iKey One Door Kit Programming Guide

INSTALLER SYSTEM CONFIGURATION

Setting the Master Code:

To set the programming Master Code put link LK1 on. Now enter a 4 digit code number and press the 'E' key.
You should hear 5 quick beeps from the controller indicating the code has changed. Remove LK1 when you have finished.

Entering Programming mode:

To enter programming mode, simply enter your 4 digit master code number and press the 'E' key.

(MASTER CODE) E

Note: the factory default master code is 1234E.

If the code is valid you should hear a rising beep to indicate that programming mode has been entered, and the red LED on the controller should flash quickly. If the code is not valid the keypad will beep twice quickly.
The controller will also automatically exit programming mode after a few minutes.

Set the Door Release Times:

The Door relay trigger time can be set from 1 to 30 seconds. The command is

2 * 1 * (TRIGGER TIME) E

For example, to set the time on door 1 to 3 seconds you would enter the commands

2 * 1 * 3 E

Invert the Relay Contact:

The door relays can configured to work with locks that require power to open (fail secure) and locks that require power to lock (fail safe). The command is:

6 * 1 * (RELAY STATE) E

Relay state: **0** for power fail secure (default),
Relay state: **1** for power fail safe

For example, set door 1 for fail safe operation

6 * 1 * 1 E

SYSTEM PROGRAMMING

To make any changes in the system you must be in programming mode (LED2 is flashing fast) – see above.

Program or Delete a Key:

This command allows you to assign a key to an access level (see access level groups below).

1 * (KEY NUMBER) * (ACCESS LEVEL) E

For example, to add key 100 with access to trigger door 1 you would enter

1 * 100 * 3 E

Keys can be programmed to trigger one or toggle (unlock/relock) the door. Each key has an associated 'access level' which defines the capabilities of that key. The access levels are predefined as listed below:

Access level	Door 1 trigger	Door 1 toggle
0		
3	YES	
12		YES

(Note: To Delete a user you give that key Access Level 0).

Bulk Program or Delete Keys:

It is also possible to program many keys in bulk. It requires two commands:
First, *set the required access level with the command*:

3 * (ACCESS LEVEL) E

For example, to set the bulk access level to access level 3 (trigger door 1), the command would be

3 * 3 E

Finaly, *select the key range with the command*:

4 * (START KEY NUMBER) * (NUMBER OF KEYS) E

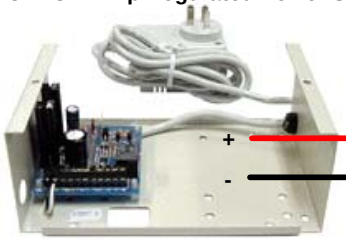
For example, to bulk program 450 keys numbered 100 to 550 enter the command

4 * 100 * 450 E

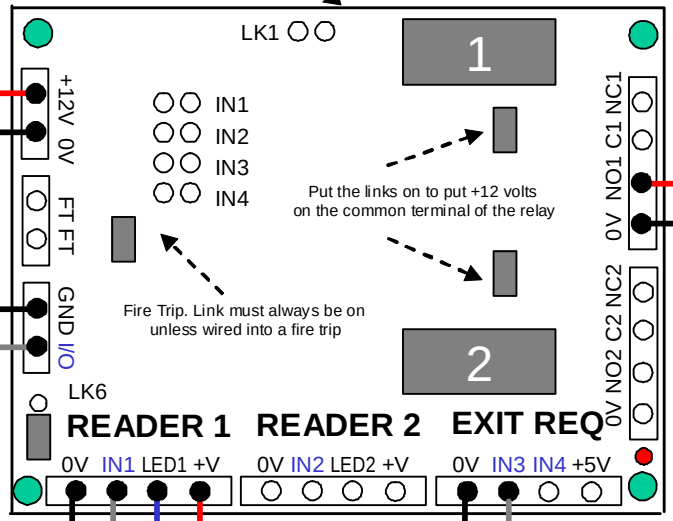
Programming bulk keys takes the controller a few seconds; once the keys are programmed it will beep 10 times.

4828: iKey 1 Door Kit Wiring Diagram

13.8VDC 1 Amp Regulated Power Supply



LK1 - ON to set master code and site code
OFF for normal operation



Door 1 Lock

GROUND

Relay Cabling: Use Figure 8 cable.

Diodes shown above are 1N4001 or similar. You must fit a diode across the coil of any electric lock or mag-lock. (A diode is included with each silicon key reader).

Programming Keypad

GND (Black)
I/O (White)

IN1-4 always off, LK6 down.

DOOR 1 READER CONNECTIONS

0V (Black Wire)
IN1 (White Wire)
LED1 (Blue Wire)
+V (Red Wire)

Door 1 exit button
(normally open)

Reader Cabling: Use CAT5 cable. Maximum 50 meters.

If you reverse the relay contact (make the relay normally open), connect the **yellow** cable (Red LED) to the controller LED pin instead of the blue cable.

Note: The green LED will normally be off and will turn green when then the door is released.

The keys included in the pack have been encrypted with a unique site code number.

The controller will only accept cards with this unique site code.

This site code must be loaded into the controller before it will recognise the cards.

To set the controllers site code:
- Connect a link across **LK1**.
- Simply touch one of the keys to either reader, this will make the controller beep 5 times to indicate that the site code has been read from the key and stored in the controller.
- Remove **LK1** when finished.

When ordering extra keys the same restricted site code number must be quoted (see the red sticker for the details)