

Quick Reference Guide

Note: For complete programming instructions, please see page 10, *Programming Instructions*.

Operation Function	Action
Enter an Output #1 user code	Directly enter on the keypad
Enter an Output #2 user code	Directly enter on the keypad
Ring doorbell	Press ⓧ (if programmed)
Enter Programming Mode	Enter the master code twice
Exit Programming Mode	Press ⓧ
Reset or restore the keypad	Please see full instructions on page 14
Program the proximity reader	Please see full instructions on pages 10 and 13

The following functions are performed **after** entering *Programming Mode*.

Operation Function	Step 1	Step 2	Step 3
Change the master code	Enter ⓧ 3	Enter the new Master Code twice	
Program a new Output #1 user code	Enter a 3-digit user ID (from 000-999)	Enter a user code.	
Program a new Output #2 user code*	Enter ⓧ 4	Enter a 2-digit user ID (from 00-09)	Enter a new user code.
Deleting an Output #1 user *	Enter a 3-digit user ID (from 000-999)	Enter ⓧ ⓧ	
Deleting an Output #2 user *	Enter ⓧ 4	Enter a 2-digit user ID (from 00-09)	Enter ⓧ ⓧ
Set Output #1 timer	Enter ⓧ 1	Enter number of seconds (from 00-99)	
Set Output #2 timer	Enter ⓧ 5	Enter number of seconds (from 00-99)	
Set Output #2 function	Enter ⓧ 2	Enter: 01 for user codes 02 for doorbell	
Set tamper alarm	Enter ⓧ 6	Enter: 01 for OFF 02 for ON	

*After programming these functions, press **ⓧ** to return to *Programming Mode*.

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M8K-x2323-SQ_1109.docx



Outdoor Stand-Alone Weatherproof Keypads

Manual



(SK-2323-SDQ shown)



(SK-1323-SPQ shown)

Mullion-Style Keypads

Model Number	2 Relay Outputs	Backlift Keys	Proximity Reader
SK-2323-SDQ	✓	✓	✓
SK-2323-SPQ	✓	✓	✓

Sealed-Environment Keypads

SK-1323-SDQ	✓	✓	✓
SK-1323-SPQ	✓	✓	✓



NOTE: Products with a model number that ends with "Q" or have a round green "Q" sticker represent RoHS compliant products.

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Features

- 12-24 VDC/VAC operation.
- 1,010 User codes.
- 2 Form C relays, each rated 1 Amp @ 30VDC.
- Each relay has programmable output time from 1~99 seconds or toggle.
- Output #2 can be programmed for use with a doorbell.
- 2 Egress inputs and 1 door sensor input.
- Backlit keys for easy nighttime use.
- Able to mount to a single-gang back box.
- All features are programmed directly from the keypad—no need for an external programmer.
- EEPROM memory protects programmed information in case of power loss.
- Optical tamper for added security.
- Circuitry is potted with epoxy for outdoor use.
- IP 65 weatherproof rating, rugged aluminum construction.
- Built-in proximity card reader (SK-2323-SPQ and SK-1323-SPQ only).

Specifications

Operating voltage	Standby	12-24 VDC/VAC
Current draw	1 Relay active	64mA@12VDC
	2 Relays active	92mA@12VDC
Relay outputs	Output #1	120mA@12VDC
	Output #2	1A@30VDC, Form C, NO/NC/COM
Egress inputs	Input #1	1A@30VDC, Form C, NO/NC/COM
	Input #2	N.O. ground
Door sensor input		N.O. ground
Tamper sensor		N.C. ground
Operating temperature		Optical
Keypad LED life		-4°~122° F (-20°~50° C)
		60,000 hours (over 6.8 years)
Weight	SK-1323 Series	1-lb 2-oz (510g)
	SK-2323 Series	11-oz (312g)
Proximity reader frequency		125kHz
	SK-2323-SPQ and SK-1323-SPQ only)	
Proximity reader distance (SK-2323-SPQ and SK-1323-SPQ only)		2" (5cm)



Also Available from SECO-LARM

PR-K1K1-AQ: Proximity key fobs. (Sold in packs of 10).
PR-K1S1-A: Proximity cards. (Sold in packs of 10).

Using the Keypad

For programming instructions, see page 10, *Programming Instructions*.

Entering a User Code

- To activate either Output #1 or Output #2, enter the user code directly into the keypad.
- Do not enter the user ID number. The user ID number is only used during Programming Mode.
- Example:** If a user code for Output #1 is **4321**, enter **[4][3][2][1]** to trigger Output #1.

Using a User Card

- To activate either Output #1 or Output #2 with a user card, hold the user card in front of the keypad. The keypad will beep once the user card has been read.

Using a User Card with a User Code

- If Output #1 is programmed to accept a user card with a user code, swipe the user card. Immediately enter the user code. This may be done in reverse order.

Wrong Code Lockout

- If a wrong code is entered or a wrong card is swiped 5 consecutive times, the keypad will go into lockout for 1 minute. During this time, no codes can be entered and no cards can be swiped.
- Pushing buttons or swiping cards during lockout will extend the lockout time.

Troubleshooting

The keypad will not accept user codes or user cards.

- Make sure the Output #1 Access Mode is programmed to accept user codes. (See page 11, *Setting the Output #1 Access Mode*.)
- If an incorrect card or code has been entered, the keypad may be in Wrong Code Lockout. Wait 1 minute. (See page 15, *Wrong Code Lockout*.)

The keypad will not program new user codes or user cards.

- Before inputting new code or card, check the left LED. If it is red, previous user data exists. Press **[*][*]** to delete.

The keypad will not program a new Master Card.

- Before inputting new code or card, check the left LED. If it is solid green, a Master Card is already programmed. Press **[*][*]** to delete.

Programming option will not work.

- It is likely the keypad is not in the correct mode. Press **[#]** until the right LED turns green to put the keypad in Standby Mode. Enter Programming Mode and begin again.

Output #2 will not activate.

- Make sure that Output #2 is programmed for the correct function. (See page 13, *Programming the Output #2 Function*.)

Egress input is not working.

- Check that the egress device is wired correctly. (See page 4, *Wiring Diagram*.)

Relay output will not stop.

- Make sure that the output is not set for toggle mode. (See page 13, *Programming the Output #1 Timer and Programming the Output #2 Timer*.)

Resetting the Keypad

NOTE: Resetting the keypad will cause some or all programmed data to be lost. Do not perform either of these steps unless it is absolutely necessary.

Deleting All Users

Enter:

*** 8 8 8**

IMPORTANT: Once key entry is made, all user codes and user cards will be deleted and the keypad will return to Programming Mode. The Master Code and all other programming settings will remain the same. To restore factory settings, see *Restore Factory Settings* below.

Restore Factory Settings

Enter:

*** 8 9 9**

IMPORTANT: Once key entry is made, keypad will return to factory default settings. No users will be present and the Master Code will be **1234**. For SK-2323-SPQ and SK-1323-SPQ, Output #1 Access Mode will be set to user codes or user cards.

Manually Resetting the Master Code

If the Master Code has been forgotten or does not work, the following steps can be taken to reset the Master Code:

1. Disconnect power from the keypad.
2. Hold down the **#** key.
3. While holding the **#** key, reconnect the power.
4. After 3 seconds, the keypad will beep to confirm a successful reset.

Note: Manually resetting the Master Code will only reset the Master Code. It will not affect the Master Card, User Code, or any other saved data. To delete the Master Card, see page 12, *Deleting or Changing the Master Card*.

Note: The Master Code will reset depending on the programmed code length. These will be the new Master Codes after the code length is reset:

Code Length	New Master Code
2 digits	12
3 digits	123
4 digits	1234

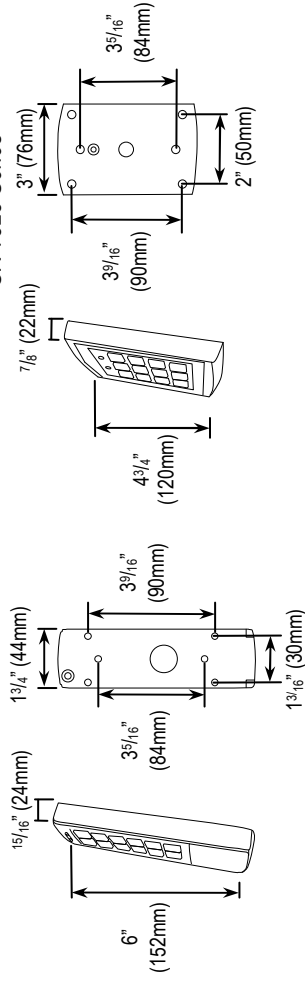
Code Length	New Master Code
5 digits	12345
6 digits	123456

Factory Defaults

Code Length	4 digits
Master Code	1234
Output #1 Access Mode*	User codes OR user cards
Output #1 User Codes	None
Output #2 User Codes	None
Output #1 Timer	1 second
Output #2 Timer	1 second
Output #2 Function	User codes
Tamper Alarm	OFF

*SK-1323-SPQ and SK-2323-SPQ only

Dimensions



Parts List

- | | | | | |
|-----------|--------------------|-------------------|----------------------|-------------------------------|
| 1x Keypad | 4x Mounting screws | 1x Security screw | 1x Mounting template | 1x Metal oxide varistor (MOV) |
| 1x Manual | 4x Screw anchors | 1x Torx wrench | 1x Diode | |

LED & Audible Indicators

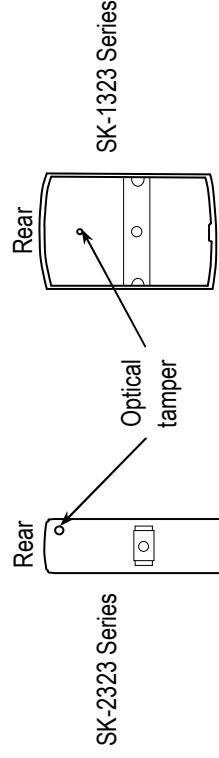
Left LED	Right LED	Keypad Status
OFF	Green	Power ON
OFF	Orange	Programming Mode
Green	Orange flashing	Waiting to program code/card* (card+code access mode)
Red	Orange flashing	Code/card* already present
Green	Green	Relay 1 activated
Red	Green	Relay 2 activated
Orange	Green	Relay 1 and 2 both activated
Orange	Orange	Restoring factory defaults
Green flashing	Green	Waiting for code/card entry* (card+code access mode)
OFF	OFF	Power OFF / Clearing user codes

Audible Tones	Keypad Status
1 Long tone	Confirmation
1 Short tone	Key press
2 Short tones	Invalid entry
3 Short tones	User code/card denied
Constant short tones	Alarm triggered
6 short + 1 long tone	All user codes deleted
No tone when key is pressed	Wrong code lockout

*Card operation with SK-2323-SPQ and SK-1323-SPQ only.

Optical Tamper

There is an optical tamper on the rear of each unit. If the sensor detects light, the tamper alarm will sound. For information on how to program the optical tamper, please see page 13, *Programming the Optical Tamper*.

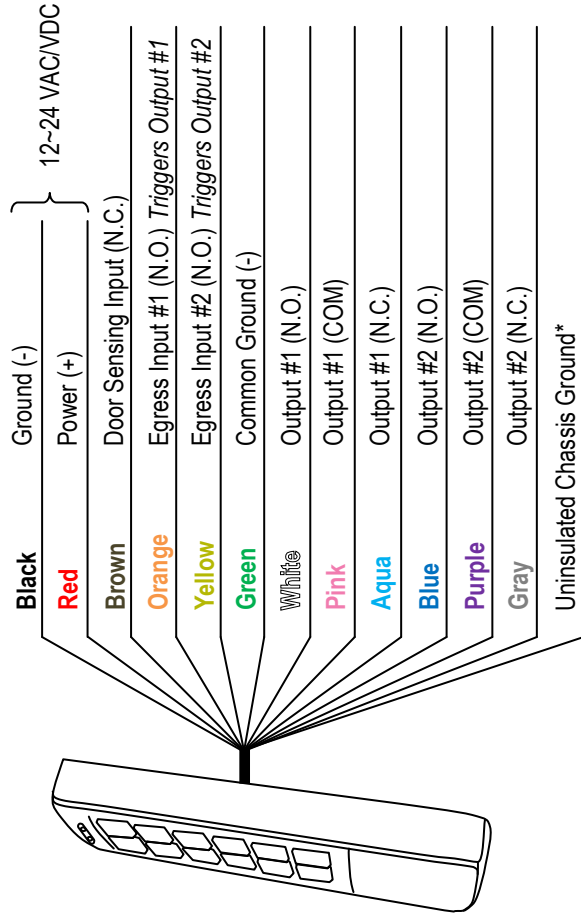


Important Notes



1. Always disconnect power before servicing the keypad.
2. The keypad must be properly grounded. Use a minimum 22AWG wire connected to the Uninsulated Chassis Ground wire. Failure to do so may damage the keypad.
3. All wiring and programming should be done by a professional installer to reduce the risk of improper installation.
4. Basic keypad functions are located on page 16 of this manual. Be sure to store this manual in a safe place for future reference.
5. If using VAC, use the Green Common Ground wire for all sensor input.

Wiring Diagram



SK-2323 series shown. Wiring is the same for both series.

***Chassis Ground:** Connect a continuous wire from the Uninsulated Chassis Ground wire to a grounding point to avoid damage from static discharge. A good grounding point could include a grounded metal conduit, a cold water pipe, or a grounding rod. Use 18AWG wire for earth ground for best results. Wire used must be at least 22AWG.

Deleting or Changing an Output #1 User

- Step 1**
Enter a user ID number.
[0] [0] [0] to [9] [9] [9]
- Step 2**
Delete existing user by entering:
[*] [*]
- Step 3**
Swipe a new user card.*
or
Enter a new user code.
[X] [X] [X] [X]
or
Return to Programming Mode by entering [F]

- This option deletes Output #1 users one at a time.
- To delete all users, see page 14, *Deleting All Users*.

Deleting or Changing an Output #2 User

- Step 1**
Enter:
[*] [4]
- Step 2**
Enter a user ID number.
[0] [0] to [0] [9]
- Step 3**
Delete existing user by entering:
[*] [*]
- Step 4**
Swipe a new user card.*
or
Enter a new user code.
[X] [X] [X] [X]
or
Return to Programming Mode by entering [F]

- This option deletes Output #2 users one at a time.
- To delete all users, see page 14, *Deleting All Users*.

Additional Programming

Programming the Output #1 Timer

- DEFAULT: 1 second**
- Step 1**
Enter:
[*] [1]
- Step 2**
For toggle mode, enter:
[0] [0] or
For timed output, enter:
[0] [1] to [9] [9]

- 01 to 99 is the number of seconds Output #1 will activate.

Programming the Output #2 Timer

- DEFAULT: 1 second**
- Step 1**
Enter:
[*] [5]
- Step 2**
For toggle mode, enter:
[0] [0] or
For timed output, enter:
[0] [1] to [9] [9]

- 01 to 99 is the number of seconds Output #2 will activate.

Programming the Output #2 Function

Output #2 can be activated via [X] or through user codes. Use the following steps to program its function.

- DEFAULT: User codes**
- Step 1**
Enter:
[*] [2]
- Step 2**
For user codes, enter:
[0] [1] or
For doorbell, enter:
[0] [2]

- When Output #2 is programmed for doorbell, press [X] to activate doorbell. Doorbell output lasts 1 second.

Programming the Optical Tamper

- DEFAULT: OFF**
- Step 1**
Enter:
[*] [6]
- Step 2**
To turn optical tamper OFF, enter:
[0] [1] or
To turn optical tamper ON, enter:
[0] [2]

*SK-2323-SPQ and SK-1323-SPQ only.

Continued from page 11.

C. User Card and Code*

1. Enter a user ID number. (0 0 0 to 9 9 9)
2. If the left LED is red, previous user data exists. Clear it by entering * . The keypad will beep in confirmation and the left LED will turn green.
3. Swipe a new user card.
4. Enter a new user code.
5. To program the next user, repeat from step 1 in section A, B, or C.
6. Exit Programming Mode by pressing #.

Programming Output #2

Each Output #2 user may only have a user code OR a user card programmed.

Note – For all of the following programming functions, the keypad must be in Programming Mode. To enter Programming Mode, enter the Master Code twice.

A. Programming an Output #2 User Code

1. Enter * 4 .
2. Enter a user ID number. (0 0 to 0 9)
3. If the left LED is red, previous user data exists. Clear it by entering * * . The keypad will beep in confirmation and the left LED will turn green.
4. Enter a new user code.
5. To program the next user, repeat from step 2 in section A or B.
6. Return to Programming Mode by pressing # .
7. Exit Programming Mode by pressing # again .

B. Programming an Output #2 User Card*

1. Enter * 4 .
2. Enter a user ID number. (0 0 to 0 9)
3. If the left LED is red, previous user data exists. Clear it by entering * * . The keypad will beep in confirmation and the left LED will turn green.
4. Swipe a new user card.
5. To program the next user, repeat from step 2 in section A or B.
6. Return to Programming Mode by pressing # .
7. Exit Programming Mode by pressing # again.

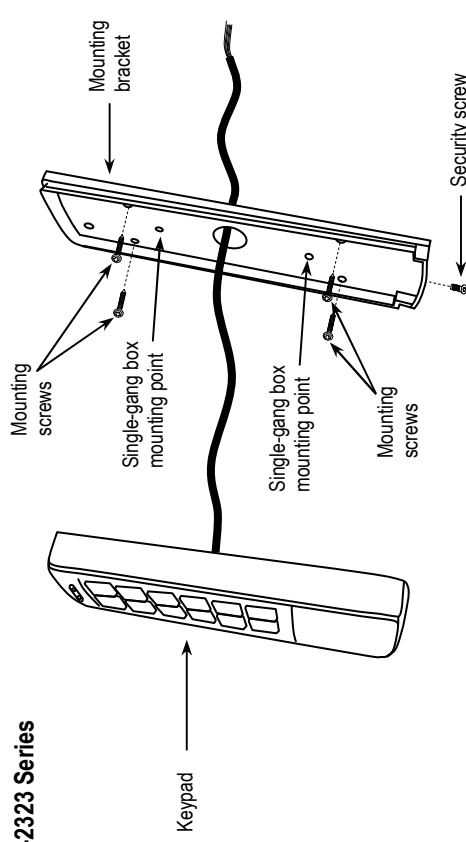
Deleting or Changing Users and Cards

Deleting or Changing the Master Card*

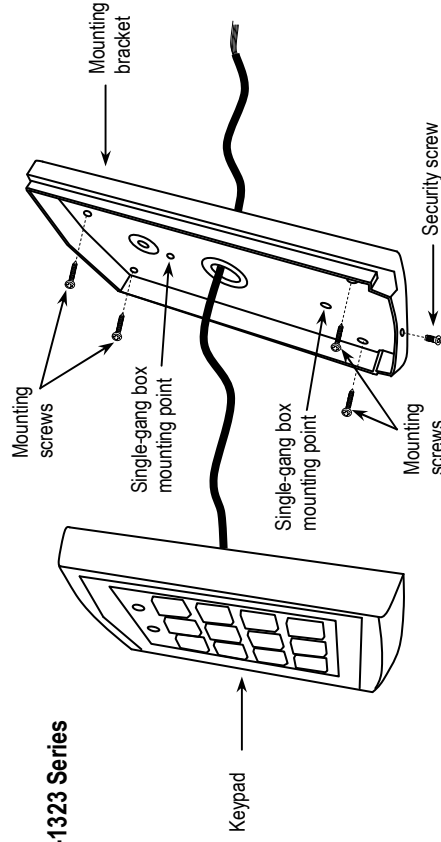
Step 1 Enter: * 7	Step 2 Delete the existing Master Card by entering: * * *	Step 3 Swipe a new Master Card.
	or	Exit Programming Mode by entering #.

Installation

SK-2323 Series



SK-1323 Series



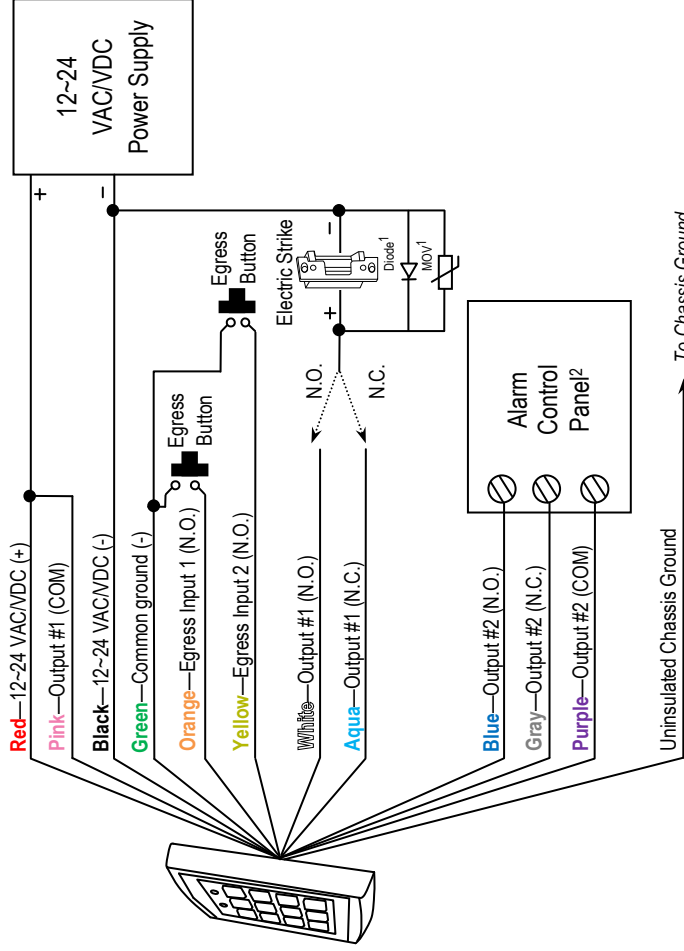
1. Find a suitable location to mount the keypad. Do not install where it will be too high or too low for most users to operate the keypad.
2. Using the included Torx wrench, unscrew the security screw located on the bottom of the keypad's mounting bracket.
3. Carefully remove the keypad from the mounting bracket.
4. Drill holes in the 4 designated mounting points located on the mounting bracket. If needed, use the included mounting template.
5. Using the 4 included mounting screws, secure the mounting bracket to a wall or other mounting surface. If mounting to brick or drywall, it may be necessary to use the included screw anchors.
6. If the installation is using surface wiring, mount the keypad to a single-gang box using the 2 single-gang box mounting points.
7. Connect each of the wires that will be used to operate the keypad according to the wiring diagram on page 4.
8. Reattach the keypad to the mounting base.
9. Use the included Torx wrench to tighten the security screw and secure the keypad to the base.

*SK-2323-SPQ and SK-1323-SPQ only.

Sample Wiring and Application

(SK-1323 series shown. All examples apply to both the SK-1323 and SK-2323 series.)
 Note: Sample applications are based on VDC power supplies.

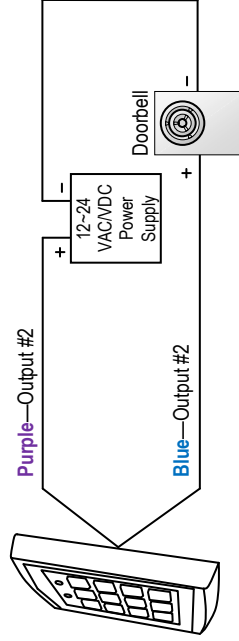
Connection to Lock Device and Alarm System Arm/Disarm Control



- 1 Connect included diode and metal oxide varistor (MOV) as close as possible and in parallel with an electric strike. This absorbs possible electromagnetic interference to prevent operation of the strike from damaging the keypad. Do not connect a diode or MOV when using electromagnetic locks.
- 2 Output #2 controls the arm/disarm of the alarm control panel. Consult the alarm control panel manual for more information.

Connecting to a Doorbell

If the keypad is connected to a doorbell, press **[*]** to activate the doorbell. The doorbell output lasts for 1 second. For instructions on how to program the keypad for doorbell, see page 13, *Programming the Output #2 Function*.



D. Program the Master Card (SK-1323-SPQ and SK-2323-SPQ only)

In addition to a Master Code, a Master Card can also be programmed. Swiping a Master Card will give direct access to Programming Mode.

1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is **1234**)
3. On the keypad, enter **[*]** **[7]**.
2. If the left LED is solid green and the right LED is flashing orange, a Master card is already programmed. Clear it by entering **[*]** **[*]**. The keypad will beep in confirmation and the left LED will start flashing green.
4. Swipe a proximity card (PR-K1S1A or similar). This card is now the Master Card.
5. Exit Programming Mode by pressing **[#]**.

E. Setting the Output #1 Access Mode*

DEFAULT: User card OR user code.

1. Enter Programming Mode by entering the Master Code twice.
2. Enter **[*]** **[0]**.
3. Enter one of the following:
 - [0]** **[0]** **User card ONLY**
 - [0]** **[1]** **Either user card OR user code (DEFAULT)**
 - [0]** **[2]** **User card AND user code**

Note: Deleting all users is recommended before changing the access mode to user card with user code. See page 14, *Deleting All Users*.

4. Exit Programming Mode by pressing **[#]**.

Programming Output #1

Each Output #1 user can be programmed to have a user code and a user card.*

Note – For all of the following programming functions, the keypad must be in Programming Mode. To enter Programming Mode, enter the Master Code twice.

A. User Code Only

1. Enter a user ID number. (**[0]** **[0]** **[0]** to **[9]** **[9]** **[9]**)
2. If the left LED is red, previous user data exists. Clear it by entering **[*]** **[*]**. The keypad will beep in confirmation and the left LED will turn green.
3. Enter a new user code.
4. To program the next user, repeat from step 1 in section A, B, or C.
5. Exit Programming Mode by pressing **[#]**.

B. User Card Only*

1. Enter a user ID number. (**[0]** **[0]** **[0]** to **[9]** **[9]** **[9]**)
2. If the left LED is red, previous user data exists. Clear it by entering **[*]** **[*]**. The keypad will beep in confirmation and the left LED will turn green.
3. Swipe a new user card.
4. Return to Programming Mode by pressing **[#]**.
5. To program the next user, repeat from step 1 in section A, B, or C.
6. Exit Programming Mode by pressing **[#]** again.

*SK-2323-SPQ and SK-1323-SPQ only.

Programming Instructions

- Codes are programmed to have 2-6 digits in length. All codes must be the same length.
- Before inputting any of the following, enter Programming Mode by entering the Master Code twice. The default Master Code is 1234.
To enter Programming Mode, enter **1** **2** **3** **4** **1** **2** **3** **4**
- To exit Programming Mode, press the **⏏** key.
- The keypad will exit Programming Mode if no keys are pressed for 30 seconds.

Programming Tips

- Program a new Master Code immediately.
- Take note of the keypad status LEDs—
 - Right LED Solid Green:** Standby Mode
 - Right LED Solid Orange:** Programming Mode
 - Left LED Solid Green / Right LED Flashing Orange:** Awaiting code/card entry
- If you are unsure of which mode the keypad is in, press **⏏** until the right LED is green. The keypad is now in the Standby Mode. Enter the master code twice to return to Programming Mode.

First Time Keypad Use

Take these steps the first time the keypad is programmed.

- Enter Programming Mode**
Enter: **1** **2** **3** **4** **1** **2** **3** **4** (Default Master Code is **1234**).
- Program Code Length**
WARNING: After a new code length is programmed, all user codes will be deleted and master code will be reset.
1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is **1234**).
2. Enter **✱** **9** **0** **4**
3. Enter the desired code length. This must be a number from 2-6.
4. Exit Programming Mode by pressing **⏏**.

Note: The Master Code will reset depending on the programmed code length. These will be the new Master Codes after the code length is reset:

Code Length	New Master Code
2 digits	12
3 digits	123
4 digits	1234

Code Length	New Master Code
5 digits	12345
6 digits	123456

C. Program the Master Code

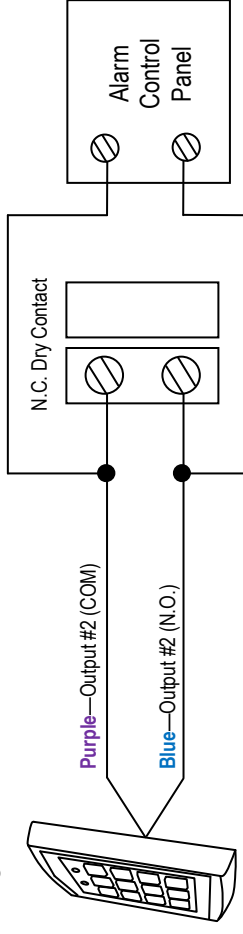
- Enter Programming Mode by entering the Master Code twice. (Default Master Code is **1234**).
- Enter **✱** **3**
- Enter the new Master Code twice. The Master Code may not be the same as a user code.
Example: If the desired new Master Code is **4321**, enter: **4** **3** **2** **1** **4** **3** **2** **1**
- Exit Programming Mode by pressing **⏏**.

*SK-2323-SPQ and SK-1323-SPQ only.

Door Sensing



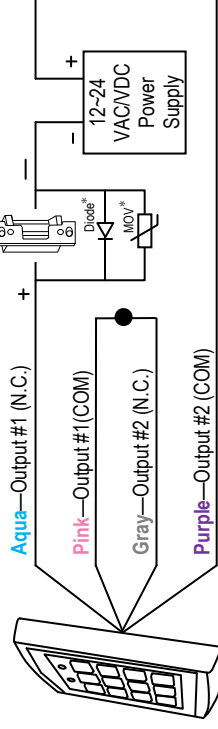
Shunting an Alarm N.C. Zone



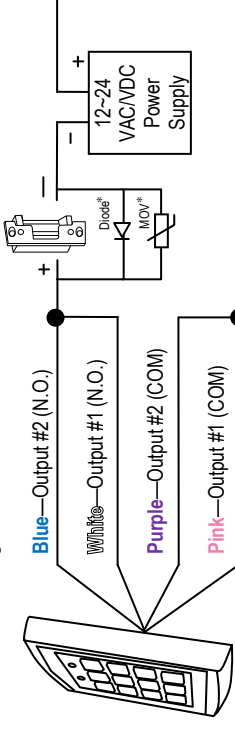
Door-Hold-Open Code

Output #1 and Output #2 can be wired together in such a way that electric lock devices remain unlocked as long as Output #2 is activated.

For N.C. Locking Devices



For N.O. Locking Devices



* Connect included diode and metal oxide varistor (MOV) as close as possible and in parallel with an electric strike. This absorbs possible electromagnetic interference to prevent operation of the strike from damaging the keypad. Do not connect diode or MOV when using electromagnetics locks.

