

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

QUICK REFERENCE GUIDE

1. Using the User Codes:

A. User codes operate the door (4-8 digits long).

Press

B. The key must be pressed also if the keypad is in manual-entry mode.

Press

Note:
indicates user code.

Note:
indicates master code.

2. Using the Master Code:

The Master Code can be used to operate the door or program the keypad (4-8 digits long, see section 5 below).

Press (Output #1)

Press (Output #2)

3. Using the Inhibit/Lockout Code

Please contact your installer for an explanation of inhibit mode and its operation.

4. Using Duress Codes

For a full explanation of duress codes and their uses, see pg. 12.

5. Delete/Add/Change User and Master Code

WARNING – Press the correct option key. If the option key is not used and a “0” is pressed after entering the Master Code, it could accidentally reprogram the Master Code.

A. Enter the Master Code first, followed by the key.

(If you forgot the master code, see page 15 for more information.)

Press

B. Changing/Adding Users:

Press 00-99 (user ID) (user code, 4-8 digits) (for output #1)

Press 0-9 (user ID) (user code, 4-8 digits) (for output #2)

C. Deleting Individual Users:

Press 00-99 (user ID) (for output #1)

Press 0-9 (user ID) (for output #2)

D. Changing the Master Code:

Press (Where is the new master code.)

E. To exit programming mode, press the key.

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ENFORCER® ACCESS

MANUAL

Flush-Mount Outdoor Access Keypad SK-1123-FQ



Also available from SECO-LARM:

Indoor Keypads



SK-1011-SQ

SK-1131-SQ

Outdoor Keypads



SK-1123-SQ

SK-2123-SQ

SK-3123-SQ

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ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

TABLE OF CONTENTS

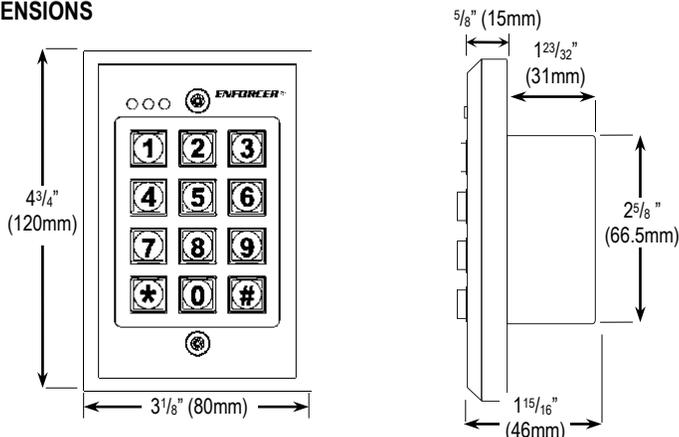
Introduction.....	2
Dimensions.....	2
Unique Features.....	3
Wiring – Basic Diagram.....	4
Specifications.....	5
Output 2 (NPN Transistor Open Collector).....	6,7
Wiring – Example, with Connection to Lock Device and Alarm Arm/Disarm.....	7
User Code Worksheet.....	8,9
Wiring – 2 Keypads with Mantrap Interlock.....	10
Wiring – Auxiliary Accessories.....	11
Programming Notes.....	12
LED Indicators.....	12
Preparing to Program.....	13
Getting Started.....	13
User Programming.....	13
Installer Programming.....	14
Reprogram the Keypad (Select Data).....	15
Reprogram the Keypad (Complete Data Refresh).....	15
Delete User.....	15
Master Code Bypass (DAP jumper).....	15
Quick Reference Guide.....	16

INTRODUCTION

The SK-1123-FQ is the ideal keypad for office, commercial, and home security installations. This self-contained security keypad has a built-in 5-Amp relay output and a 100mA transistor ground output for maximum flexibility when connecting to electronic door strikes, door alarms, door chimes, alarm control panels, or other security and access control applications. The outputs can be programmed for timed (1~999 seconds) or ON/OFF operation.

The SK-1123-FQ can be programmed for up to 100 4-digit to 8-digit user codes for the primary output, and up to 10 4-digit to 8-digit user codes for the secondary output. All programming and code information is stored in non-volatile EEPROM memory to protect the data in case of power loss.

DIMENSIONS



PARTS LIST

- Keypad x 1
- Diode x 1
- Security screw x 2
- Security wrench x 1

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

REPROGRAM THE KEYPAD (SELECT DATA)

To change certain data in the keypad (such as to delete or change user codes), do the following:

1. Enter programming mode by keying in the master code and the [*] key:
[x][x][x][x][*] The keypad is now in the programming mode.
2. Use the programming instructions on page 13 and 14 to make desired changes to the keypad's data.
3. Exit the programming mode by pressing the [*] key.

REPROGRAM THE KEYPAD (COMPLETE DATA REFRESH)

Sometimes it may be necessary to completely erase all current data (except the master code) and input new data. An example of when this may be necessary is the sale of a protected building to a new owner. In such a situation, do the following:

1. Enter the programming mode by keying in the master code and the [*] key, then enter the refresh code, [8][9][0][1] and the [#] key:
[x][x][x][x][*] The keypad is now in the programming mode.
[8][9][0][1][#] All old data is cleared and the keypad is ready for new data.
Note: The master code does NOT change.
2. Use the programming instructions on pages 13 and 14 to enter the keypad's data.
3. Exit the programming mode by pressing the [*] key.

DELETE USER

To delete a user who no longer has authority to enter the protected area:

1. Enter program mode by keying in the master code and the [*] key:
[x][x][x][x][*] The keypad is now in the programming mode.
2. Enter the output #, user ID number, and the [#] key.
To delete user ID 05 from output #1, press [1][0][5][#]
To delete user ID 1 from output #2, press [2][1][#]
3. Exit the programming mode by pressing the [*] key.

MASTER CODE BYPASS (DAP JUMPER)

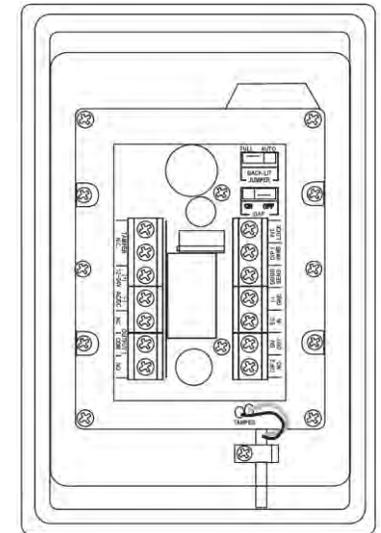
If the master code has been forgotten or does not work, use the DAP (direct access to program) jumper to override the forgotten code and permit direct entry into the programming mode as follows:

1. Disconnect the power supply.
2. Move the DAP jumper from OFF to ON.
3. Reconnect the power supply.
The keypad will start beeping.
4. Move the DAP jumper back to the OFF position. The keypad will stop beeping as soon as the jumper is removed.
5. Key in a new master code as follows:

Option*	Key in New Code	Confirm	Exit
[0]	[x][x][x][x]	[#]	[*]

*Zero "0" is for new master code only; see page 13 and 14 for other options.

Note: DAP reset does not change any previously configured settings. DAP will only give direct access to programming by bypassing the master code requirement.



ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

INSTALLER PROGRAMMING

These functions should only be used by professional installers, as incorrect entries can disable the entire keypad function.

1. Enter Programming Mode

(DEFAULT: 0000)

Enter Master Code	Confirm	Function
X X X X	*	Enter into programming mode

Note: After entering programming mode, proceed to desired programming option.

*Key in the Master Code. For first-time use, Master code is 0000

2. Data Refresh

Option	Confirm	Function
8 9 0 1	#	Clears all previously stored data except for the master code.

3. Configure Outputs

(DEFAULT: Momentary, 1-second output for both outputs)

Option	Output Time	Confirm	Function
4 0	1 to 999	#	Output #1, momentary mode, from 1 to 999 seconds
4 1		#	Output #1, shunt mode (ON/OFF)
5 0	1 to 999	#	Output #2, momentary mode, from 1 to 999 seconds
5 1		#	Output #2, shunt mode (ON/OFF)

Note: Output time must be entered for options 40 and 50.

4. Wrong Code Lockout

(DEFAULT: 10 tries / 30 seconds)

Option	# of Tries	Confirm	Function
7 0		#	After 10 successive wrong codes, 30-second lockout
7 1		#	After 10 successive wrong codes, Duress activated
7 2	5 to 10	#	After 5 to 10 wrong codes, 15min lockout – Can reset with Master Code
7 6 0 0		#	No wrong code lockout

Note: # of tries must be entered for option 72.

5. Door-Forced-Open Alarm

(DEFAULT: Disabled)

Option	Code Entry	Confirm	Function
8 0	1	#	Door-forced-open alarm is enabled
	0	#	Door-forced-open alarm is disabled

6. Door Unlocked Annunciation

(DEFAULT: On)

Option	Code Entry	Confirm	Function
8 1	1	#	1-second beep notifies the user to open the door when the output relay is activated with the user code or request-to-exit button. Use with a locking device that gives no sound when it activates, such as a magnetic lock.
	0	#	The beep is disabled, replaced by 2 short beeps for valid user codes.

7. User Code Entry Mode

(DEFAULT: Manual)

Option	Code Entry	Confirm	Function
8 2	1	#	Auto Entry Mode is selected. The # key that follows the user code is NOT required in code entry. All User Codes MUST be set to the same digit length as the Master Code, from 4-8 digits.
	0	#	Manual Entry Mode is selected. The # key that follows the user code is required in code entry. The User Codes can be any length between 4-8 digits.

8. Keypress Beeps

(DEFAULT: On)

Option	Code Entry	Confirm	Function
8 3	1	#	Keypad beeps when a key is pressed.
	0	#	Silent operation – keypad does not beep when a key is pressed unless in programming mode.

9. Door-Propped-Open Alarm Timer

(DEFAULT: Off)

Option	Seconds	Confirm	Function
9	0	#	No door-propped-open alarm
	1 to 999	#	Allowable time from 1 to 999 seconds that the door can be left open before the door-propped-open alarm starts.

Note: Allowable time must be entered.

10. Exit Programming Mode

Confirm	Function
*	Exits programming mode, returns keypad to normal operation

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

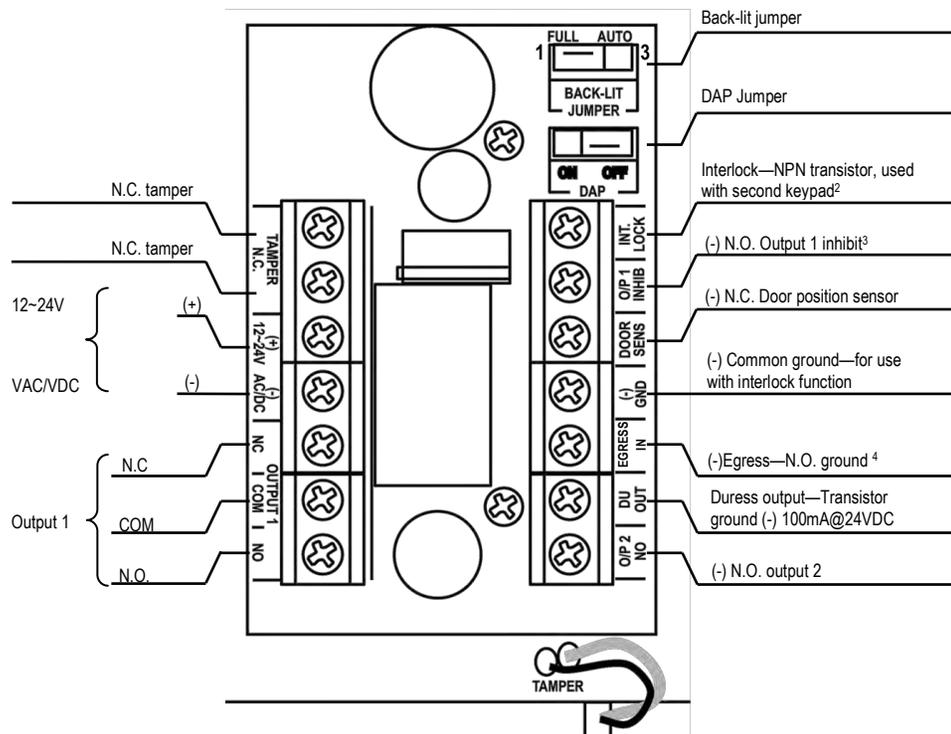
UNIQUE FEATURES

- **12~24V AC/DC universal power** – No programming or jumpers needed.
- **Mantrap (Interlock)** – When used in pairs and with optional magnetic contacts, keypads can protect an area with two doors by ensuring that only one door can be opened at a time. With the mantrap function enabled, when a user opens one door, a signal is sent to disable the second keypad, thereby preventing access through the second door until the first one is closed.
- **Output #1 inhibit control** – Relay output #1 is typically used for a door strike. If the inhibit control terminal is tied to ground, relay output #1 will not operate. This increases the security of the protected premises during the time it is not expected to be occupied, such as during evening or weekend hours. Control either by connecting output #2 or another switching device to the inhibit control terminal (see example on page 6).
- **Door-forced-open warning** – When used with an optional magnetic contact, the keypad will beep continuously for 60 seconds if the door to the protected premises is forced open without using a valid user code. The warning can be stopped any time by entering a valid code.
- **Door-propped-open warning** – When used with an optional magnetic contact, the keypad beeps continuously if the door is propped open for longer than the allowed open time. The allowable open time is programmable from 1~999 seconds. The warning stops when the door is reclosed.
- **Door-hold open mode** – Output #2 can be programmed to hold the door open if it needs to remain open for an extended length of time.
- **Auto or manual code entry checking:**
 - Auto code entry checking mode – The keypad can be programmed to activate automatically when the code is entered without the need to press the “#” key. All user codes must be the same length as the master code. This mode is more convenient for users.
 - Manual code entry checking mode – The user codes can vary in number of digits, and the user must press the “#” key when finished entering the code. This mode increases security.
- **Door auto relock (anti-tailgating)** – The keypad will relock an open door either when the relock time expires or immediately after the door is closed, depending on which occurs first. This prevents unwanted “tailgate” entries, which can happen if an unauthorized person tries to follow an authorized person through the door.
- **Alarm system arm-disarm control** – The keypad can be wired to an alarm control panel so that an authorized user can arm or disarm an alarm system using the keypad.
- **Duress output** – This NPN transistor open collector ground (-) output can be used to trigger a silent alarm if an authorized user is forced under duress to use the keypad. The duress output is activated by adding 2 to the first digit of any user code for output #1. When entered, the code opens the protected door as it would normally, but a signal is quietly sent to a remote device to call for help without alerting the unauthorized person.
- **Backlit keypad** – The keypad is backlit to increase nighttime visibility. Backlight can be programmed to remain off until all keys are pressed, or remain on at a dim setting, increasing to full brightness when keys are pressed.

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

WIRING, BASIC DIAGRAM

The ENFORCER SK-1123-FQ has backlit keys that can be programmed for different applications. The keypad can be always illuminated (FULL), or illuminated only during user activity (AUTO). To verify or change the settings, refer to the table below.



ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

PREPARING TO PROGRAM THE KEYPAD

To program the SK-1123-FQ, first determine the following information:

1. The master code – Allows the system administrator to program or operate the keypad.
2. The user code or codes – Allows users to use the keypad’s functions. Use the chart on pages 8 and 9 to organize.
3. Configuration of the relays and outputs – For relay output #1 and output #2, determine whether the output should operate from 1 to 999 seconds and then turn OFF (momentary mode), or turn ON/OFF via the code (shunt mode). Use the chart on pages 8 and 9 to organize.
4. Result of improper code entry (optional) – Choose between a 30-second code lockout, duress output, a 15-minute code lockout, or no reaction.

*Note: When appears in the instructions, it indicates master code entry.

GETTING STARTED

A master code is required to program the keypad. The default master code is set to “0000.” To change a forgotten master code, go to page 15 and follow the instructions for “MASTER CODE BYPASS” (DAP jumper).

Once the master code is set, review the programming options and decide exactly what the keypad will do, including the format of the user access codes as well as how the keypad responds via the relay output, buzzer and LEDs. Note that in every case the basic steps for programming are:

1. Enter the master code, followed by the * key, which puts you in programming mode.
2. Enter the programming options defined in the various sections as needed, followed by the # key.
3. Enter the * key again to exit programming mode.

Note: A rapid string of 5 beeps and/or 5 LED flashes indicates an error, while 2 beeps indicates that the entry has been accepted.

USER PROGRAMMING

ENTER PROGRAMMING MODE

Enter Master Code	Confirm	Function
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> *	Enter into programming mode

ADDING OR CHANGING MASTER AND USER CODES

WARNING – Press the correct option key. If the option key is not used and a “0” is pressed after entering the Master Code, it could accidentally reprogram the Master Code.

Option	User ID	Access Code	Confirm	Function
<input type="checkbox"/> 0		4 to 8 digits	<input type="checkbox"/> #	Change Master Code
<input type="checkbox"/> 1	00 to 99	4 to 8 digits	<input type="checkbox"/> #	Set/change up to 100 User Codes for output #1, with duress feature
<input type="checkbox"/> 2	0 to 9	4 to 8 digits	<input type="checkbox"/> #	Set/change up to 10 User Codes for output #2

Note: User D must be entered for options 1 and 2.

DELETE A USER

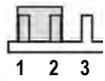
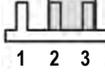
To delete a user who no longer has authority to enter the protected area:

Option	User ID	Confirm	Function
<input type="checkbox"/> 1	00 to 99	<input type="checkbox"/> #	Deletes specific user ID from output #1
<input type="checkbox"/> 2	0 to 9	<input type="checkbox"/> #	Deletes specific user ID from output #2

Note: User D must be entered for options 1 and 2.

EXIT THE PROGRAMMING MODE BY PRESSING THE * KEY

Back-Lit Jumper

Setting	Jumper Position	Description
FULL (default)		<ul style="list-style-type: none"> Keypad standby mode is dimly backlit. Keypad brightens to full illumination for 10 seconds after each key is pressed, then returns to dim backlit (standby mode).
AUTO		<ul style="list-style-type: none"> Keypad standby mode is not lit. Keypad brightens to full illumination for 10 seconds after each key is pressed, then turns off again (standby mode).

¹For DC, connect to a regulated power supply. Polarity of the regulated power supply must be correct. For AC, polarity is not important.

²Mantrap control output – Outputs ground (-) for five seconds after relay output #1 is activated, continues while the door is open.

³Connect to ground (-) to prevent relay output #1 from operating, or to the mantrap (interlock) control output of another keypad to disable output #1 while the other keypad is active.

⁴Connect to optional N.O. push button or switch.

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

PROGRAMMING NOTES

1. **Master Code:** The SK-1123-FQ comes pre-programmed with the Master Code set at 0000. Additional codes and/or data should be programmed at the owner's discretion. However, to ensure security, program a new Master Code to replace the factory-set Master Code as soon as possible.

2. **Factory defaults:**

Master code	0000	Door-forced-open alarm	Disabled
User code length	4-8 digits	Door unlocked annunciation	ON
Output #1 time	1 second	User code entry mode	Manual
Output #2 time	1 second	Keypress beep	ON
Wrong code lockout	10 tries / 30 sec.	Door-propped-open alarm	OFF
Door-forced-open alarm	Disabled	Silent operation	OFF

3. **Code operation:** User codes are each four to eight digits and are assigned a two-digit ID. If all the codes have the same number of digits, the keypad can be programmed for auto code checking. The **[#]** key need not be pressed after entering a code (see programming option 82, page 14, section 7).

The administrator can easily delete the code of a single user via the two-digit ID if the user is no longer authorized to enter a protected area.

Relay output #1 allows up to 100 user codes, and output #2 allows up to 10 user codes.

4. **Using Duress codes (relay output #1 only):** Duress codes are used to activate a separate device silently to alert a guard or other personnel that a user is operating the keypad under threat. The keypad operates as normal, but a silent signal is sent to alert others. Duress codes do not need to be programmed. All user codes are automatically turned into duress codes by increasing the first digit of a user code by the number 2. The code is entered the same way as a regular user code.

For example:

User code 4468 can be entered as duress code 6468

User code 9843 can be entered as duress code 1843

User code 8181 can be entered as duress code 0181

NOTE: If a user code is programmed, its duress code is unique and cannot be programmed as another user code. For example:

If user code 4468 is programmed, its duress code of 6468 is automatically programmed. A user code of 6468 cannot be programmed.

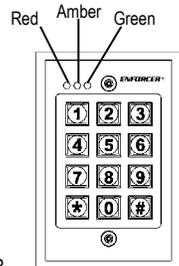
Note: Once activated, the duress output continues until a correct user code is entered.

LED INDICATORS

- Red LED – Illuminates while output #2 is activated.
- Amber LED – Flashes to show the keypad status (see below).
- Green LED – Illuminates while output #1 is activated.

BUZZERS AND LED SIGNALS

STATUS	BUZZER TONES*	AMBER LED FLASHES
1. In programming mode	---	ON
2. Successful key entry	1 beep	1 flash
3. Successful code entry	2 beeps	2 flashes
4. Unsuccessful code entry	5 beeps	5 flashes
5. DAP jumper not replaced	Continuous beeps	Continuous flashes
6. In standby mode	---	1 flash in 2-sec intervals
7. Output relay activated	1-sec long beep**	---



NOTE: *The buzzer can be disabled through programming option 83, see pg. 14, section 8.

**The output relay activated beep can be disabled through programming option 81, see pg. 14, section 6.

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

SPECIFICATIONS

Power:

- Operating voltage – 12~24 Volts AC/DC. No jumper needed to set voltage.
- Stand-by current drain – 10mA@12VDC.
- Active current drain (press keypad key) – Under 45mA@12VDC.
- Active current drain (one relay activated) – Under 100mA@12VDC.

Outputs:

- Output #1 – 5A@30VDC max. rating, Form “C dry contact”, NO/COM /NC. Programmable for 1 to 999 second timed output or shunt (ON/OFF) output. Three terminals.
- Output #2 – 100mA@24VDC max. rating. Transistor ground output programmable for 1 to 999 second momentary output or shunt (ON/OFF) output. One terminal.
- Mantrap (interlock) control output – 100mA@24VDC. NPN open collector switches to ground (-) for five seconds after relay output #1 is activated, continues while the door is open. Use to disable a second keypad during this time. Single terminal.
- Duress output – 100mA@24VDC. NPN open collector switches to ground when active. Single terminal.

Inputs:

- Power – 12~24 Volts AC/DC. Two terminals.
- Egress – N.O., ground (-). Single terminal.
- Door sensor input – N.C., ground (-). Connect to an N.C. magnetic contact to show if door is opened or closed, or connect to ground (-) if not used. Single terminal.
- Relay output #1 disable input – Connect to ground (-) to prevent relay output #1 from operating, or to the mantrap (interlock) control output of another keypad to disable output #1 while the other keypad is active. Single terminal.

Other Features:

- Tamper – 50mA max., N.C. dry contact. Connect to the tamper circuit of alarm control panel. Two terminals.
- Common ground (-).

Code Operation:

- Auto or manual code entry. Up to 100 user codes for output #1, up to 10 user codes for output #2. Over 100 million possible user code combinations.

Auto Reset Time During Code Entry:

- Max. 10 seconds to enter each digit.
- Max. 30 seconds to enter each code.

Dimensions:

4³/₄"x3¹/₈"x1¹⁵/₁₆" (120x80x46 mm)

Weight:

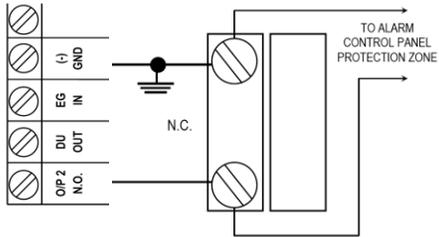
11-oz (300g)

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

OUTPUT 2 (NPN TRANSISTOR OPEN COLLECTOR)

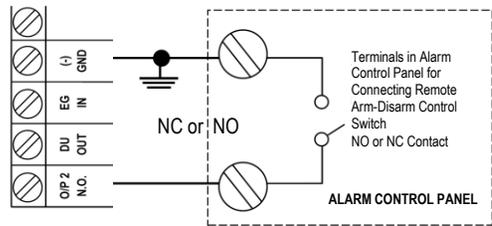
The Output 2 is an NPN transistor open collector output controlled by User Code 2, and can be used for some auxiliary controls. It is equivalent to an N.O. output rated 100mA @24VDC.

1. Shunting an N.C. Protection Zone



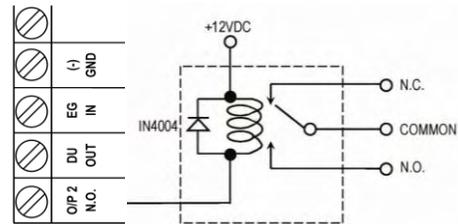
- Use output #2 to shunt an N.C. protection zone.
- Set output #2 to ON/OFF Mode (See pg.14, section 3, programming option 51).

2. Alarm System Arm-Disarm Control



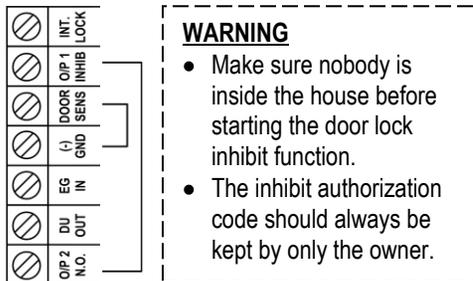
- Refer to your alarm control panel manual to determine whether the arm-disarm control is NC or NO.
- Set output #2 to momentary mode for multi station systems or ON/OFF mode for single-station systems. See page 14, section 3 for programming options.

3. Drive an Optional Output Relay



- Use a 12VDC relay and connect it to the same 12V power supply as the keypad.

4. Connecting Inhibit Control



WARNING

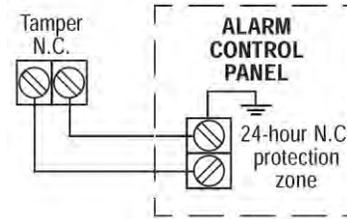
- Make sure nobody is inside the house before starting the door lock inhibit function.
- The inhibit authorization code should always be kept by only the owner.

- Using this setup, the owner may enter the user code for output #2 to disable output #1 during a certain period to prevent unauthorized access.
- Set output #2 to ON/OFF mode (pg.14, section 3, programming option 51).
- Connect the O/P 1 INHIB terminal with the O/P 2 N.O. terminal as shown in wiring diagram. User code #1 is invalid while the O/P 1 INHIB terminal is shunted to ground via user code #22.

ENFORCER FLUSH-MOUNT OUTDOOR ACCESS KEYPAD

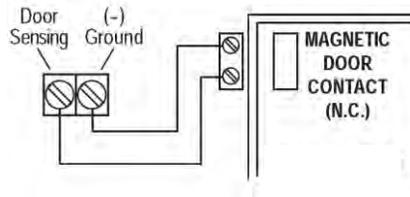
WIRING – Auxiliary Accessories

1. Tamper N.C.



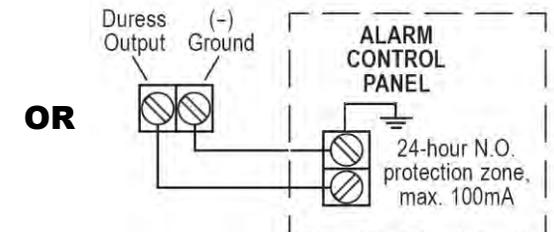
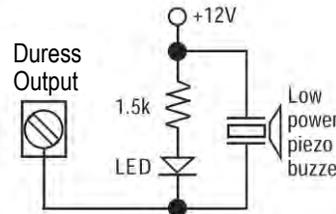
When the keypad is secured in the single-gang box, the tamper switch is in the closed position. When the keypad is removed, the tamper switch will open. Connect the terminals to a 24-hour N.C. alarm system protection zone if required.

2. Door Sensing



- Auto Relock** – The door will relock after granting access to prevent “tailgate” entries.
- Forced-Open Alarm** – Alarm will go off instantly if the door is forced open. Enable this function with programming option 801 (found on pg.14).
- Door-Propped-Open Alarm** – Alarm will go off if the door is left open longer than the programmed delay time. Enable this function with programming option 9 (1~999 seconds).
- Mantrap (Interlock) Control** – When the door is open, the interlock output of the keypad will switch to ground to disable the other keypads.

3. Duress Output

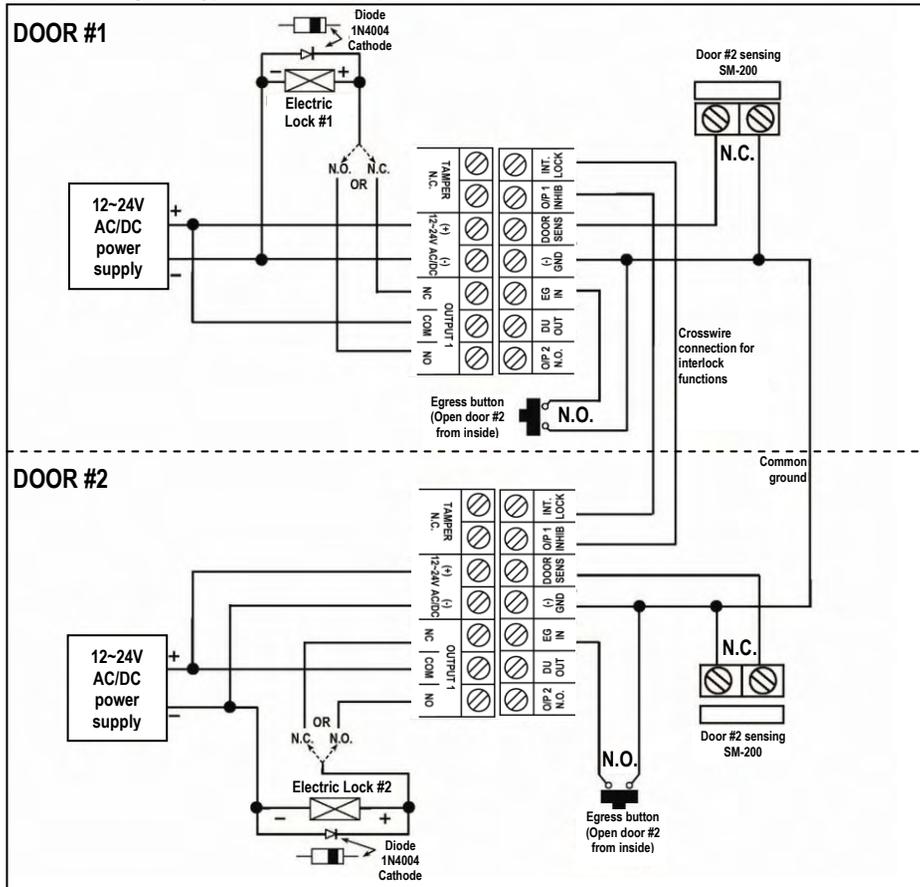


When a duress code is entered, the duress output will switch to (-) ground. It can trigger a connected LED lamp or small buzzer to notify a guard, or connect it to a 24 hour N.O. alarm system protection zone.

NOTE: Only one connection option is recommended. Output current must not exceed 100mA.

WIRING

Example Wiring, 2 Keypads with Mantrap Interlock

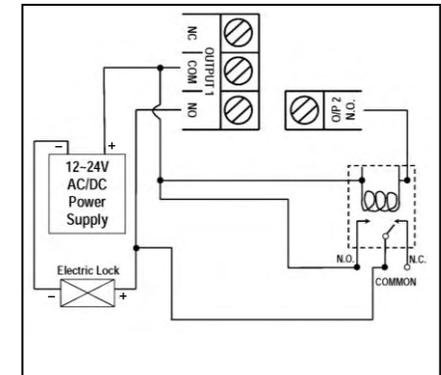
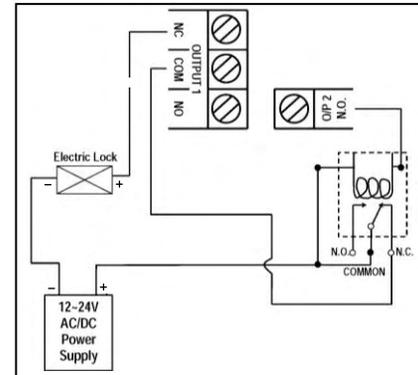


Mantrap (Interlock) – Each keypad can be used as a stand-alone keypad. The mantrap feature is for a protected area with two doors to ensure only one door can be opened at a time. With the mantrap feature enabled, when a user opens one door either by entering a code or with a request-to-exit button, a signal is sent to the second keypad to disable it, thereby preventing access through the second door until the first door is closed.

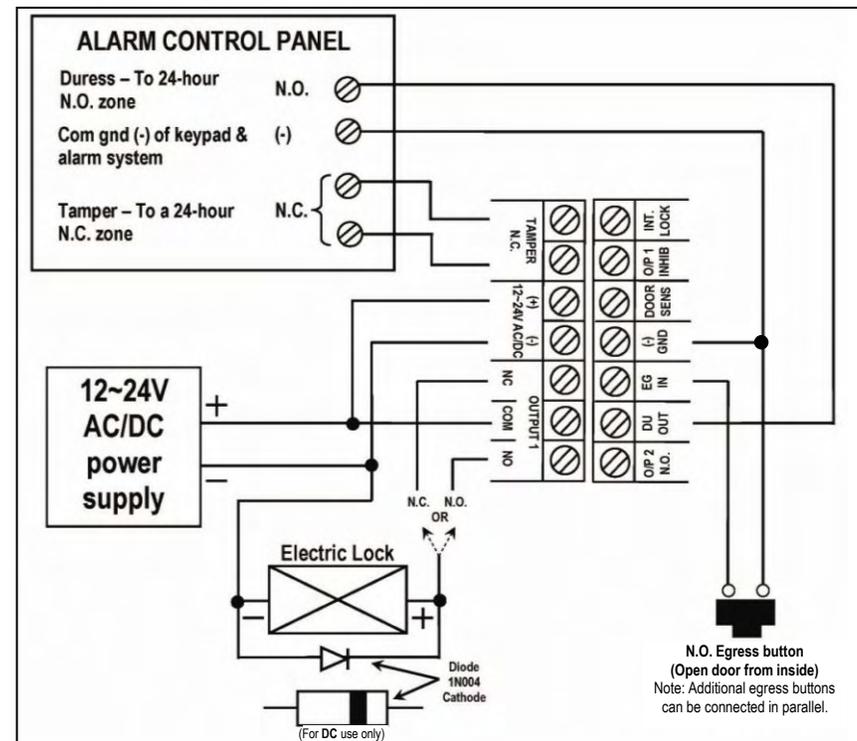
- Use an N.C. magnetic contact or some other N.C. device to detect whether a door is opened or closed. Do this for the two doors being protected.
- Combine this wiring diagram with the diagram on page 7 if connection to an alarm control panel is required.
- To use the mantrap feature:
 - Use either the keypad from outside or the egress button from inside the protected premises to open one of the two doors.
 - While the first door is opened, the first keypad sends a signal to the second keypad to prevent the second door from being opened.
 - Once the first door is closed, both doors are ready to open again.

5. Door-Hold-Open Mode

- For N.C. locking devices: Connect a relay to output 2 in series with the locking device.
- For N.O. locking devices: Connect a relay to output 2 in parallel with the locking device.



WIRING – Example Wiring, with Connection to Lock Device



- Connect the duress output to a 24-hour N.O. zone and the tamper output to a 24-hour N.C. zone on the alarm control panel.
- The keypad's terminal ground (-) connects to the ground (-) wire of the alarm control panel to enable the two to work together.

SK-1 123FQ – User Code Chart

Relay Output #1: Output: Shunt / Momentary (____secs.) Programmed For _____

USER ID	User Name	Access Code
00	SAMPLE – John Doe	54321
01		
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Output #2: Output: Shunt / Momentary (____secs.) Programmed For: _____

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8		
9		

Note: Copy this sheet to use for your installations.