ROSSLARE
SECURITY PRODUCTS

AY-M20
Euro/Asian Gang Box Sized Multi Format Proximity Reader

Rosslare's AY-M20 is a powerful RFID proximity card reader of 125 KHz cards and tags, featuring multi-format output and an excellent read range. The reader supports both standard EM and Rosslare Format cards, and is highly flexible with behavior control options. With a sleek design and a tough UV-resistant and water-resistant casing, the AY-M20 is equally suited to indoor and outdoor use.

General Description

The AY-M20 with selectable output format reduces stocking costs, while offering various control options such as Hold, Buzzer and multi-LED Color control.

Supporting the Rosslare Format for card reading, this reader offers a secure and economic solution where non-standard card formats should be used.

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 notification. LED control provides system based information to the end user.

* Based on Rosslare's AT-R14 proximity cards

Main Features

- Selectable output formats: Wiegand 26 Bit, Clock & Data and RS-232
- Excellent RFID card read range up to 100 mm (3.94").
- Wide range operating voltage: 5 to 16 VDC.
- 60 cm (23.6") 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.
- Internal sounder with external control option.
- Tri-color LED with external control inputs.
- External reader Hold control.
- Optical wall tamper detection.
- Water-resistant with epoxy potting (IP65) suitable for indoor and outdoor applications.
- Made of tough polycarbonate UV-resistant plastic.
- Comes with mounting template for easier installation.

AY-M20 Euro/Asian Gang Box Sized Multi-Format Proximity Reader

Product Specifications

ELECTRICAL CHARACTERISTICS	
Operating Voltage Range:	5-16 VDC, from a regulated power supply
Input Current:	Standby: 65mA at 12 VDC Maximum: 50mA at 12 VDC
LED Control:	Two control lines for Red, Green, Amber or no color. Dry Contact, N.O.
Tamper:	Optical back tamper sensor, O.C. active low 16mA max sink current
Buzzer Control:	External control over sounder operation. Dry Contact, N.O.
Hold Control:	External reader disabling control. Dry Contact, N.O.
Proximity:	Maximum read range*: 100mm (3.94") Modulation: ASK at 125 kHz Compatible cards: All 26-Bit EM Cards, standard and Rosslare Format * Measured using Rosslare Prox Card AT-R14 or equivalent. Range also depends on electrical environment and proximity to metal.
OPERATIONAL CHARACTERISTICS	
Output Format:	Selectable Wiegand 26 Bit, Clock & Data or RS-232
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 (IP65 rated)
Operating Temperature:	-31˚C to 63˚C (-25˚F to 145˚F)
Operating Humidity:	0 to 95% (non-condensing)
RFI Protection:	> 20 V/m up to 1000 MHz
PHYSICAL CHARACTERISTICS	
Dimensions:	89mm x 89mm x 15mm (3.5" x 3.5" x 0.6")
Weight:	109 g (0.24 lbs)

System Components

The AY-M20 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.

Additional Information

The AY-M20 is covered by Rosslare's 5-year Limited Product Warranty.

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