

# AY-U900

## UHF Integrated Long-Range Reader



THE AY-U900 IS AN RFID LONG-RANGE PROXIMITY CARD READER THAT IS COMPATIBLE WITH MULTIPLE PROTOCOLS AND CAN READ MULTIPLE TAG FORMATS. THE READER IS WATERPROOF AND IS SUITABLE FOR USE IN A WIDE RANGE OF RFID APPLICATIONS, SUCH AS TRANSPORT MANAGEMENT, VEHICLE MANAGEMENT, CAR PARKING, PRODUCTION PROCESS CONTROL, AND ACCESS CONTROL.

### GENERAL DESCRIPTION

The AY-U900 is the solution for security situations that require a long-range proximity reader. The reader is both easy to install and easy to use.

### MAIN FEATURES

- Read range up to 39.4 ft (12 m) (adjustable) \*
- Read Sensitivity: Dual polarization read mode

### PROFESSIONAL GRADE FEATURES

- Wiegand 26-Bit (Custom: Wiegand 34-Bit)
- Comes with an installation bracket kit and RS-232 cable
- Weatherproof (IP-54)
- Maximum Cable Distance: 500 ft (150 m)

# SPECIFICATIONS

## ELECTRICAL SPECIFICATIONS

■ Operating Voltage Range	9 to 12 VDC (2 A)
■ Input Current	Standby: 0.2 A max, Read: 1.2 A max
■ Card Read Distance	Up to 39.4 ft (12 m) (adjustable) * Read range was tested with Rosslare's AT-T910 card
■ Transmission Protocol	Wiegand 26-Bit (Custom: Wiegand 34-Bit)
■ Maximum Cable Distance	500 ft (150 m)
■ Frequency	AY-U900US: 902–928 MHz (America) AY-U900C: 920–925 MHz (China) AY-U900EU: 865–868 MHz (Europe)
■ Read Sensitivity	Dual polarization read mode
■ Tags	Rosslare's AT-T910 and AT-T911 ISO18000-6B Tags EPC GEN2 (ISO18000-6C) Tags

## ENVIRONMENTAL SPECIFICATIONS

■ Operating Temp. Range	-4°F to 176°F (-20°C to 80°C)
■ Storage Temp. Range	-40°F to 257°F (-40°C to 125°C)
■ Operating Humidity	0 to 95% (non-condensing) Suitable for outdoor use (IP54)

## PHYSICAL SPECIFICATIONS

■ Dimensions	1.73 x 1.73 x 0.20 in. (44 x 44 x 5 mm)
■ Weight	5.11 lb (2.32 kg)

## SYSTEM COMPONENTS

The AY-U900 is compatible with standard access controllers.

## 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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