

Installation Guide

iCLASS Reader Models *bio*500, RWKL550 & RWKLB575



PARTS INCLUDED

- 1 - *iCLASS* LCD Keypad Reader with optional Bio
- 1 - Installation Manual
- 2 - #6-32 x .25" x Phillips machine screws
- 3 - #6-32 x .375" Phillips self-tapping machine screws
- 2 - #6 x 1.5" Phillips sheet metal screws
- 2 - #6-32 x .375" Spanner security screws
- 1 - 10 Position Phoenix Plug
- 1 - 8 Position Phoenix Plug
- 1- Foam Gasket

Recommended:

- Up to 10 wire splices
- Security Tool (for security screw) HID 04-0001-03
- Cable, 9 conductor, 22 AWG, shielded (Wiegand)
- Linear 12 VDC, 1 A Power Supply
- Cable, 6 conductor, 22 AWG, shielded (Serial)
- Metal or plastic junction box
- Magnetic Tamper switch - Ademco 945T, Sentrol 1038T, GRI 100T or 110T or Aleph DC-2531

SPECIFICATIONS

- Reader Input Voltage: 9-12 VDC
- Current Range: 350 mA standby / 520 mA peak.
- Cable distance to Host:
 - 50 ft (15 m) max – RS-232.
 - 4000 ft (1216 m) max – RS-485
 - 16 Gauge Wire 500 ft (152 m) max – Wiegand
 - 20 Gauge Wire 200 ft (60 m) max – Wiegand
- Op. Temperature: 32 °F - +113 °F (0 °C – +45 °C)
- Open collector output: Sink – 40 mA, source – 1 mA.

Standards:

- Read/Write capability in ISO 15693 mode with HID *iCLASS* credentials.
- Read/Write capability in ISO 14443B mode with HID *iCLASS* 16KS.
- Read capability of CSN/UID in ISO 14443A mode with HID Mifare and other 3rd party Mifare credentials.

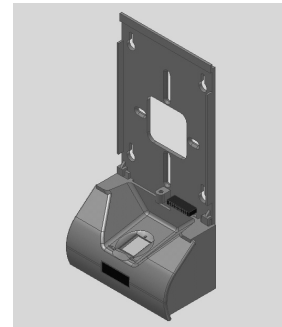
Description



RWKLB575



RWKL550



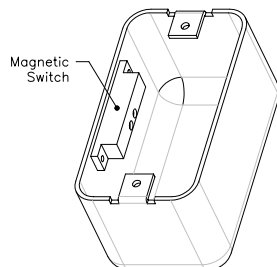
*bio*500

The *bioCLASS* range is intended for **indoor use only** and should never be mounted on an exterior wall.

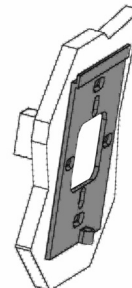
INSTALLATION

1- Install Tamper Switch

An internal magnet provides tamper indication when used with a magnetic reed switch connected to an external alarm system. Locate Switch behind the left side of the mounting plate, centered between the mounting holes.



Electrical Back Box



Wall Surface

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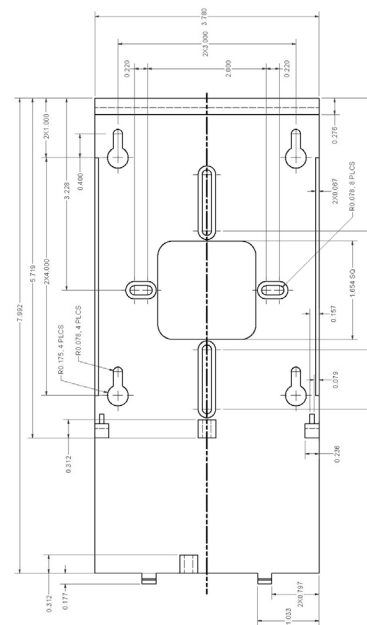
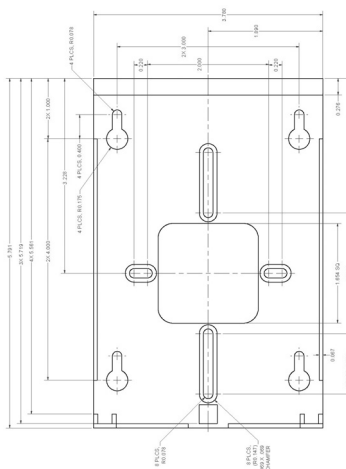
HID Corporation 9292 Jeronimo Road Irvine, CA 92618-1905 USA TEL (949) 598-1600 (800) 237-7769 FAX (949) 598-1690

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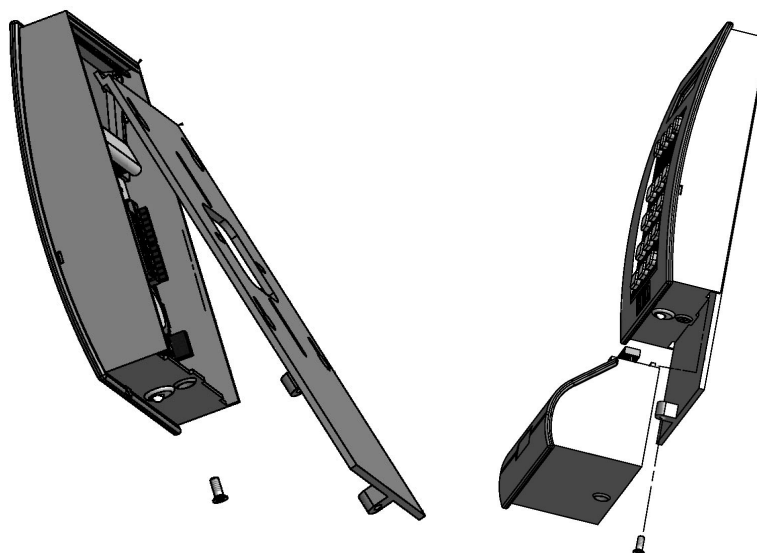
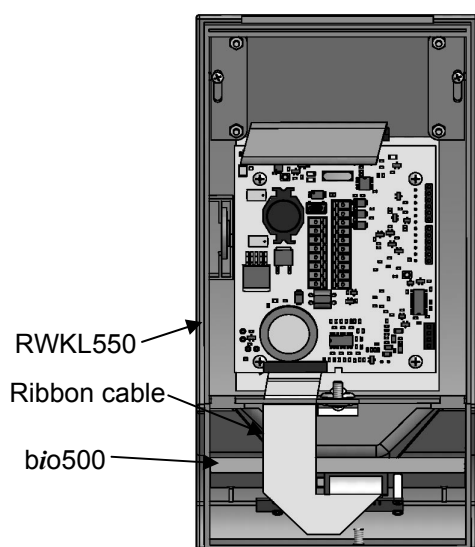
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2 - Install Mounting Plate

Long – biometric
Short - keypad



1. Connect the ribbon cable from the bio500 to connector J8 on the RWKL550. Ensure that pin1 of the ribbon cable is aligned with pin1 of the connector.
2. Slide the reader onto the long backplate, ensuring that the tongue of the backplate is located in the slot at the top of the reader and retain with a screw.
3. Align the biomodule with the RWKL550 body and insert a second screw.



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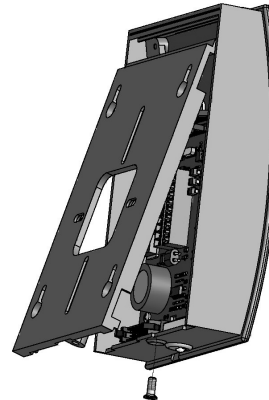
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4 – Keypad Reader Mounting

1. Slide the reader onto the short back plate, ensuring that the tongue of the backplate is located in the slot at the top of the reader and retain with a screw.



5- Connecting

Serial Port		Wiegand Port		
8 Pin Terminal	Function	10 Pin Terminal	Color-coded Pigtail	Function
1	Ground	10	Violet	Actuator Signal
2	Y / RS-232 TX	9	Blue	Hold ¹
3	Z	8	Yellow	Speaker ¹
4	Ground	7	Drain	Shield Ground ²
5	RS485B / RS-232 RX	6	Brown	Red LED ¹
6	RS-485A	5	Orange	Green LED ¹
7	Ground	4	White	Data 1
8	DC+	3	Green	Data 0
		2	Black	Ground
		1	Red	+DC (9-12 VDC) ³

¹ Optional Connections

² Drain wire can be used for data return line when a separate power supply is used.

³ +DC, Return & Drain wires are common between the Wiegand and Serial Ports.

6- Testing

- A. Turn Power On – Watch the sign-on LED and hear the speaker tone sequences.
- B. Read Card – Present a valid card to the reader and verify the visual and audio feedbacks.

7- Upgrading an RWKL550

Reverse installation step 4 in order to remove the reader from the backplate.

Replace short backplate with a long backplate and follow the Biometric Reader Mounting instruction, steps 1-3.

Optional Features

RS232/485 interface/Host Mode - for applications requiring a serial link. See Protocol Document 6090-902 for information

Configuration Options - Configure LED, Speaker, and other features. See How To Order Guide or iCLASS Application Note for details

Hold Input – when asserted, this line either buffers a card read or disables a card read until released, as configured.

FCC WARNING:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For proper regulatory compliance, the drain wire should be disconnected at the power supply end of the cable. The reader is intended to be powered from a limited power source output of a previously certified power supply. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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