

## AY-K12

### Advanced Wiegand 26-Bit RFID Proximity Reader

Rosslare's AY-K12 is a powerful RFID proximity card reader of 125 KHz cards and tags, featuring Wiegand 26-Bit output format and a read range of up to 80 mm (3.15 inches). With a sleek design and a tough, UV-resistant, water-resistant casing, the AY-K12 is equally suited to indoor and outdoor use. Economical and reliable.

**Certified compliance with all leading International Safety and Access Control standards.**

### General Description

The AY-K12 with Wiegand 26-Bit output format reads RFID 125 KHz ASK-type EM cards from a range of up to 80 mm (3.15 in.)\*.

Designed for easy mounting with hidden screws (security screws may be used to enhance strength) and cover. Optical tamper adds protection against wall removal, and the buzzer adds audible RFID card read. LED control can give system based information to the end user.

The AY-K12 is crafted out of the finest materials and to the highest manufacturing standards under Rosslare's ISO 9001:2000 Certified Quality standards.

\* Based on AT-R14



### Main Features

- Backed by Rosslare's International Guarantee and service with ISO9001 (Certified TUV Rhineland) level business and manufacturing operations.
- Wide range operating voltage: 5 to 16VDC.
- Excellent RFID card read range of up to 80 mm (3.15 in.).

#### PROFESSIONAL GRADE FEATURES

- RF modulation: ASK at 125 kHz.
- Internal buzzer.
- LED color control input.
- Optical wall tamper detection.
- Water-resistant with epoxy potting (IP65), suitable for indoor and outdoor use.
- Made of tough polycarbonate UV-resistant plastic.
- Includes mounting template for easier installation.



# AY-K12 Advanced Wiegand 26-Bit RFID Proximity Reader



## Product Specifications

ELECTRICAL CHARACTERISTICS	
• Operating Voltage Range:	5 to 16VDC, from a regulated power supply
• Input Current:	Standby: 35mA at 12VDC Maximum: 50mA at 12VDC
• Tamper Output:	Open collector, active low, max. sink current is 16 mA Optical tamper must be flush to wall surface to work
• Max. Distance to Controller:	With proper wiring reader to controller can be 150m (500 ft)
• Inputs:	LED control input; N.O. Dry Contact
• LEDs:	Two bi-colored LEDs
• Proximity Card Reader:	Maximum read range*: 80mm (3.15 in.) Modulation: ASK at 125 kHz Compatible cards: All 26-Bit EM Cards <small>* Measured using Rosslare Prox Card AT-R14 or equivalent. Range also depends on electrical environment and proximity to metal.</small>
ENVIRONMENTAL CHARACTERISTICS	
• Operating Temperature:	-31°C to 63°C (-25°F to 145°F)
• Operating Humidity:	0 to 95% (non-condensing)
• Operating Environment:	Suitable for outdoor use (IP65 rated)
PHYSICAL CHARACTERISTICS	
• Dimensions:	80mm L x 40mm W x 12.8mm D (3.1 in. x 1.6 in. x 0.5 in.)
• Weight:	67 g (0.15 lbs)

## System Components

AY-K12 is compatible with a variety of Rosslare's Wiegand 26-bit access controllers (AC-215, AC-115, AC-020, AC-015) and power supplies, as well as with many third party access control systems.



## Additional Information

The AY-K12 is covered by Rosslare's 5-year Limited Product Warranty.

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



CFR47 Part 15b Certified



UL-294 Listed for Access Control System Units