

REC-14B Microlatch™ 4-Channel RF Receiver Controller

English



Technical Specifications

Version:
v1.1-14B170A

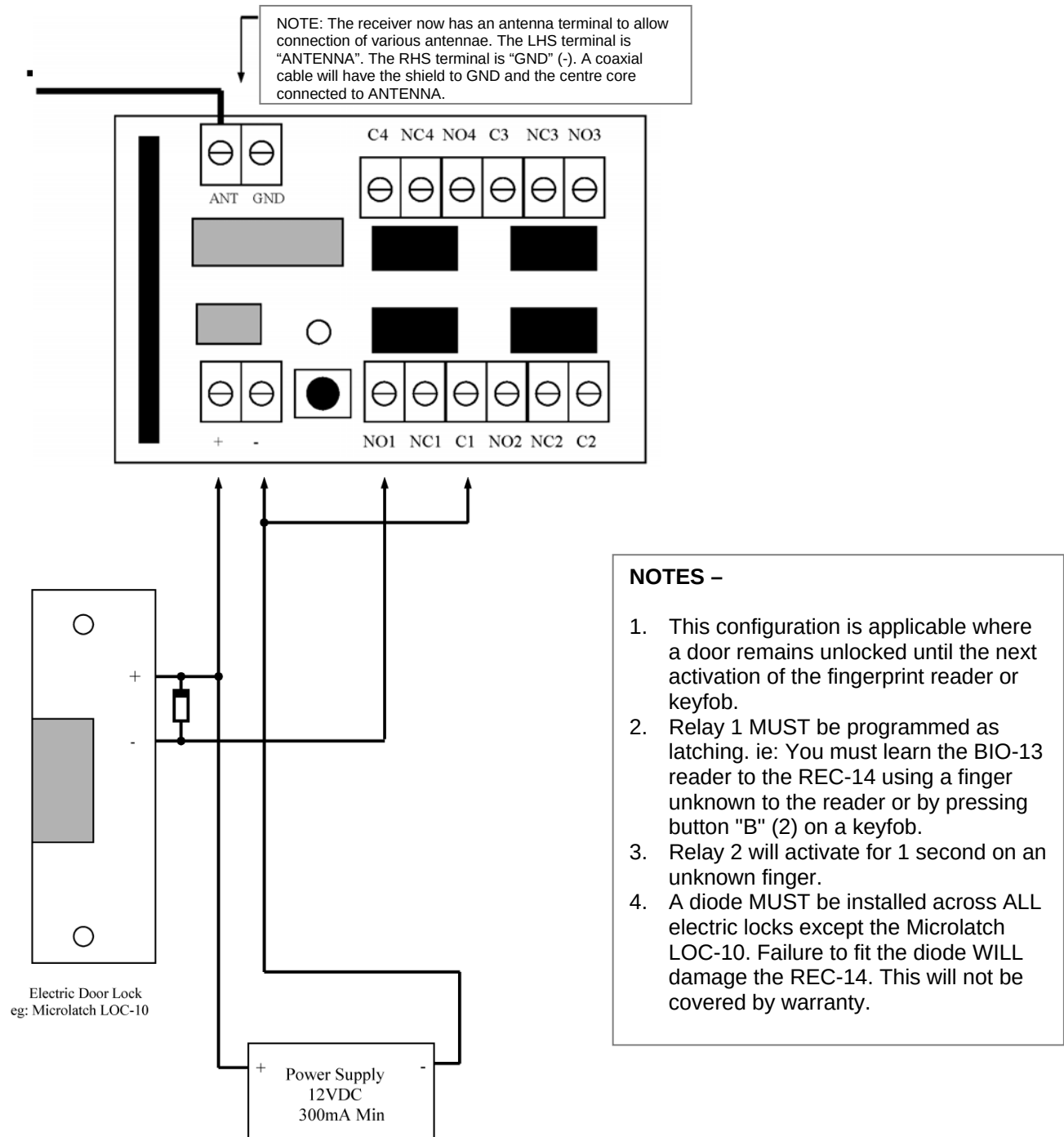
MicroLatch™
Your Finger is the Key!

MICROLATCH™ REC-14B 4-Channel RF CONTROLLER

1. Overview

This product is a general purpose UHF receiver operating on 434mhz. 4 Single Pole Double Throw (SPDT) outputs are available to control external devices. The receiver is designed for use with Microlatch™ Biometric products but can also be used with the Microlatch keyfobs. This system uses code hopping technology for secure RF transmissions.

2. Connection Diagram



INSTALLATION AND SETUP

1. Learning Microlatch Biometric Fingerprint Wireless Readers –

This receiver is code learning therefore making the addition of extra transmitters an easy task.

1. If the receiver is being set up for the first time it is advisable to clear the EEPROM memory. To do this hold down the LEARN/DELETE switch on the PCB. The LED will light and then extinguish after 4 seconds. The EEPROM is now empty.
2. Press the LEARN/DELETE switch briefly. The LED will flash rapidly.
3. LEARN any BIO-13/BIO-14/BIO-15 readers to the receiver by causing the unit to transmit either with a known finger (timed operation) or an unknown finger (latching operation).
4. Learn additional transmitters or exit by pressing the LEARN/DELETE switch once. LED will extinguish. If you forget to exit learn mode (flashing LED) the REC-14 will do so automatically after 20 seconds of no activity.

2. Setting operation modes on Channel 1 (Relay Output 1)

The first transmitting device learnt to the REC-14 will dictate how relay 1 operates. Additional devices learnt to the REC-14 will operate the relays as per the first device regardless of which finger or button is pressed on a transmitter:

Mode 1 – Timed Operation of Relay 1

Learning with known finger (Microlatch fingerprint devices) or Button 1 on Microlatch button keyfobs.

Mode 2 – Latching Operation of Relay 1

Learning with an unknown finger (Microlatch fingerprint devices) or Button 2 on Microlatch button keyfobs.

Note - Relays 2, 3 & 4 are all timed outputs. Relay 2 is activated by an unknown finger or button 2 on a keyfob. Relay 3 is activated by User group 2 from the BIO-13 or button 3 on a keyfob. Relay 4 is activated by a LOW BATTERY signal from the BIO-13 or button 4 on a keyfob.

3. Deleting BIO-13/BIO-14/BIO-15

This may be done either by the erase feature on the Microlatch Fingerprint devices (BIO-13/BIO-14/BIO-15) or any learned transmitters (BIO readers and keyfobs) can be erased altogether by following step 1 in the LEARN procedure above.

ADDITIONAL INFORMATION

1. Install the receiver as high as possible for best signal reception and clear of metallic surfaces.
2. Keep the aerial wire vertical
3. Power the receiver from a regulated DC power supply

PRODUCT SPECIFICATIONS

Microlatch™ REC-14B RF 4-Channel Receiver Controller V1.1

Operating Voltage	9 - 14VDC regulated 1.5A minimum battery backed supply recommended.
Current consumption @12VDC	5.5mA minimum (No relays ON) 72mA maximum (All relays ON)
Physical Dimensions Case material	85mm (L) x 65mm (W) x 32mm (H) ABS plastic
Output Channels	4
Output Ratings	SPDT relay 1 Amp switching maximum @ 24VDC Contacts are voltage free
RF Operating Frequency	434MHz
RF Signal Type (Data Transfer)	On Off Keying (OOK) Keelock™ AM ASK Code Hopping
Coding combinations	4.2 billion
Learning capacity	170 devices
Country of Manufacture	Australia
Safety	EMC Tested and Approved. CE and C-Tick Compliance Complies with AS/NZS 4268:2003, AS/NZS 4251.1:1999

* All specifications subject to change without notice in the interest of ongoing product development

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