



# ARD-AYJ12 - RFID Proximity Reader



- ▶ Reader with beeper and multicolored LED display
- ▶ Wiegand output for EM
- ▶ Indoor and outdoor mounting

## Certifications and Approvals

USA: UL 294 & FCC Part 15B

Europe: CE

## Installation/Configuration Notes

The ARD-AYJ12 is supplied with an 18 inch (45 cm) pigtail. The table below shows how to wire the reader to the controller.

| COLOR  | WIEGAND OUTPUT |
|--------|----------------|
| Red    | DC + Input     |
| Black  | Ground         |
| White  | Data 1         |
| Green  | Data 0         |
| Brown  | LED Control    |
| Purple | Tamper         |

**Note** When using a separate power supply for the reader, this supply and the cable shield wire on the reader should be attached to an earth ground (best) or signal ground connection at the panel or power supply end of the cable.

## Technical Specifications

### Electrical Characteristics

|                         |  |
|-------------------------|--|
| Power supply type       | Linear type recommended                                |
| Operating voltage range | 5 – 16 VDC   |
| Maximum input current   | Standby: 35 mA<br>Read: 50 mA                          |
| Tamper output           | Open collector, active low,<br>max. sink current 16 mA |
| RF modulation           | ASK  |

### Ranges

|                                   |   |
|-----------------------------------|---|
| Max. cable distance to controller | 500 ft. (150 m)                               |
| Operating temperature range       | -25°F to 145 °F (-31 °C to 63 °C)             |
| Operating humidity                | 0 to 95% (non condensing)                     |
| Read range*                       | 3.94 inch (10 cm)                             |
| Dimensions (H x W x D)            | 4.72 x 1.65 x 0.55 inch<br>(120 x 42 x 14 mm) |

\* The reading range depends on card type, electrical environment, and/or proximity to metal.

**Ordering Information**

|  |                  |
|--|------------------|
| <b>ARD-AYJ12 - RFID Proximity Reader</b>   | <b>ARD-AYJ12</b> |
| Access control card reader with Wiegand output for 125 kHz card technology (EM). |                  |

**Accessories**

|  |                     |
|--|---------------------|
| <b>ACD-ATR11ISO - RFID Card</b>  | <b>ACD-ATR11ISO</b> |
| Standard 125 kHz proximity read-only card for Wiegand readers type W 3. Packing information: 25 cards/ each unit |                     |

|   |                    |
|---|--------------------|
| <b>ACD-ATR14CS - RFID Card</b>  | <b>ACD-ATR14CS</b> |
| Clamshell standard 125 kHz proximity read-only card for Wiegand readers type W 3. Packing information: 25 clam shell cards/ each unit |                    |

|   |                  |
|---|------------------|
| <b>ACA-ATR13 - RFID Tag</b>   | <b>ACA-ATR13</b> |
| 125 kHz proximity read-only tag for Wiegand readers type W 3. Packing information: 25 tags/ each unit |                  |

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