i-Key 4 Quick Reference Guide

Compliance
i-Key products are compliant with the following organizations

1.0 CABLE REQUIRMENTS
The i-Key 4 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 4 RX is connected 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
The i-Key 4 RX has 4 Wiegand data outputs: A, B, C and D each having a Data 0 and Data 1. Wiegand output A outputs the i-Key 4 TX pendant's card number when button 1 is pressed on the pendant, with output B corresponding to button 2 etc.

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

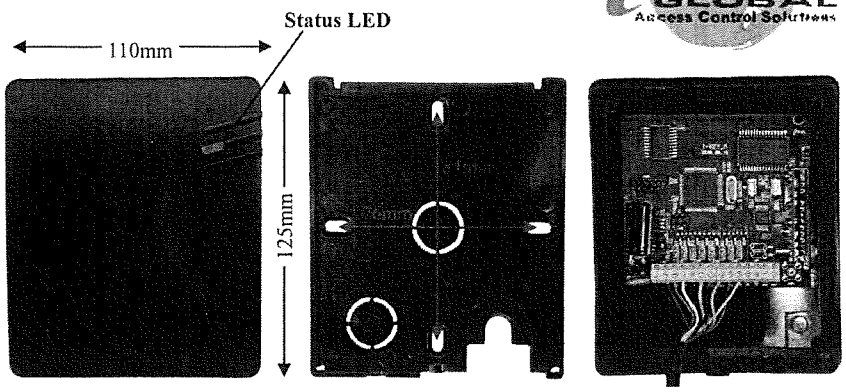
3.0 GROUNDING
The Ground Terminal on the i-Key RX must be tied to the Ground on the Access Controller in the event of a separate power supply being used for the RX.

4.0 POWER
The i-Key 4 RX requires 10-14V DC. Current draw is approx 40mA.

5.0 STATUS LED
The Status LED is red when the unit is powered on and receiving. The Status LED flashes green when a transmission is received.

6.0 MOUNTING
The i-Key 4 RX may be mounted to a wall via two of the mounting holes on the backplate. The receiver then clips over the backplate and is secured by a screw at the base of the unit. Extra knockouts are available for different cable entry options. Always check mounting location on site before final installation. i-Key 4 is an RF device and as such may be susceptible to RF interference from nearby electrical devices and shielding from metal objects.

6.0 MOUNTING (cont)

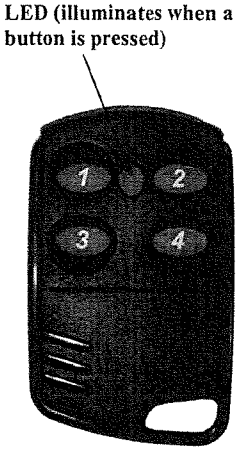


RX Dimensions | Mounting Plate | Internal View

7.0 WIRING i-Key RX Receiver

Ground	Black
+12V	Red
Data 0 A	Green
Data 1 A	White
Data 0 B	Blue
Data 1 B	Yellow
Data 0 C	Purple
Data 1 C	Orange
Data 0 D	Brown
Data 1 D	Grey

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



9.0 BATTERY REPLACEMENT
To replace the batteries on the i-Key 4 TX simply unscrew the two screws at the top and bottom on the rear of the pendant. The keyring does not have to be removed. Replace the battery with a CR2032 battery and ensure the polarity is correct. Always check the seal is in place before reassembly.