i-Key 6 PIN/RX Quick Reference
1.0 Introduction
The i-Key 6 PIN/RX receiver has been designed to connect into a standard gate motor drive control system. The connection is made via a 6 way female connector on the i-key 6 PIN/RX which connects to the gate motor drive controller PCB.s 6 PIN male strip connector. Standard i-key TX pendants may be learnt into each 6 PIN/RX receiver (up to 250) to allow the user to operate the gate from the safety of a vehicle.

2.0 Programming
The receiver will be powered up once it is connected to the gate controller. To enter programming mode simply hold down the Programming Button for 2 seconds, the RED LED will now be on steady. To Exit programming mode, hold down the programming button for 2 seconds, the RED LED will now go out.

Adding i-Key TX
Once in programming mode simply press a button on each pendant that you want to be learnt in to the receiver. Each time a pendant is added the RED LED will flash once. Exit programming mode when all i-key pendants are learnt in. Once you are out of programming mode, you can press each i-key button to test if your i-Keys pendants are valid. Each time the i-Key 6 PIN/RX receives a valid i-key pendant transmission the GREEN LED will flash once.

Deleting the memory
The i-Key 6PIN/RX has a non volatile memory, so all programming remains in the memory even if power is removed from the board. To delete the memory simply hold down the programming button for 5 sec, the RED LED will then flash 5 times which indicates that the memory has now been erased.
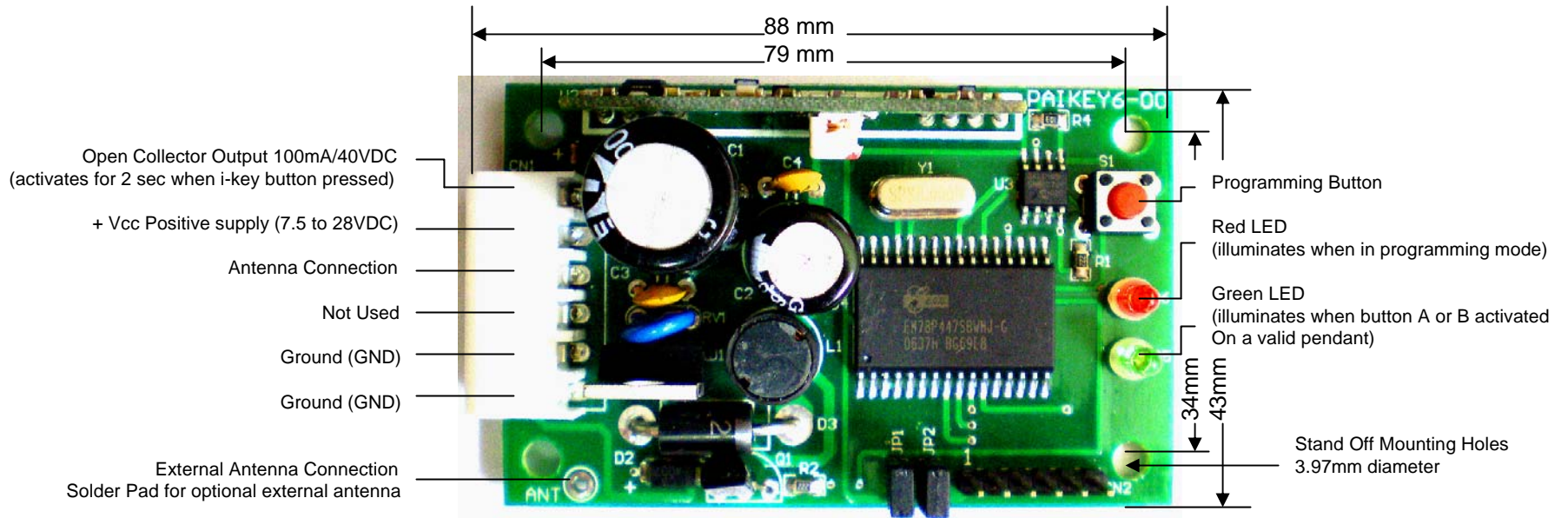
i-Secure Customer Code
The receiver will use the i-Secure code of the first pendant learnt as its code. If an attempt is made to learn an i-Key pendant in with a different i-Secure code the RED LED will flash 3 times to indicate an invalid i-Secure customer code.

System Capacity
The capacity of the receiver is 250 pendants, when this limit is reached programming mode will automatically exit and the RED LED will flash 5 times.

Securitex Electronic Systems Engineering

The following show a i-key 6 pin Rx PCB layout and connector

Open Collector Output 100mA/40VDC
(activates for 2 sec when i-key button pressed)

+ Vcc Positive supply (7.5 to 28VDC)

Antenna Connection

Not Used

Ground (GND)

Ground (GND)

External Antenna Connection
Solder Pad for optional external antenna

88 mm

79 mm

Programming Button

Red LED
(illuminates when in programming mode)

Green LED
(illuminates when button A or B activated
On a valid pendant)

34mm

43mm

Stand Off Mounting Holes
3.97mm diameter

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