AY-B86x0

Outdoor Optical Fingerprint 1:N with RFID Reader

Datasheet

IK10

IP65

Introduction

The AY-B86x0 features a rugged metal case (IK10) and epoxy potting for protection. This fingerprint and 13.56 MHz MIFARE or 125 KHz EM RFID card reader is suitable for indoor and outdoor operation (IP65). AY-B86x0 can enroll up to 7,000[1] fingerprint templates (1:N) and enables dual factor authentication (Fingerprint + Card). It can connect via Wiegand to any third-party access control panel and has TCP/IP connectivity for terminal management. The reader can be set up easily using the AxTraxNG Client software. Alternatively, Rosslare's standalone RosslareBio 8000 management software is perfect for interfacing with existing third-party systems.

General Description

Securing your assets, people, and property has never been easier. The AY-B86x0 is anti-vandal, featuring a rugged IP65 and IK10 housing with metal reinforcement for outdoor applications.

The reader is networked and can be installed using TCP/IP, and can be configured via AxTraxNG Client or by the standalone client/server software RosslareBio 8000 for Windows OS. The reader outputs Wiegand 26-Bit protocol for access control panel connectivity.

The water and dust sealed optical chamber features a 500 DPI sensor, capable of reading both wet and dry fingers, and a scratch-resistant glass surface that does not wear down with heavy use for a long product lifetime.

The reader can store up to 7,000 templates, and using a high-speed CPU, it can quickly scan a large list of templates. This solution is ideal for any business from

[1]Loading more than 3000 templates is not recommended due to extended response time

one door up to thousands of doors with up to 3500 users per reader (2 fingers per user).

Templates and reader settings are managed by TCP/IP connection to the AY-B86x0 using the AxTraxNG™ integrated biometrics features. Alternatively, the RosslareBio 8000 standalone management software for Windows OS interfaces with third-party systems.

Main Features

- Supported by Rosslare AxTraxNG software

- Small compact design for indoor/outdoor use

- Anti-vandal (IK10)

- Capacity for up to 7000 templates

- Combined RFID card and fingerprint for higher security with dual factor applications

- Built-in TCP/IP / RS-485, and Wiegand connectivity

- 100,000 non-volatile event log

- Wide thermal operating range (-20°C to 60°C)

- Built-in buzzer and LED indication

Software Solutions

- AxTraxNG: Easy to install and operate using Rosslare AxTraxNG™ Server for Windows for managing user data and template distribution (many languages)

- RosslareBio 8000 Management Software: Standalone management software that supports 8000 biometric reader series for user enrollment, reports, and more and allows third-party interfacing.

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Specifications

FINGERPRINT IMAGING SYSTEM	
Technology	Optical (sealed optical chamber, scratch-resistant glass, wet or dry finger)
Image Resolution	500 DPI
Scan Area	22 x 18 mm (0.9 x 0.7 in.)

TEMPLATE CAPACITY & SPEED	
Capacity	Up to 7000[1] biometric templates on reader
Time 1: N	1000 templates: 1-2 sec 1000 – 3000 templates: 2-4 sec

CONTACTLESS CARD TECHNOLOGY	
RFID	Built-In 13.56 MHz MIFARE or 125 kHz EM credential reader

ENVIRONMENTAL RANGE	
Environment	IP65 – Indoor or outdoor Installation
Anti-Vandal	IK10 – Impact protection metal reinforced housing
Temperature	-20° to 60°C (-4°F to 140°F)
Humidity	Up to 95% RH

COMMUNICATON & PERFORMANCE	
CPU	32-bit ARM core
Communication Ports	Wiegand, RS-485, TCP/IP (10/100 Mbps), mini-USB
Authentication	Fingerprint Only, Fingerprint + Card, Card Only
RFID	Built-in 13.56 MHz MIFARE or 125 kHz EM

PHYSICAL CHARACTERISTICS	
Dimensions (W*H*D)	50 x 124 x 34.5 mm (2.0 x 4.9 x 1.5 in.)
Net Weight	780 g (27.5 oz)

POWER SUPPLY REQUIREMENTS	
Power	+12 VDC regulated power supply

STANDARDS COMPLIANCE	
Device Certifications	CE & FCC

ORDER MODELS
AY-B8620 – With 125 kHz EM RFID card reader
AY-B8650 – With 13.56 MHz MIFARE RFID card reader

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For more information regarding support, visit https://support.rosslaresecurity.com/.