

## Stand-Alone / Wiegand Proximity Readers

### Installation Manual



PR-3123-PQ shown



| Model      | Voltage   | Size        |
|------------|-----------|-------------|
| PR-3123-PQ | 12~18 VDC | Mullion     |
| PR-3125-PQ |           | Single-gang |

The ENFORCER Stand-alone / Wiegand proximity reader is an advanced security solution that offers both efficiency and convenience. This versatile device can function as a stand-alone controller or a Wiegand reader. The reader's unique feature of adding multiple cards in bulk at once significantly streamlines access control management in large organizations.

- 12~18 VDC Operation
- Low current draw – 120mA max.
- Form C relay output – 2A@12VDC
- Built-in tamper alarm and external alarm output
- Outdoor rated – IP66 weatherproof
- Can serve as Wiegand output reader or controller, output and input – 26~44 bits
- EM 125kHz Proximity card reader
- 2-Door interlock
- Easy duplication of users to additional devices
- Bulk adding of multiple cards at a time

Parts List

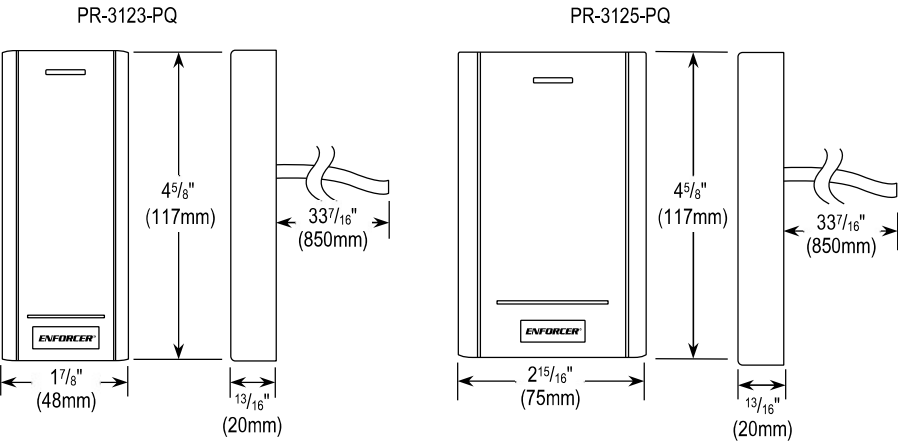
|                     |                           |                          |
|---------------------|---------------------------|--------------------------|
| 1x Proximity reader | 2x Mounting screws        | 2x Plastic screw anchors |
| 1x Master card      | 10x User proximity cards* | 1x Infrared programmer   |
| 1x Diode            | 1x Security star wrench   | 1x Manual                |

\*Additional Cards / Key fobs are sold separately (pg. 19)

Specifications

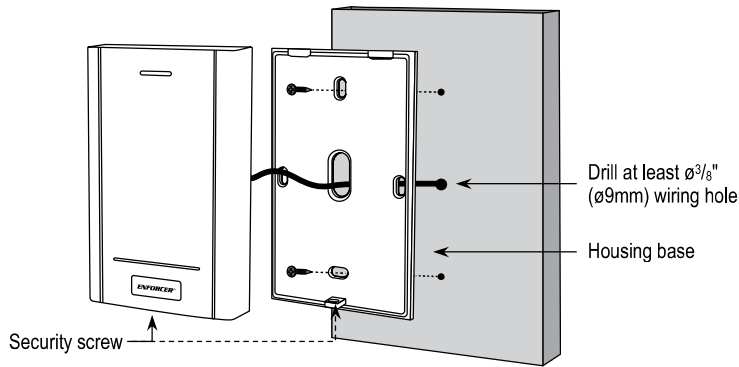
| Model                 | PR-3123-PQ                                                                                                      | PR-3125-PQ                                                                                                        |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Operating voltage     | 12~18 VDC                                                                                                       |                                                                                                                   |
| Current draw          | Standby                                                                                                         | 50mA@12VDC                                                                                                        |
|                       | Active                                                                                                          | 120mA@12VDC (max.)                                                                                                |
| Outputs               | Form C                                                                                                          | 2A@12VDC                                                                                                          |
|                       | Alarm                                                                                                           | 2A@12VDC                                                                                                          |
|                       | Wiegand                                                                                                         | 26~44 bits                                                                                                        |
| Inputs                | Wiegand                                                                                                         | 26~44 bits, PIN input – 4, 8, or 10 bits                                                                          |
|                       | Egress                                                                                                          | N.O. Ground                                                                                                       |
|                       | Door sensor                                                                                                     | N.C. Ground                                                                                                       |
| Card type             | EM125                                                                                                           |                                                                                                                   |
| Enclosure material    | Black ABS plastic                                                                                               |                                                                                                                   |
| Operating temperature | -40°~140° F (-40°~60° C)                                                                                        |                                                                                                                   |
| Operating humidity    | 0~98% non-condensing                                                                                            |                                                                                                                   |
| Dimensions            | 1 <sup>7</sup> / <sub>8</sub> "x4 <sup>5</sup> / <sub>8</sub> "x1 <sup>3</sup> / <sub>16</sub> " (48x117x20 mm) | 2 <sup>15</sup> / <sub>16</sub> "x4 <sup>5</sup> / <sub>8</sub> "x1 <sup>3</sup> / <sub>16</sub> " (75x117x20 mm) |
| Weight                | 5-oz (140g)                                                                                                     | 7-oz (200g)                                                                                                       |

Overview



## Mounting Diagram

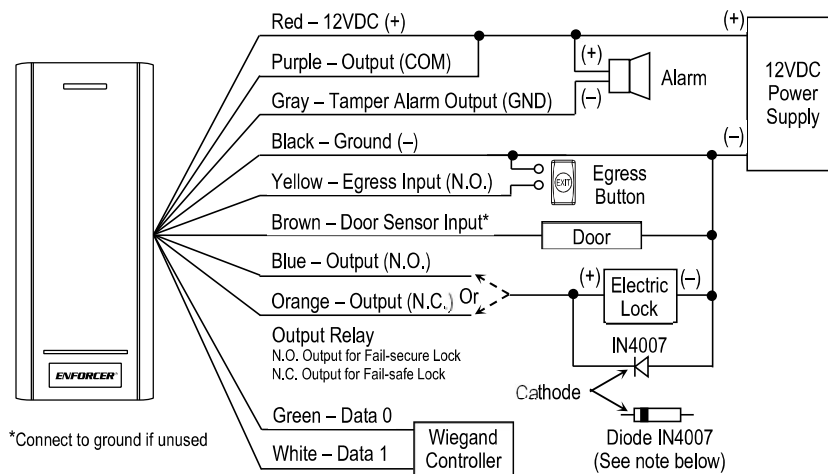
PR-3125-PQ shown, PR-3123-PQ is similar in layout



## Quick Install Guide

For experienced installers looking to do a basic installation and programming of the reader, but for in-depth installation and programming instructions, see *Table of Contents* on pg. 5

## Quick Wiring Guide



**NOTE:** To protect the relay, you must install the enclosed diode—with the cathode (striped end — ) toward the positive side—for DC powered locks **OR** install the varistor (MOV, not supplied)  for AC powered locks and for electromagnetic locks **unless your lock has a diode/MOV built in** (all SECO-LARM electromagnetic locks have built-in protection). Do not install both diode and MOV. Failure to use these as directed will void the warranty.

## Quick Install Guide (Continued)

### Programming Tips

- All programming is done using the included infrared programmer or Master card.
- Master programming code (6 digits) should be programmed before any other programming.
- A steady red LED indicates that the reader is powered on and ready. The LED will change to flashing red and a single beep will sound to indicate the device has entered programming mode.
- **Do not disconnect the reader from power while in programming mode.** Doing so may cause a memory error.
- Note that, in programming instructions, programming entry actions or options other than specific keystrokes are enclosed within the parentheses, while factory defaults are enclosed within square brackets.

### Quick Programming Instructions

Follow the instructions below if the following covers your needs:

- Programming a new master code
- Programming a user card to the first available ID
- Set the output time

1. Enter base programming mode: [\*] [1][2][3][4][5][6] [#]

**NOTE:** [1][2][3][4][5][6] this is the factory default master programming code.

2. Set the new master programming code (6 digits):

[0] (the new master code) [#] (repeat the new master code) [#]

**NOTE:** The master code must be 6 digits and not the same as any code.

3. Set a user card to operate the output (unlock the door): [1] (read card) [#]

**NOTE:** Cards can be added repeatedly in succession.

4. Set the output time (skip this step if the default value of 5 seconds is acceptable): [3] (1~99) [#]

**NOTE:** The delay time is 1~99 seconds

5. Exit programming mode: [\*]

**NOTE:** One short beep indicates that the reader has exited programming mode.



## Table of Contents

|                                                  |          |                                                         |           |
|--------------------------------------------------|----------|---------------------------------------------------------|-----------|
| <b>Parts List .....</b>                          | <b>2</b> | <b>Adding a Visitor User.....</b>                       | <b>11</b> |
| <b>Specifications .....</b>                      | <b>2</b> | <b>Deleting Users .....</b>                             | <b>11</b> |
| <b>Overview.....</b>                             | <b>2</b> | <b>Adding/Deleting Users with the Master Card .....</b> | <b>12</b> |
| <b>Mounting Diagram .....</b>                    | <b>3</b> | Add Card/PIN User.....                                  | 12        |
| <b>Quick Install Guide.....</b>                  | <b>3</b> | Delete Card/PIN User.....                               | 12        |
| Quick Wiring Guide.....                          | 3        | <b>Programming the Output Mode and Duration ....</b>    | <b>12</b> |
| Programming Tips .....                           | 4        | <b>Programming Notification Sounds and LED .....</b>    | <b>12</b> |
| Quick Programming Instructions .....             | 4        | <b>Programming the External Alarm Output .....</b>      | <b>13</b> |
| <b>Important Notes .....</b>                     | <b>5</b> | <b>Programming Wrong Card/PIN Lockout/Alarm ..</b>      | <b>13</b> |
| <b>LED Indicators and Device Sounds.....</b>     | <b>6</b> | <b>Door-Left-Open Warning .....</b>                     | <b>14</b> |
| <b>Wiring Chart.....</b>                         | <b>6</b> | <b>Programming Door-Forced-Open Alarm.....</b>          | <b>14</b> |
| <b>Installation.....</b>                         | <b>6</b> | <b>Card Collection Mode .....</b>                       | <b>14</b> |
| <b>Programming Functions and Defaults .....</b>  | <b>7</b> | <b>Setting Up a Two-Door Interlock System with</b>      |           |
| <b>Initial Programming Steps.....</b>            | <b>7</b> | <b>Two Readers.....</b>                                 | <b>15</b> |
| Programming Tips .....                           | 7        | Two-Door Interlock System Wiring Diagram .....          | 15        |
| Enter and Exit Base Programming Mode .....       | 8        | Programming the Interlock System .....                  | 15        |
| Programming the Master Code .....                | 8        | <b>Duplicating Users to Another Reader .....</b>        | <b>16</b> |
| Setting the Reader Operation Mode.....           | 8        | <b>Setting up the Wiegand Controller Mode.....</b>      | <b>17</b> |
| Programming the Access Mode .....                | 8        | Wiegand Controller Mode Wiring Diagram.....             | 17        |
| <b>Adding Users .....</b>                        | <b>9</b> | Wiegand Input Format.....                               | 17        |
| User Types, ID Numbers, PIN Codes .....          | 9        | PIN Input Bits .....                                    | 17        |
| Adding a Card User.....                          | 9        | <b>Setting Up the Wiegand Reader Mode .....</b>         | <b>18</b> |
| Adding a PIN User.....                           | 9        | Wiegand Output Bits / Format .....                      | 18        |
| Adding a Card + PIN User .....                   | 10       | <b>Resetting the Reader to Factory Default.....</b>     | <b>19</b> |
| Changing the PIN Number for Card + PIN Users ... | 10       | <b>User Operation of the Reader .....</b>               | <b>19</b> |
| Adding Duress Users.....                         | 10       | <b>Accessories .....</b>                                | <b>19</b> |
| Adding a Super User .....                        | 11       | <b>Troubleshooting and Warnings!.....</b>               | <b>20</b> |

## Important Notes



**IF USING THE READER WITH A MECHANICALLY OPERATED DOOR OR GATE, MOUNT THE UNIT AT LEAST 15' (5m) FROM THE DOOR OR GATE TO PREVENT USERS FROM BEING CRUSHED OR PINNED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.**



1. Always disconnect the power before servicing the reader. Do not apply power until all connection wiring is completed.
2. The reader must be properly grounded. Use a minimum 22AWG wire connected to the common ground wire. Failure to do so may damage the unit.
3. All wiring and programming should be done by a professional installer to reduce the risk of improper installation.
4. The user's operating guide for this reader is located on pg. 19 of this manual. Be sure to store this manual in a safe place for future reference.

## LED Indicators and Device Sounds

| Status                       | Sounds         | LED                  |
|------------------------------|----------------|----------------------|
| Power on in standby mode     | –              | Red steady           |
| In base programming mode     | 1 Beep         | Red flashing         |
| In function programming mode | 1 Beep         | Orange steady        |
| Exit programming mode        | 1 Beep         | Red steady           |
| Successful operation         | 1 Beep         | Green flash once     |
| Unsuccessful operation       | 3 Beep         | Red flashes 3 times  |
| Built-in alarm               | Rapid beeping* | Red flashing rapidly |

\*De-activate the built-in alarm by entering a valid master or user credential (card or PIN).

## Wiring Chart

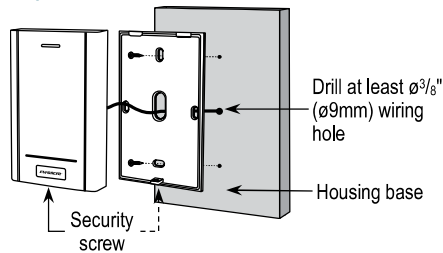
| Color  | Function     | Description                                                                    |
|--------|--------------|--------------------------------------------------------------------------------|
| Red    | Power (+)    | Connect to +12VDC power supply                                                 |
| Black  | Ground (-)   | Connect to Ground                                                              |
| Yellow | Egress Input | N.O. Pushbutton contact to the ground. Press the button to activate the output |
| Brown  | Door Sensor  | Connect to a magnetic contact or door sensor (connect to the ground if unused) |
| Blue   | Output N.O.  | NO/NC/COM, relay output, max. 2A@12VDC                                         |
| Purple | Output COM   |                                                                                |
| Orange | Output N.C.  |                                                                                |
| Gray   | Alarm Output | Transistor ground output, max. 2A@12VDC                                        |
| Green  | Data 0       | Wiegand controller                                                             |
| White  | Data 1       | Wiegand controller                                                             |

**NOTE:** To protect the relay, you must install the enclosed diode—with the cathode (striped end —|—) toward the positive side—for DC-powered locks **OR** a varistor (MOV, not supplied) ➡ for AC-powered locks and for electromagnetic locks **unless** your lock has a diode/MOV built in (all SECO-LARM electromagnetic locks have built-in protection). Do not install both diode and MOV. Failure to use these as directed will void the warranty.

## Installation

1. Find a suitable location at a height convenient to most users.
2. Remove the security screw from the bottom of the device.
3. Insert a small screwdriver or other flat object into the slot at the top rear of the reader and gently pry the reader from the base.
4. Using the housing base as a template, mark the holes needed for the wiring and mounting screws and drill the needed holes (Fig. 1). Ensure that the wiring hole is large enough to allow the wiring to be pushed in without crimping.

Fig. 1



## Installation (Continued)

5. Run the wiring through the wall to the wiring hole in the wall and carefully push the wires through the hole in the wall and through the hole in the base.
6. Install the base using the included mounting screws and mounting screw anchors (if necessary). Ensure the correct orientation as shown in Fig. 1 on pg. 6.
7. Connect all wires according to the *Wiring Chart* on pg. 6.
8. Reattach the reader to the base pressing until you hear a click securing the reader to the base.
9. Reinstall the security screw to secure the installation.

## Programming Functions and Defaults

| Function Code | Description               | Basic Formula                       | Default Values               | Pg. #     |
|---------------|---------------------------|-------------------------------------|------------------------------|-----------|
| 0             | Master code               | 0 (master code) # (master code) #   | [123456]                     | 8         |
| 1             | Add users (all types)*    | 1 (user card / PIN) #               | N/A                          | 9~11      |
| 2             | Delete users (all types)* | 2 (user card / PIN) #               | N/A                          | 11        |
| 3             | Output mode/duration      | 3 (1~99) #                          | [5] Momentary, 5 seconds     | 12        |
| 4             | Access mode               | 4 (0~3) # OR 4 3 (2~9) <sup>†</sup> | [3] Card or PIN              | 8         |
| 5             | External alarm/duration   | 5 (0~3) #                           | [1] On, 1 minute             | 13        |
| 6             | Wrong-card/PIN lockout    | 6 (0~2) #                           | [0] Disabled                 | 13        |
| 6             | Door-forced-open alarm    | 6 (3~4) #                           | [3] Disabled                 | 14        |
| 7             | Sounds                    | 7 (0 or 1) #                        | [1] ON                       | 12        |
| 7             | LED                       | 7 (2 or 3) #                        | [3] ON                       | 12        |
| 7             | Operation mode            | 7 (7 or 8) #                        | [7] Stand-alone / controller | 8         |
| 8             | Wiegand format            | 8 (26~44) #                         | [26]                         | 17~<br>18 |
| 8             | Wiegand input bits        | 8 (4 or 8 or 10) #                  | [4]                          |           |
| 8             | Wiegand parity bit        | 8 (0 or 1) #                        | [1] Enabled                  |           |
| 9             | Two-door interlock        | 9 (0 or 1) #                        | [0] Disabled                 | 15        |
| 9             | Duplicate data            | 9 8 #                               | N/A                          | 16        |
| 9             | Card collection mode      | 9 (2 or 3) #                        | [2] Disabled                 | 14        |

\*See also pg. 12, pg. 14.    <sup>†</sup>The second option is for multi-users.

## Initial Programming Steps

### Programming Tips

- All programming is done using the included infrared programmer or the Master card.
- Master programming code (6 digits) should be programmed before any other programming.
- A steady red LED indicates that the reader is powered on and ready. The LED will change to flashing red and a single beep will sound to indicate the device has entered programming mode.
- **Do not disconnect the reader from power while in programming mode.** Doing so may cause a memory error.
- Note that, in programming instructions, programming entry actions or options other than specific keystrokes are enclosed within the parentheses, while factory defaults are enclosed within square brackets.

## Initial Programming Steps (Continued)

### Enter and Exit Base Programming Mode

Enter programming mode: [\*] (master code) [#]

**NOTE:** The factory default master code is 123456.

### Programming the Master Code

1. Enter programming mode: [\*] (master code) [#]

**NOTE:** The master code factory default is 123456.

2. Set the new master code: [0] (new master code) [#] (repeat the new master code) [#]

**NOTE:** The master code must be 6 digits.

3. Exit programming mode: [\*]

### Setting the Reader Operation Mode

1. Enter programming mode: [\*] (master code) [#]

2. Standalone/Controller mode: [7][7][#] [default]

**OR**

Wiegand Reader mode: [7][8][#]

3. Exit programming mode: [\*]

### Programming the Access Mode

1. Enter programming mode: [\*] (master code) [#]

2. Card Access: [4][0][#]

**OR**

Pin Access: [4][1][#] **NOTE:** PIN access requires use of the infrared programmer.

**OR**

Card + PIN access: [4][2][#] **NOTE:** see pg. 10 for details.

**OR**

Card or PIN access: [4][3][#] [default]

**OR**

Multi-User access: [4][3] (2~9) [#]

#### NOTES

- Where 2~9 is the number of users required in order to gain access.
- In multi-user mode, the elapsed time between each user input must not exceed 5 seconds, otherwise the device will return to standby, and the process must start again.

3. Exit programming mode: [\*]

## Adding Users

### User Types, ID Numbers, PIN Codes

| User Type       | ID Numbers Available |
|-----------------|----------------------|
| User ID         | 0~986                |
| Super user ID   | 987                  |
| Duress user ID  | 988~989              |
| Visitor user ID | 990~999              |

Users are also assigned a PIN of 4~6 digits (Except 8888, which may not be used).

**IMPORTANT:** It is important to record each user's **card #** (recommended if available) **or user ID** as one of those will be necessary to modify or delete the card should it be lost.

### Adding a Card User

1. Enter programming mode: [\*] (master code) [#]

2. There are several options for adding cards.

a. Add card using Auto ID: [1] (read card) [#]

**NOTE:** Additional cards can be added in succession.

**OR**

b. Add card using specific ID: [1] (user ID) [#] (read card) [#]

**NOTE:** User ID, any number 0~986

**OR**

c. Add card by card number: [1] (8 or 10 digit card number) [#]

**OR**

d. Add card by block adding: [1] (user ID) [#] (card quantity) [#] (the 1<sup>st</sup> card's number) [#]

#### NOTES:

- Use any option except *b* or *d* above with caution if you want to record user IDs, since cards will be assigned the next available user ID.
- It may take up to 2 minutes to program using block add method (*d*).
- When using ENFORCER proximity cards, use the 8-digit number when adding user cards by card number (*c*) or block adding (*d*).

3. Exit programming mode: [\*]

### Adding a PIN User

1. Enter programming mode: [\*] (master code) [#]

2. Add PIN using Auto ID: [1] (PIN) [#]

**NOTE:** PIN: 4~6 digits. Not recommended if you want to record user IDs since PINs will be assigned the next available user ID. Additional PINs can be added in succession.

3. Add PIN using specific ID: [1] (user ID) [#] (PIN) [#] **NOTE:** user ID: any number 0~986

4. Exit programming mode: [\*]

**NOTE:** PIN users must use infrared programmer.

## Adding Users (Continued)

### Adding a Card + PIN User

This option requires that you have already chosen the "card + PIN access" option as the access mode earlier (See *Programming the Access Mode*, pg. 8) and all users must use the same mode.

**NOTE:** During this programming, all cards will be assigned the same PIN [default: 8888]. The PIN for any card can be changed later as will be shown below

1. Enter programming mode: [\*] (master code) [#]

2. Add card: [1] (read card) [#]

OR

[1] (user ID) [#] (read card) [#] **NOTE:** User ID: 0~986

3. Exit programming mode: [\*]

### Changing the PIN Number for Card + PIN Users

To change a PIN number for Card + PIN users, be sure you are **not** in programming mode.

[\*] (read card) (old PIN) [#] (new PIN) [#] (repeat new PIN) [#] [factory default old PIN: 8888]

OR

[\*] (User ID) (old PIN) [#] (new PIN) [#] (repeat new PIN) [#] [factory default old PIN: 8888]

### Adding Duress Users

A Duress user ID (limited to 988 and 989) will unlock the door but also trigger an external alarm connected to the gray wire.

#### NOTES:

- The alarm will continue for the duration of the set alarm time (see *Programming the External Alarm Output*, pg. 13) and cannot be silenced before the time is up.
- There will be no warning sound or other indication on the reader.

1. Enter programming mode: [\*] (master code) [#]

2. Add card: [1] (988 or 989) [#] (8 or 10-digit card number or read card) [#]

**NOTE:** When entering ENFORCER proximity card numbers, use the 8-digit number.

OR

Add PIN: [1] (988 or 989) [#] (PIN) [#] **NOTE:** PIN: 4~6 digits

3. Exit programming mode: [\*]

## Adding Users (Continued)

### Adding a Super User

When the Super User (ID limited to 987) card/PIN is used, this will unlock the door and momentarily deactivate the reader for all other users. The Super User card/PIN must be entered again to restore the functionality of other users.

1. Enter programming mode: [\*] (master code) [#]
2. Add card: [1] [9] [8] [7] [#] (8 or 10-digit card number or read card) [#]  
**NOTE:** When entering ENFORCER proximity card numbers, use the 8-digit number.  
**OR**  
 Add PIN: [1] [9] [8] [7] [#] (PIN) [#] **NOTE:** PIN: 4~6 digits
3. Exit programming mode: [\*]

### Adding a Visitor User

Visitor Users (IDs limited to 990~999) are allowed temporary access from 1~10 times.

1. Enter programming mode: [\*] (master code) [#]
2. Add Card: [1] (990~999) [#] (0~9) [#] (8 or 10-digit card number or read card) [#]  
**NOTE:** When entering ENFORCER proximity card numbers, use the 8-digit number.  
**OR**  
 Add PIN: [1] (990~999) [#] (0~9) [#] (PIN) [#] **NOTE:** PIN: 4~6 digits  
**NOTE:** The 0~9 above represents the number of times allowed and 0 represents 10 times.
3. Exit programming mode: [\*]

## Deleting Users

1. Enter programming mode: [\*] (master code) [#]
2. Delete by User ID: [2] (user ID) [#]  
**OR**  
 Delete by Card: [2] (read card) [#]  
**OR**  
 Delete by Card Number: [2] (8 or 10-digit card number) [#]  
**OR**  
 Delete by PIN: [2] (PIN) [#]  
**OR**  
 Delete all users: [2] (master code) [#]
3. Exit programming mode: [\*]



## Adding/Deleting Users with the Master Card

The Master Card offers another way to add or delete users without the master code. Not recommended if you are recording user IDs since users will be assigned the next available ID.

### Add Card/PIN User

1. Scan master card.
2. Scan user card  
**OR:**  
(PIN)
3. Repeat step 2 for additional users.
4. Scan master card again to complete.

### Delete Card/PIN User

1. Scan master card twice within 5 seconds.
2. Scan user card  
**OR:**  
(PIN)
3. Repeat step 2 for additional users.
4. Scan master card again to complete.

---

## Programming the Output Mode and Duration

1. Enter programming mode: \*# (master code) #
2. Momentary output mode: 3# (1~99) # **NOTE:** Duration is 1~99 seconds [default: 5 seconds].  
**OR**  
Toggle mode: 30#
3. Exit programming mode: \*

---

## Programming Notification Sounds and LED

1. Enter programming mode: \*# (master code) #
2. Sound OFF: 70#  
**OR**  
Sound ON: 71# [default]  
**NOTE:** Notification sounds refer only to the reader's sounds (including card entry, door-left-open, wrong-code) and not the external alarm.
3. LED OFF: 72#  
**OR**  
LED ON: 73# [default]
4. Exit programming mode: \*



## Programming the External Alarm Output

When the reader is programmed in stand-alone mode, the external alarm is triggered by the *tamper* alarm, *duress* alarm, and, if enabled, by the *wrong-card* alarm, *door-left-open* alarm, and *door-forced-open* alarm.

1. Enter programming mode: [\*] (master code) [#]

2. OFF: [5][0][#]

OR

3. ON and set duration: [5] (1~3) [#] **NOTE:** Where 1~3 is minutes, duration [default: ON, 1 min]

**NOTE:** When the alarm is triggered, it can be disabled by any of the following:

- (Master code) [#]
- Scanning the master card
- Scanning any valid user card
- Entering any valid user PIN

---

## Programming Wrong Card/PIN Lockout/Alarm

This setting tells the reader what to do after 10 failed card/PIN attempts. [Default OFF]

1. Enter programming mode: [\*] (master code) [#]

2. Lockout OFF: [6][0][#] [default]

OR

Lockout ON: [6][1][#]

**NOTE:** This locks the reader for 10 minutes when triggered and cannot be disabled for the duration.

OR

Lockout ON with Alarm: [6][2][#]

**NOTE:** The alarm duration will follow the global alarm settings, duration [default: 1 min].

However, if the global settings are set to OFF (i.e. duration: 0), those settings will override this and the alarm will not sound (see *Programming the External Alarm Output*, pg. 13)

3. Exit programming mode: [\*]

## Door-Left-Open Warning

If used with a magnetic contact (not included) on the door or with a lock with a built-in sensor, and the door is left open longer than 1 minute, the reader's internal notification (if enabled, see *Programming Notification Sounds and LED*, pg. 12) will sound and the external alarm according to its settings (see *Programming the External Alarm Output*, pg. 13) as a reminder.

To stop the notification, either close the door, enter the master code, swipe a master card, or other valid user card/PIN.

## Programming Door-Forced-Open Alarm

This feature requires a magnetic contact (not included) or a lock with a built-in sensor connected to the brown wire.

1. Enter programming mode: [\*] (master code) [#]

Disable: [6][3][#] [default]

OR

Enable: [6][4][#]

**NOTE:** The alarm duration follows the overall setting (see *Programming the External Alarm Output*, pg. 13).

2. Exit programming mode: [\*]

## Card Collection Mode

This could be convenient if you want to pass out cards to your staff as they enter for the day. As they swipe their card, not only would the door unlock, their card would be assigned the next available User ID. It is important that each card # is recorded with its owner in case the card is lost. This option is *not* recommended if it is necessary to record user IDs since it would be impossible to know what ID is being assigned to each user/card (see note under *Adding Users*, pg. 9).

1. Enter programming mode: [\*] (master code) [#]

2. Disable: [9][2][#] [default]

OR

Enable: [9][3][#]

3. Exit program mode: [\*]



## IMPORTANT WARNING

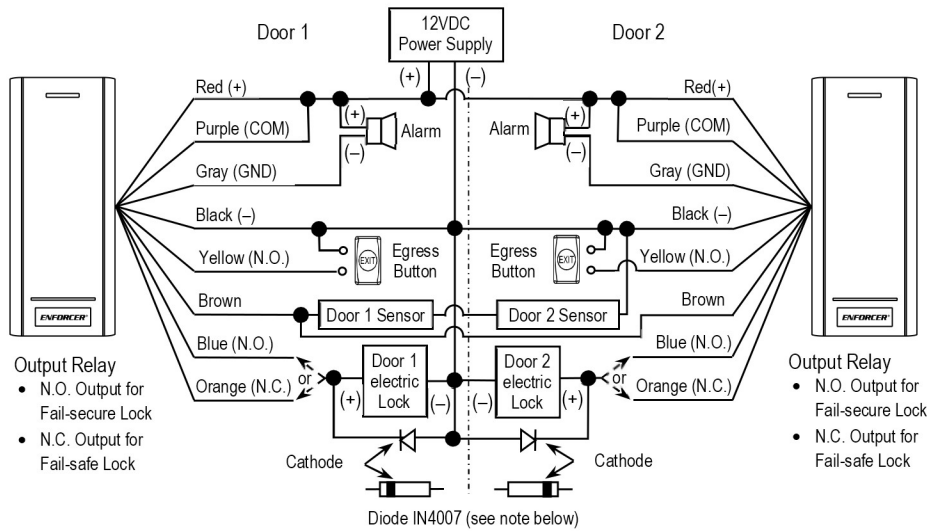


- While *Card Collection Mode* is enabled, **any card** will trigger the relay and will be entered into the system as a user.
- Therefore, **it is crucial to remember to disable this mode after initial programming is completed.**

## Setting Up a Two-Door Interlock System with Two Readers

In this application, two of the same series of readers are each connected to separate door locks and egress pushbuttons. While one door is open, the other cannot be opened.

### Two-Door Interlock System Wiring Diagram



**NOTE:** To protect the relay, you must install the enclosed diode—with the cathode (striped end —|—) toward the positive side—for DC powered locks **OR** install a varistor (MOV, not supplied) —|— for AC powered locks and for electromagnetic locks **unless your lock has a diode/MOV built in** (all SECO-LARM electromagnetic locks have built-in protection). Do not install both diode and MOV. Failure to use these as directed will void the warranty.

### Programming the Interlock System

- Enter programming mode: [\*] (master code) [#]  
 Disable: [9][0][#] [default]  
**OR**  
 Enable: [9][1][#]
- Exit programming mode: [\*]

**NOTE:** While you may wish to do so for convenience, it is not necessary for the two readers to have the same master codes.

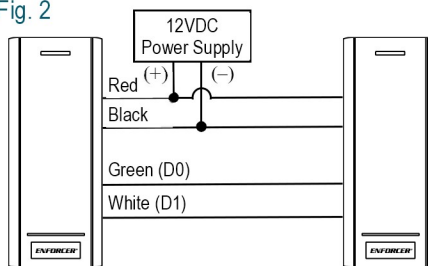
## Duplicating Users to Another Reader

User data can be duplicated from one reader to another reader that supports this function. All user data will be transferred to the second unit (taking about 3 minutes for 1,000 users), overwriting any existing user data.

Connect the readers in parallel as shown in Fig. 2, all wires to the same corresponding color.

Make sure that both readers have the same master programming code. To transfer user data, use the following general formula on the main reader containing the user data.

Fig. 2



1. Enter programming mode: [\*] (master code) [#]

2. Set transferring: [9][8][#]

Within 30 seconds the LED turns green. When the transfer is complete 1 beep will sound and the LED will turn red.

3. Exit programming mode: [\*]

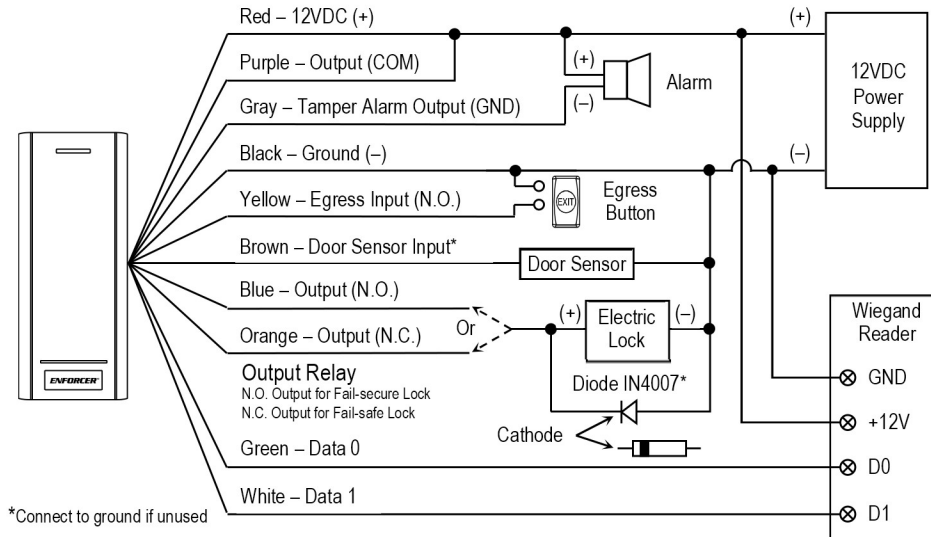
### NOTES:

- Both readers must support the data transfer function and have the same master programming code.
- Any user data existing on the second device will be overwritten.

## Setting up the Wiegand Controller Mode

The reader can work as a controller connected to a Wiegand reader.

### Wiegand Controller Mode Wiring Diagram



**NOTE:** To protect the relay, you must install the enclosed diode—with the cathode (striped end) toward the positive side—for DC powered locks **OR** install a varistor (MOV, not supplied) for AC powered locks and for electromagnetic locks **unless** your lock has a diode/MOV built in (all SECO-LARM electromagnetic locks have protection built-in). Do not install both diode and MOV. Failure to use as directed will void the warranty.

### Wiegand Input Format

1. Enter programming mode: [\*] (#)
2. Set input format: [8] (26~44) [#] [default: 26]
3. Disable parity bit: [8][0][#]

OR

- Enable parity bit: [8][1][#] [default]
4. Exit programming mode: [\*]

### PIN Input Bits

1. Enter programming mode: [\*] (#)
2. Set PIN input bits: [8] (4 or 8 or 10) [#] [default: 4 bits]
3. Exit programming mode: [\*]

**NOTE:** Basic programming is the same as in the stand-alone mode.

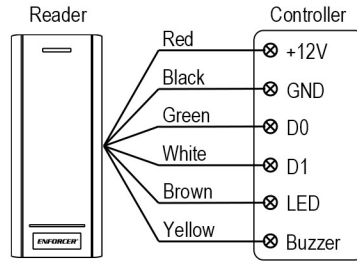
## Setting Up the Wiegand Reader Mode

The reader can work as a standard Wiegand reader with a controller. Be sure to set the reader operation mode to Wiegand reader mode.

Fig. 3

1. Enter programming mode: [\*] (master code) [#]
2. Wiegand reader mode: [7][8][#]
3. Exit programming mode: [\*]

Connect the reader and controller as in the diagram in Fig. 3.



### NOTES:

- Nearly all settings in controller mode will be invalid.
- The brown wire will be redefined to control the LED. When its voltage is low, the LED will become green.
- The yellow wire will be redefined to control the internal buzzer. When its voltage is low, the buzzer will sound.

## Wiegand Output Bits / Format

Set the Wiegand output bits/format according to the input format of the controller.

1. Enter programming mode: [\*] (master code) [#]
2. Set output format: [8] (26~44) [#] [default: 26]
3. Disable parity bits: [8][0]

### OR

Enable parity bits: [8][1][#] [default]

4. Exit programming mode: [\*]

## Resetting the Reader to Factory Default

When resetting to factory default, user information is retained. You may also program a new Master Card if it is lost. To reset the reader to factory default settings, follow steps 1~4 below.

1. Power off the reader.
2. Hold down the egress (Request-to-Exit, RTE) button and power the reader on, continuing to hold down the egress button until you hear 2 beeps and the LED turns orange.

**NOTE:** If no egress button is installed, use a small jumper wire to momentarily connect the yellow and black wires.

3. Release the egress button.
4. If you only need to reset the reader to factory default, wait until the LED changes to red (about 30 seconds) indicating that the reset has completed successfully.
5. If you need to program a new Master Card, within 30 seconds, read the new card. The LED will change to red indicating that the reset has completed successfully.

---

## User Operation of the Reader

- Present the valid proximity card to activate the relay.
- You should hear 1 beep (if sounds are enabled) and the status LED should turn green to indicate that the user card is accepted, and the door is unlocked.
- Present the proximity card to silence an alarm (except for duress alarms).

---

## Accessories

### Proximity Key fobs



PR-K1K1-AQ

### Proximity Cards



PR-K1S1-A



Troubleshooting and Warnings!

|                                                 |                                                                                                                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit fails to accept a new user/duress card     | <ul style="list-style-type: none"><li>• Ensure the User ID assigned is between 0 and 986 for users</li><li>• Ensure the user card is not already assigned to another user</li></ul>                                         |
| Unit fails to respond to a programmed user card | <ul style="list-style-type: none"><li>• Ensure the unit is in standby mode by pressing the  key until the LED becomes steady red</li></ul> |

 **WARNING!**

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**.
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- The compatible battery type: CR2025
- Nominal battery voltage: 3VDC
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 158° F (70° C), or incinerate. Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

**FCC COMPLIANCE STATEMENT** **FCC ID: K4EPR3125PQ**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**IMPORTANT NOTE:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

**IMPORTANT WARNING:** For a weather-resistant installation, ensure that the unit is installed in a waterproof back box, and that the faceplate and faceplate screws are properly sealed. Incorrect mounting may lead to exposure to rain or moisture inside which could cause a dangerous electric shock, damage the device, and void the warranty. Users and installers are responsible for ensuring that this product is properly installed and sealed.

**IMPORTANT:** Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

**California Proposition 65 Warning:** These products may contain chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**WARRANTY:** This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

**NOTICE:** The SECO-LARM policy is one of continual development and improvement. For that reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints. All trademarks are the property of SECO-LARM U.S.A., Inc. or their respective owners. Copyright © 2024 SECO-LARM U.S.A., Inc. All rights reserved.

**SECO-LARM® U.S.A., Inc.**

16842 Millikan Avenue, Irvine, CA 92606      Website: [www.seco-larm.com](http://www.seco-larm.com)  
Phone: (949) 261-2999 | (800) 662-0800      Email: [sales@seco-larm.com](mailto:sales@seco-larm.com)



MI\_PR-312x-PQ\_240808.docx