamper by pulling the unit off of the wall.

Tamper Optical Cover Tamper: Cover is protected by means of an optical detection element. Wired Tamper output.

Current Consumption: Standby :25 mA
Receive : 55 mA

Size: 145mm (L) x 43mm (W) x 21 mm (D)
5.7 " (L) x 1.7 " (W) x 0.8 "(D)

Weight: 138 grams (4.86 oz) Net Weight

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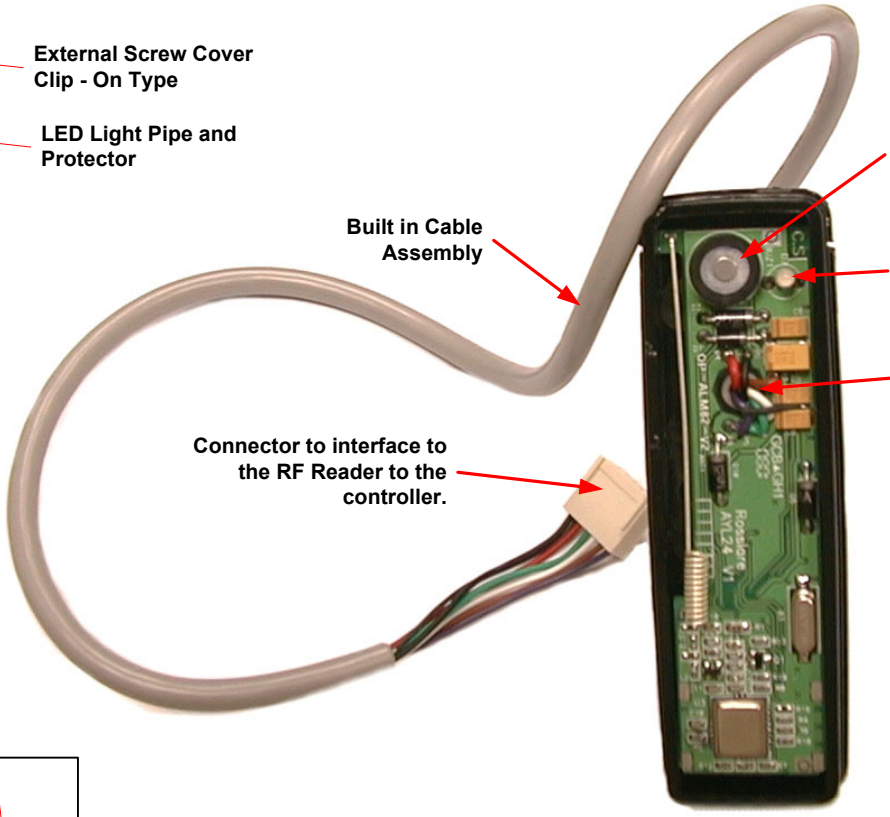
PRODUCT DETAILS

External Screw Cover Clip - On Type

LED Light Pipe and Protector

Front of Unit



Built in Cable Assembly

Internal Buzzer for Audio Verification of a good read

Bi-Color LED with LED Control LIne

Cable Connection to the unit (PCB Front View) -see connection diagram below.

Connector to interface to the RF Reader to the controller.

Front of PCB

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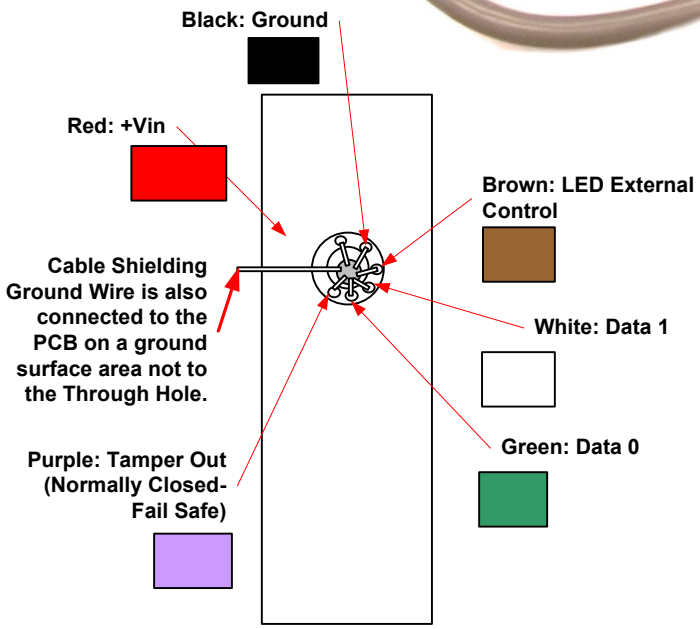


Black: Ground

Red: +Vin

Brown: LED External Control

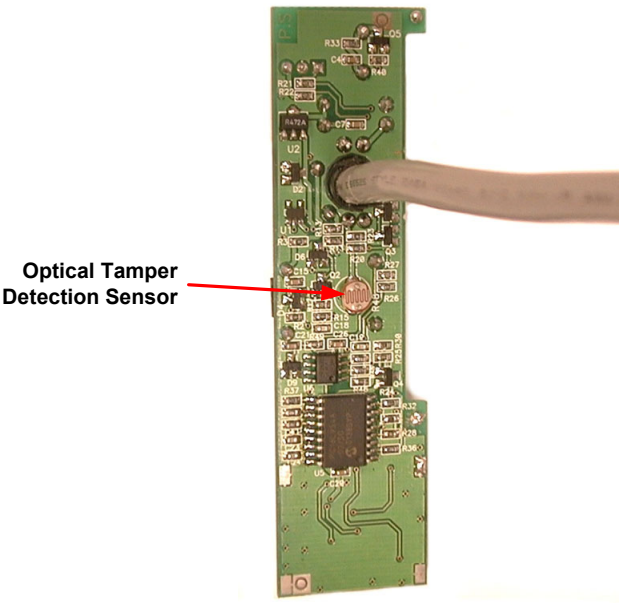
White: Data 1

Green: Data 0

Cable Shielding Ground Wire is also connected to the PCB on a ground surface area not to the Through Hole.

Purple: Tamper Out (Normally Closed- Fail Safe)

Front of PCB



Optical Tamper Detection Sensor

Back of PCB

EUROPEAN EMC/RF/SAFETY/ STANDARDS

EN300220 – European RF Standards
EN301489 – Safety Standards
EN50081 - EMC
EN60950 (ITE)