i-Key Quick Reference

This Quick Reference has been written for the use of an experienced installer to ensure all connections are made correctly. This document is also available from the i-Key website *www.i-key.com.au* for download.

Compliance
i-Key products are compliant with the following organisations;

FCC

CE

C

1.0 CABLE REQUIREMENTS
The i-Key RX receiver may be connected into a standard access control system via the wiegand interface. The connection procedure is exactly the same as a standard proximity reader with a wiegand output. The i-Key RX is connected back to the access control system with up to 100m (328 feet) of 6 core shielded stranded cable. As per wiegand specifications AWG 24 (Belden 9537) is the minimum gauge required for reliable data transfer. Other gauges may be required depending on cable voltage drops.

2.0 OUTPUT FORMATS
On the i-Key RX you will notice that there are 2 wiegand data outputs, Data 0A & Data 1A, and also Data 0B & Data 1B. Wiegand output A outputs the i-Key TX pendants card number when button A is pressed on the pendant, and wiegand output B outputs card number when button B is pressed on the i-Key TX pendant.

DATA FORMATS
   Industry standard 26 bit Wiegand
   Custom Wiegand (available as an option)

3.0 GROUNDING
The Ground Terminal on the i-Key RX must also be tied to the Ground on the Access Controller, even in the event of a separate power supply being used for the RX.

4.0 POWER
The i-Key RX requires 10-14 volts DC. Current draw is approx 20ma. Always verify that the voltage at the RX falls within the specified requirements.
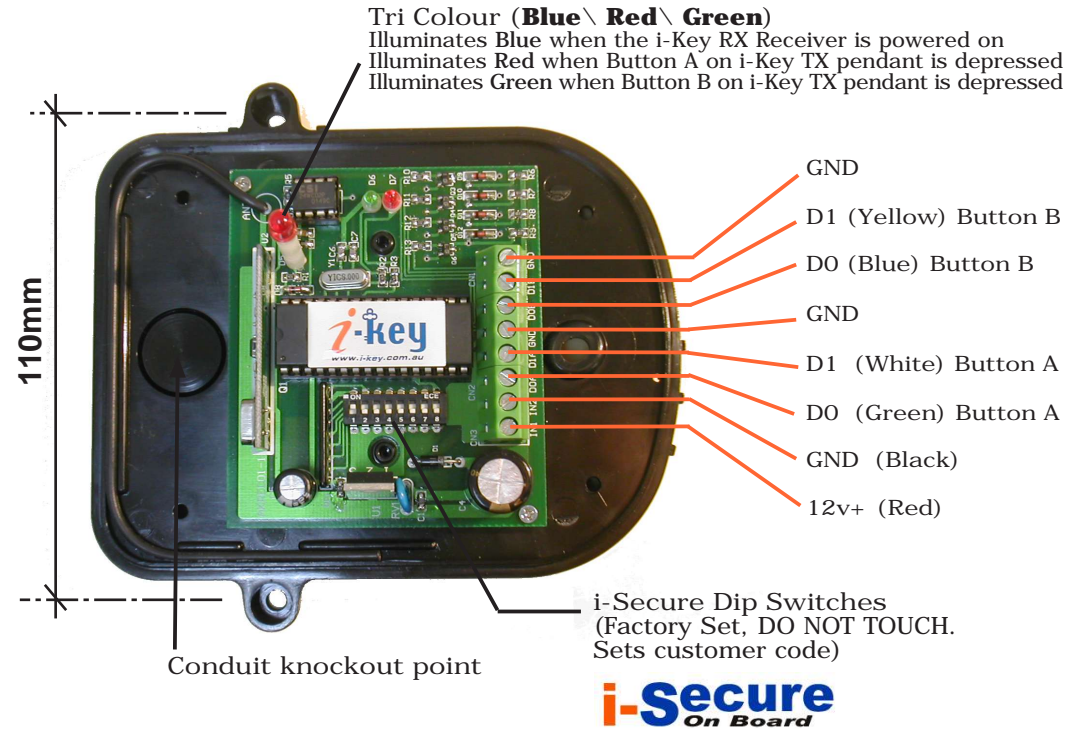
5.0 MOUNTING
Installation of the i-Key RX is simple, it may be mounted to a wall via the two mounting holes on either side of the case. Always check mounting positions on site before final installation. i-Key is an RF device and as such may be subceptble to spurious RF noise from nearby electrical devices and shielding from metal objects.

6.0 BATTERY REPLACEMENT
i-Key TX Pendant batteries will need to be replaced after some time depending on usage. To replace the batteries on the i-Key TX simply remove the key ring and then the screw from the rear of the TX. Replace the battery with a 12V type 23A battery and ensure the polarity is correct. Always check the seal is in place before reassembly.

7.0 WIRING i-Key RX Receiver
The diagram below details the i-Key RX wiring connections.

Tri Colour (Blue\ Red\ Green)
Illuminates **Blue** when the i-Key RX Receiver is powered on
Illuminates **Red** when Button A on i-Key TX pendant is depressed
Illuminates **Green** when Button B on i-Key TX pendant is depressed

110mm

GND
D1 (Yellow) Button B
D0 (Blue) Button B
GND
D1 (White) Button A
D0 (Green) Button A
GND (Black)
12v+ (Red)

i-Secure Dip Switches
(Factory Set, DO NOT TOUCH.
Sets customer code)

Conduit knockout point

i-Secure On Board

8.0 BUTTONS i-Key TX Pendant
The diagram below details the pendant button layout.

Button A
LED (illuminates when either button is pressed)
Button B (dimpled)

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