CK-8812

Waterproof & Vandal-Resistant
RFID Proximity Access Control System

User Guide

Revision 3

Introduction

The CK-8812 door access system complements our multi-apartment door entry systems perfectly and allows the user to open the door using a keyfob, password, or keyfob plus password.

Specification

Working Voltage.....12V DC

±10% Unlock current.....up

to 2A Reading distance.....0 –

2cm

RF Type .....EM 125kHz

Working temperature.....-10℃ to

+45℃ Humidity range 20%

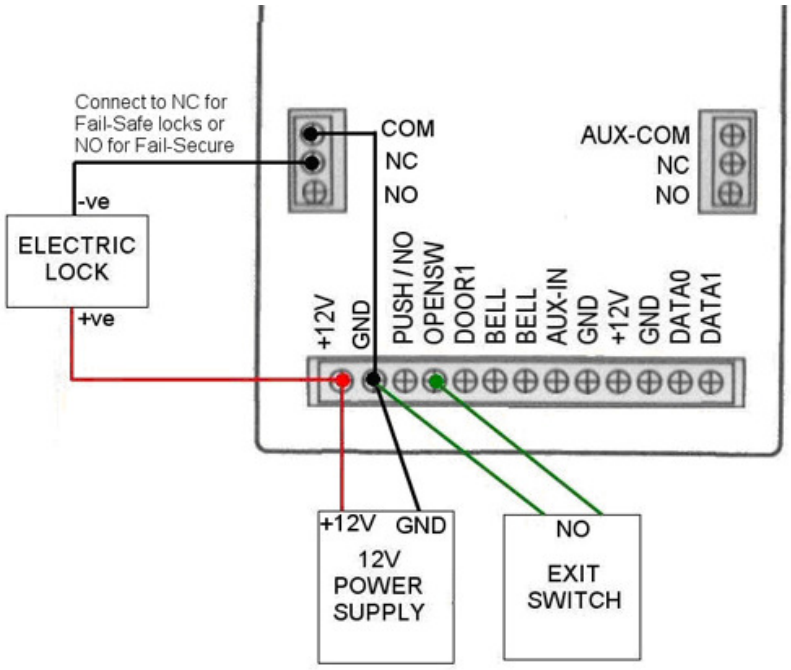
to 90% RH Dimensions.....

120 x 75 x 27mm

Factory Defaults

Programming PIN	881122
Public PIN	1234
Door Open Mode	Keytag or Public PIN
Private PIN	0000
Unlock Time	3 seconds
Anti-break Alarm	Open
Magnetic Alarm	Off
Lock Status	Off
Alarm Delay	0 seconds
Modify Private PIN	Off

Connecting the CK-8812 System



1. Connect 12V DC power to pins 1 & 2, observing correct polarity
2. Connect the GND signal to the COM connector
3. Connect the +ve side of the lock to +12V from the keypad
   a. For Fail-Safe locks, connect –ve of lock to NC on keypad b. For Fail-Secure locks, connect –ve of lock to NO
4. Connect the normally open lock output from a Door Entry System or a door switch (or both) to GND and OPENSW
5. If a door bell unit is required, connect to pins marked BELL. These form a high resistance switch (around 150 ohms) so you may need a relay to activate the bell.

Configuring the System

A. Entering & Exiting System Configuration mode
B. Changing the master password
C. Add new Keyfob
D. Select Door Open Mode
E. Enable/Disable Changing Private PIN
F. Change Private PIN
G. Change Public PIN
H. Set door open time
I. Delete a Keyfob
J. Reset to Programming PIN
K. Reset to Defaults / Delete all Keyfobs
L. Anti-Break Setting
M. Door Contact Sensor
N. Door Sensor Alarm
O. Alarm Delay Time

A: Entering System Configuration Mode

1. Normal operation mode -> 
2. Press the [#] key
3. Then press the 6-key master password (default is 881122)
4. Now in system configuration mode -> 
5. In this mode you can perform all the configurations you need, without exiting the mode
6. To exit configuration press [#] key again -> 

B: Changing the Master Password

1. Enter system configuration mode (see A above)
2. Press 0 -> 
3. Enter new 6-key password (eg. 325761)
4. Re-enter the new 6-key password -> 3 beeps (4 beeps is failure)
5. New master password is accepted -> 

C: Add New Keyfob

1. Enter system configuration mode (see A above)
2. Press 5 -> 
3. Enter the 3 digit unique User ID -> 2 beeps. Note that this MUST be unique and between 001 and 999. Please remember which keyfob is which number.
4. Place user's keyfob near the keypad -> 1 beep, then 2 beeps
5. New keyfob user has been added
6. To add more keyfobs/users, simply pass the keyfobs over the keypad one at a time. They will be added with increasing unique user numbers in sequence.
7. If the buzzer sounds four times and lights return  then the user was already logged into the system. Try deleting the user, then re-adding
8. The default private PIN for each user is 0000

D: Select Door Open mode

1. Enter system configuration mode (see A above)
2. Press 1 -> 
3. Press 0 to select keyfob OR PIN entry -> 3 beeps
4. OR Press 1 to select keyfob AND Private PIN entry -> 3 beeps
5. In mode 0 the keyfob can allow entry or either PIN will allow entry. In mode 1 the keyfob must be presented and the private PIN must be entered on the keypad.

E: Enable/Disable Changing Private PIN

1. Enter system configuration mode (see A above)
2. Press 1 -> 
3. Press 2 to Disable changing private PIN -> 3 beeps
4. OR Press 3 to Enable changing private PIN -> 3 beeps
5. If the Private PIN is not changed from 0000, then it cannot be used for door opening. .

F: Change Private PIN

1. From Normal Operation mode (do not enter configuration mode)
2. Press and hold [#] -> Beep, 2 beeps 
3. Present Keyfob to the Keypad -> 
4. Enter old 4-digit Private PIN (default is 0000) -> 2 beeps
5. Enter 4-digit new Private PIN
6. Re-enter the 4-digit Private PIN to confirm -> 3 beeps
7. Private PIN has been changed

G: Change Public PIN

1. Enter system configuration mode (see A above)
2. Press 3 -> 
3. Enter 4-digit new Public PIN -> 3 beeps
4. Public PIN has been changed

H: Set Door Open Time

1. Enter system configuration mode (see A above)
2. Press 2 -> 
3. Press 2 keys for door open time in seconds. So, for the lock to remain open for 5 seconds, enter 0 then 5 -> 3 beeps
4. Door open time is changed

I: Delete a Keyfob

1. Enter system configuration mode (see A above)
2. Press 7 -> 
    a. Either place the keyfob to be deleted on the reader
    b. Or enter the 3-digit unique code for the card
3. Repeat step 2 as often as necessary
4. Press [#] to finish deleting keyfobs

J: Reset to Default Programming PIN

1. Remove power from the Keypad
2. Open the back of the Keypad
3. Short across the two pins of Jumper S2 (top left of PCB)
4. Replace power to Keypad -> 3 beeps
5. Remove power and remove short from S2
6. Replace the back of the Keypad
7. Replace power
8. Programming PIN is reset to 881122

K: Reset to Defaults

1. Enter system configuration mode (see A above)
2. Press 8 -> 
3. Press 6 -> 3 beeps
4. Wait 6 seconds while the unit initialises -> 
5. All PINs and password are set to default. All keyfobs are deleted from memory, EXCEPT keyfob with unique code of 001 which is preserved for security reasons. If you add a keyfob with this value, keep it safe as it won't be deleted using this command

L: Anti-Break Setting

1. Enter system configuration mode (see A above)
2. To Disable anti-break, press 4 then press 0
3. To Enable anti-break, press 4 then press 1

M: Door Contact Sensor

1. Enter system configuration mode (see A above)
2. To Disable door sensor, press 6 then press 0
3. To Enable door sensor, press 6 then press 1

N: Door Sensor Alarm

1. Enter system configuration mode (see A above)
2. To Disable door sensor alarm, press 8 then press 0
3. To Enable door sensor alarm, press 8 then press 1
4. After turning on this alarm, the controller will beep continuously if the door is not shut after opening, or if the door is opened without using the controller

O: Alarm Delay Time

1. Enter system configuration mode (see A above)
2. Press 8 then 2 followed by two keys giving the delay time in seconds. Eg. If the delay is to be 5 seconds, then enter 0 then press 5
3. This function should be used to set the delay if the door sensor alarm is enabled

P: Connector Descriptions

Connector	In/Out	Description
+12V	In	+12V Input from power supply
GND	In	Ground line
PUSH / NO	Out	Connected to ground when unlock
OPENSW	In	Connect to ground to activate unlocking
DOOR1	In	Door contact sensor input
BELL (* 2)	Out	Contacts of bell button – high resistance
GND	Out	Ground output for external reader
+12V	Out	+12V output for external reader
DATA0/1	In	Data inputs from external reader
COM/NC/NO	Out	Lock outputs
AUXCOM	Out	Alarm outputs