

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:
 - 23.6" (Up to 60cm) in single mode
 - 17.7" (Up to 45cm) in multiple mode
- Operating voltage range of 10 to 16 VDC
- 23.6" (60cm) shielded interface cable
- Backed by Rosslare's International Guarantee and service with ISO9001 (Certified TUV Rhineland) level business and manufacturing operations

PROFESSIONAL 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

AY-Z12A Long Range Outdoor Proximity Reader



Product Specifications

ELECTRICAL CHARACTERISTICS	
• Operating Voltage Range:	10-16 VDC, from a regulated power supply.
• Input Current:	Standby: 280mA at 12 VDC Maximum: 330mA at 12 VDC
• LED Control:	Dry Contact, N.O.
• Proximity:	Maximum read range*: 23.6 inch (60cm) – single mode, 17.7 inch (45cm) – multiple mode Modulation: ASK at 125 kHz Compatible cards: All 26-Bit EM Cards * Measured using Rosslare Prox Card AT-R14 or equivalent. Range also depends on electrical environment and proximity to metal.
• Tamper:	Optical back tamper sensor, O.C. active low 30mA max sink current
OPERATIONAL CHARACTERISTICS	
• Output Format:	Wiegand 26 Bits
• Audio/Visual:	Tri-color LED indicator, Built-in sounder
• Design:	Epoxy potted, fully sealed in a rugged polycarbonate enclosure. Suitable for harsh environments.
ENVIRONMENTAL CHARACTERISTICS	
• 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
PHYSICAL CHARACTERISTICS	
• Dimensions:	11.8 x 11.8 x 1 inch (30 x 30 x 2.5 cm)
• Weight:	2.35 lbs (1.066kg)

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.



AC-115



AC-215



AC-225

Additional Information

The AY-Z12A is covered by Rosslare's 5-year Limited Product Warranty.

For sales information or product documentation, please visit our website: www.rosslaresecurity.com



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