AY-K20B

Micro-Mullion Multi-Format Proximity Reader

Rosslare's AY-K20B 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-K20B is equally suited to indoor and outdoor use.

GENERAL DESCRIPTION

The AY-K20B 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. The unit is 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.

MAIN FEATURES

- Selectable output formats: Wiegand 26-Bit, Clock & Data, and RS-232
- Excellent RFID card read range of up to 8 cm (3.15 in.)
- Wide range operating voltage: 5 to 16 VDC
- 45 cm (18 in.) pigtail cable

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

ROSSLARE
SECURITY PRODUCTS

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

▪	Operating Voltage Range	5–16 VDC, from a regulated power supply
▪	Standby Input Current	35 mA @ 12V
▪	Maximum Input Current	55 mA @ 12V
▪	Proximity Card Reader	Maximum read range*: 8 cm (3.15 in.) Modulation: ASK at 125 kHz Compatible cards: All 26-Bit EM cards * Measured using Rosslare's AT-x14 or equivalent. Range also depends on the electrical environment and proximity to metal.
▪	Tamper Output	Open collector, active low, max. sink current 16 mA
▪	LED Control Input	Dry Contact, N.O.

OPERATIONAL SPECIFICATIONS

▪	Output Format	Selectable Wiegand 26-Bit, Clock & Data, or RS-232
▪	Audio/Visual	Tri-colored LED indicator, built-in sounder
▪	Design	Epoxy-potted, fully-sealed in a rugged polycarbonate enclosure. Suitable for harsh environments.

ENVIRONMENTAL SPECIFICATIONS

▪	Operating Environment	Water resistant, suitable for outdoor use (IP65)
▪	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 SPECIFICATIONS

▪	Dimensions (H x W x D)	79.91 x 39.91 x 12.8 mm (3.15 x 1.57 x 0.50 in.)
▪	Weight	70.5 g (2.49 oz)

SYSTEM COMPONENTS	The AY-K20B is compatible with a variety of Rosslare's controllers, as well as with many third-party access control systems. A mounting spacer is available for installations over metallic surface.
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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