

# AY-Z12A

## Long Range Outdoor Proximity Reader



THE COMPARATIVELY COMPACT AY-Z12A OFFERS THE BEST SOLUTION FOR LONG-RANGE RFID PROXIMITY READERS FOR STANDARD PASSIVE PROXIMITY CARDS AND TAGS, AT AN AFFORDABLE COST. ASIDE OF ITS SMALL SIZE AND EASE OF USE, THIS READER PROVIDES THE SAME FEATURES THAT COME STANDARD IN ALL OF ROSSLARE'S READERS AND CONTROLLERS, HIGH-QUALITY, DURABILITY, AND AESTHETIC DESIGN.

### GENERAL DESCRIPTION

The AY-Z12A is the low-cost solution for security situations that require a relatively compact, Long-Range proximity reader. The state-of-the-art design and small footprint is ideal for indoor/outdoor access control that is both easy to install and easy to use. The AY-Z12A features an output format of standard Wiegand 26 Bits, which will allow it to work with most common controllers. For added convenience, the reader also contains tri LED indicators that provide the unit's status upon power up and the status for card reading attempts.

### MAIN FEATURES

- Wiegand 26 Bit output format
- RFID read range:
  - Up to 23.6 in. (60 cm) in single mode
  - Up to 17.7 in. (45 cm) in multiple mode
- Operating voltage range of 10 to 16 VDC
- 23.6 in. (60 cm) shielded interface cable

### PROFFESIONAL GRADE FEATURES

- RF Modulation: ASK at 125 kHz
- Compatible with standard, passive EM type, cards and tags
- Internal buzzer
- LED control input
- Optical wall tamper detection
- Water-resistant with epoxy potting (IP65) suitable for indoor and outdoor applications
- Made of tough polycarbonate UV-resistant plastic

# SPECIFICATIONS

## ELECTRICAL SPECIFICATIONS

|                           |  |
|---------------------------|--|
| ■ Operating Voltage Range | 10-16 VDC, from a regulated power supply   |
| ■ Input Current           | Standby: 280 mA at 12 VDC<br>Maximum: 330 mA at 12 VDC   |
| ■ LET Control             | Dry Contact, N.O.  |
| ■ Proximity               | Maximum read range*:<br>23.6 in. (60 cm) – single mode, 17.7 in. (45 cm) – multiple mode<br>Modulation: ASK at 125 kHz<br>Compatible cards: All 26-Bit EM Cards<br>* Measured using Rosslare Prox Card AT-R14 or equivalent.<br>Range also depends on electrical environment and proximity to metal. |
| ■ Tamper                  | Optical back tamper sensor, O.C. active low 30 mA max sink current   |

## OPERATIONAL SPECIFICATIONS

|                 |   |
|-----------------|---|
| ■ Output Format | Wiegand 26-bit  |
| ■ Audio/Visual  | Tri-color LED indicator, Built-in sounder   |
| ■ Design        | Epoxy potted, fully sealed in a rugged polycarbonate enclosure. Suitable for harsh environments |

## ENVIRONMENTAL SPECIFICATIONS

|                         |  |
|-------------------------|--|
| ■ Operating Environment | Water resistant, suitable for outdoor use (IP54 rated) |
| ■ Operating Temperature | -22°F to 145°F (-30°C to 63°C)                         |
| ■ Operating Humidity    | 0 to 95% (non-condensing)                              |
| ■ RFI Protection        | > 20 V/m up to 1000 MHz                                |

## MECHANICAL SPECIFICATIONS

|                          |  |
|--------------------------|--|
| ■ Dimensions (H x W x D) | 11.8 x 11.8 x 1 in. (30 x 30 x 2.5 cm) |
| ■ Weight                 | 2.35 lbs (1.066 kg)                    |

## SYSTEM COMPONENTS

The AY-Z12A is compatible with a variety of Rosslare's access controllers (AC-215, AC-115, AC-020, AC 015), as well as with many third party access control systems.

## PRODUCT WARRANTY

5-year Limited Product Warranty

## ABOUT ROSSLARE SECURITY

Rosslare Security Products, a division of Rosslare Enterprises Ltd., has been manufacturing high-quality security products since 1980. The company's three main lines – Access Control, Intrusion Detection and Guard Patrol – together with a growing product range have transformed Rosslare Security into a major worldwide force in security. Rosslare holds itself to the highest standards of customer service and manufacturing (ISO 9001:2008, ISO 14001:2004, ISO 13485:2003). The company complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

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