

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 12 m (39.4 ft) (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: 150 m (500 ft)

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

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| ■ 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 12 m (39.4 ft) (adjustable) * Read range was tested with Rosslare's AT-T910 card |
| ■ Transmission Protocol | Wiegand 26-Bit (Custom: Wiegand 34-Bit) |
| ■ Maximum Cable Distance | 150 m (500 ft) |
| ■ 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 |
| ■ Cards and Tags | Rosslare's AT-T910 and AT-T911 ISO18000-6B Tags EPC GEN2 (ISO18000-6C) Tags |

ENVIRONMENTAL SPECIFICATIONS

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|-------------------------|--|
| ■ Operating Environment | -20°C to 80°C (-4°F to 176°F) |
| ■ Operating Temperature | -40°C to 125°C (-40°F to 257°F) |
| ■ Operating Humidity | 0 to 95% (non-condensing) Suitable for outdoor use (IP54) |

PHYSICAL SPECIFICATIONS

| | |
|--------------|---|
| ■ Dimensions | 44.5 x 44.5 x 6.7 cm (17.52 x 17.52 x 2.64 in.) |
| ■ Weight | 2.32 kg (5.11 lb) |

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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