

# AY-CR/DR 11W/12W

## Indoor Proximity Readers

### Installation Manual

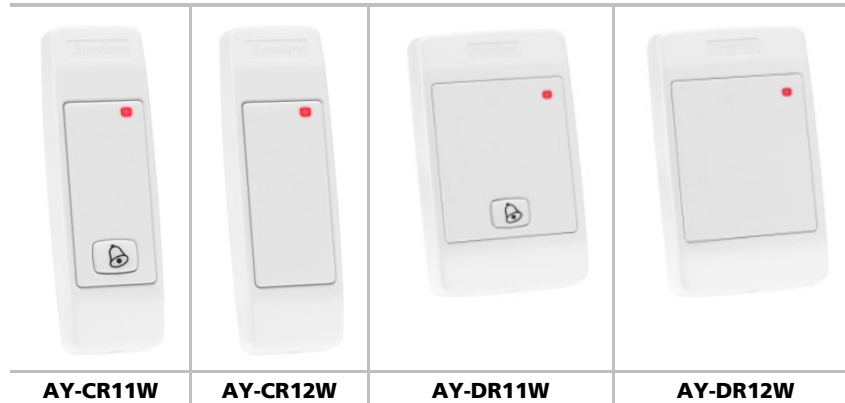
#### 1. Introduction

The AY-CR11W/12W and AY-DR11W/12W are Wiegand 26-Bit proximity card readers, for indoor use with compatible controllers. They are easy to install and tamper resistant.

The AY-CR11W/12W units are mullion-sized, while the AY-DR11W/12W units are sized for US Gang Box. The AY-CR11W and AY-DR11W units additionally come with a bell button.

The units feature a LED indicator and an internal buzzer.

The units are crafted out of the finest materials and to the highest manufacturing standards under Rosslare's ISO 9001:2000 Certified Quality standards: CE certification for Safety and Access Control Standards.



#### 2. Technical Specifications

##### 2.1 Electrical Characteristics

<b>Power Supply Type</b>	Linear type (recommended)
<b>Operating Voltage Range</b>	12 to 16 VDC
<b>Absolute Maximum (non-operating)</b>	18 VDC
<b>Current @ 12 V</b>	Standby : 25 mA Read : 60 mA
<b>Tamper Output</b>	Via Wiegand Data
<b>Maximum Cable Distance to Controller</b>	150 m (500 ft)
<b>RF Modulation</b>	ASK, 125 kHz
<b>Card Read Distance*</b>	AY-CR11W: 60 mm (2.4 in.) AY-CR/DR12W: 80 mm (3.2 in.) AY-DR11W: 100 mm (3.9 in.)
<b>Regulatory Approvals</b>	Europe: CE Listed

\* Measured using a Rosslare proximity card or equivalent. Range also depends on electrical environment and proximity to metal.

##### 2.2 Environmental Characteristics

<b>Environment</b>	Indoor
<b>Operating Temperature Range</b>	-31°C to 63°C (-25°F to 145°F)
<b>Operating Humidity Range</b>	0 to 95% (non-condensing)

##### 2.3 Physical Characteristics

<b>Dimensions (H x W x D)</b>	AY-CR11W/12W: 130 x 41.7 x 19 mm (5.1 x 1.6 x 0.8 in.) AY-DR11W/12W: 122 x 74 x 18.5 mm (4.8 x 2.9 x 0.7 in.)
<b>Weight</b>	AY-CR11W: 75 g (2.7 oz) AY-CR12W: 70 g (2.5 oz) AY-DR11W/12W: 100 g (3.5 oz)

#### 3. Mounting



Installation of an RFID reader adjacent to metallic surfaces might alter the reader's specifications. To diminish this interference, use a plastic spacer when mounting the reader.

##### To mount the unit:

1. Use a cross head screwdriver to remove the cross head screw holding the top cover to the cabinet.
2. Pry the cover off the cabinet.
3. Mount the reader with the appropriate screws (not supplied) to a desirable position.
4. Snap back the top cover after wiring the terminal block.



If higher level of security is required, use the T-10 security screw attached to the cabinet in place of the cross head screw. T-10 screwdriver is sold separately.

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## 4. Wiring

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Before proceeding, you must check that the power supply is disconnected from the mains.

### ***To wire the unit:***

1. Thread a four-wire low voltage cable to the terminal block and connect the wires as follows:
  - Wire No.1 – Connect one end to the (VIN) terminal on the reader and the other end to the 12–16 VDC positive output of the controller.
  - Wire No.2 – Connect one end to the (-) terminal on the reader and the other end to the 12–16 VDC negative output of the controller.
  - Wire No.3 – Connect one end to the (D0) terminal on the reader and the other end to the respective D0 input of the controller.
  - Wire No.4 – Connect one end to the (D1) terminal on the reader and the other end to the respective D1 input of the controller.

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## 5. Testing

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The reader should be tested after wiring it to the controller and a power supply.

### ***To test the reader:***

1. Power up the Reader. The LED lights red and the unit beeps three times.

This indicates that the reader is working properly.
2. Present the appropriate type of proximity card to the reader. The LED momentarily flashes green and a short beep is emitted.

This indicates that the card is being read properly by the reader.

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## Limited Warranty

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The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at [www.rosslaresecurity.com](http://www.rosslaresecurity.com).

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

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• EN ISO 13485



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