

AY-x5B

MIFARE Classic® EV1 Contactless
13.56 MHz Smart Card Reader



The AY-x5B series is a 13.56 MHz reader capable of reading ID cards, tags, and credentials based on the MIFARE Classic EV1 contactless card technology. It reads the unique ID (UID) of the credential and transfers it via Wiegand 26-40 Bit data to the access control panel. The AY-x5B series comes with a wall mounting screw kit and top cover, and the board is coated with conformal coating to protect it from the elements and provide a long service life. It is a very simple, reliable, and cost-effective way to upgrade your system to the smart card standard.

GENERAL DESCRIPTION

This AY-x5B series is a high quality MIFARE Classic® EV1 credential reader for indoor applications. An affordably priced indoor reader for business and commercial applications, this reader delivers UID to Wiegand 26-40 Bit operation.

The reader reads MIFARE Classic EV1 ID format protocol via the 13.56 MHz cards and tags, with a variety of form factors.

The reader is ideal for organizations with many readers, where cost is an important factor of the project.

The reader features a 5-wire cable output, which can be wired (+) and (-) and D0, D1 interface, and green LED control to almost any access control panel.

Made of tough polycarbonate UV plastic the durable reader has conformal board coating to provide additional protection from humidity and moisture, for a long service lifetime.

MAIN FEATURES

- Incorporates the ISO-14443A (MIFARE Classic EV1) ID format protocol
- Read range of up to 65 mm (2.6 in.) depending on the card type
- Supports standard Wiegand 26-40 Bit
- Made of tough polycarbonate plastic for improved performance in all indoor weather conditions
- Developed for cost-effective market

PROFESSIONAL GRADE FEATURES

- Bi-colored LED and LED control input
- Internal buzzer

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Operating Voltage Range	5–16 VDC from a regulated power supply
■ Input Current	Standby: 45 mA @ 12 VDC Max: 100 mA @ 12 VDC

OPERATIONAL SPECIFICATIONS

■ Indicators	Bi-colored LED indicator
■ Inputs	Input for LED control
■ Output Format	Selectable transmission formats: Wiegand 26-Bit w/site code, Fixed 26-bit, 32-Bit, 32-Bit reversed, 34-Bit, 40-Bit and Clock & Data
■ Maximum read range	AY-M5B: 6.5 cm (2.6 in.) AY-H5B/AY-L5B: 7 cm (2.8 in.) AY-K5B: 6 cm (2.4 in.)
■ Built-In Proximity Reader	Operating frequency: 13.56 MHz Compatible cards: MIFARE Classic EV1 compatible ISO-14443A

ENVIRONMENTAL SPECIFICATIONS

■ Operating Environment	Suitable for Indoor Use, IP-54
■ Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)
■ Operating Humidity Range	0% to 95% (non-condensing)

MECHANICAL SPECIFICATIONS

	AY-M5B	AY-H5B	AY-L5B	AY-K5B
■ Dimensions (H x W x D)	89x89x15mm (3.5x3.5x0.6in)	110x75x15mm (4.3x3.0x0.6in)	145x43x20mm (5.7x1.7x0.8in)	80x40x12.8mm (3.2x1.6x0.5in)
■ Weight	75.0 g (2.6 oz.)	74.8 g (2.6 oz.)	70.6 g (2.5 oz.)	34.3 g (1.2 oz.)
■ System Components	The AY-x5B series is compatible with a variety of Rosslare's controllers, as well as with many third-party systems, and is compatible with Rosslare's MIFARE Classic EV1 credentials, and third party MIFARE Classic EV1 credentials.			

PRODUCT WARRANTY

2-Year Limited Product Warranty

ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration.

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