ENFORCER®

PR-112S-A

Proximity Card Reader

Manual



- Stand-alone operation
- Sealed and weatherproof (IP67)
- Tri-color LED status bar
- Up to 100 user cards
- Up to 5 master cards
- 10 Cards included

SECO-LARM®

Note: Products with model numbers that end with "Q" or that have a round green "Q" sticker are RoHS compliant.

Table of Contents:

Introduction 2
Specifications 2
Parts List 2
Features 3
Dimensions 3
Installation Instructions 4
Wire Coding 4
Sample Installation 4
Mounting Diagram 5
Getting Started 5
Programming 6-8
Operating Instructions 9
System Reset 10
User List 11
Troubleshooting 12

Introduction:

The ENFORCER PR-112S-A Proximity Card Reader provides a flexible solution for securing controlled access. The stylish case and small size make it ideal for use in most residential, commercial, and industrial sites. The wave-shaped LED status bar accents the case design. Simple installation, quick programming, high reliability, and attractive design are all combined in the PR-112S-A.

Specifications:

Power input	12VDC
Current draw	Standby: 80mA@12VDC Active: 200mA@12VDC
Max. read distance	6" (15cm)
User card limit	100 cards
Master card limit	5 cards
Transmit frequency	125kHz
Outputs	1 relay (NO/NC/COM)
Contact rating	1A@30V
Relay time delay	1~180 secs/ Toggle mode
Temperature	-4°~158° F (-20°~70° C)
Enclosure rating	IP67
Dimensions	3 3/4"x1 3/4"x 3/4" (95x44x19mm)

Parts List:

1x Proximity card reader

10x Proximity cards
(1 Pre-programmed master card; 9 blank cards)

1x Manual

Additional Accessories Available from SECO-LARM®:

PR-K1K1-AQ

Proximity key fobs
(sold in packs of 10)



PR-K1S1-A

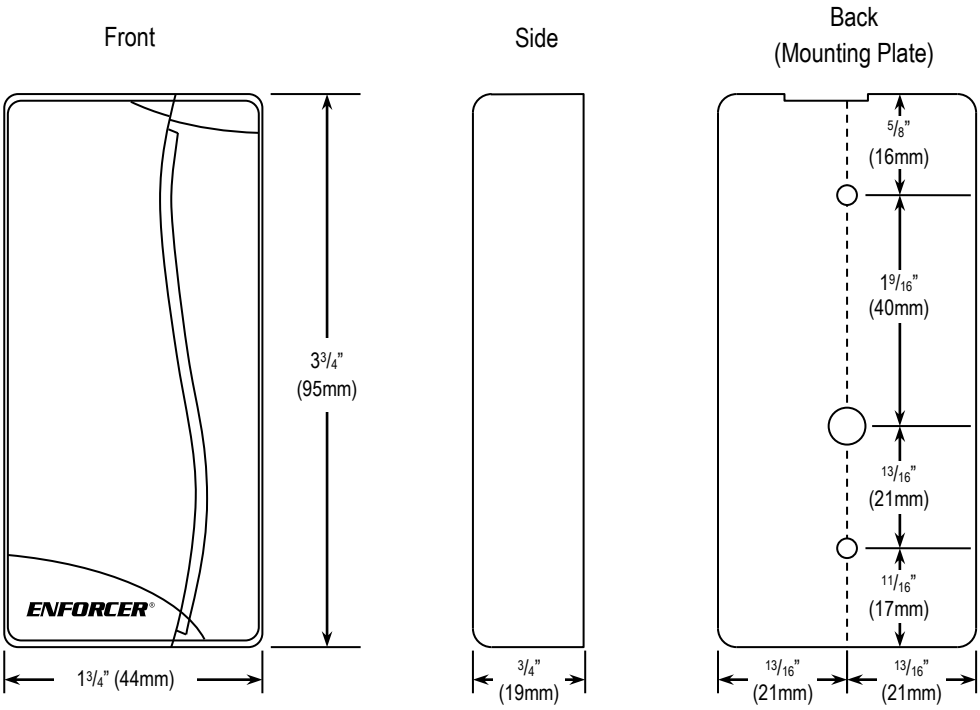
Proximity cards
(sold in packs of 10)



Features:

- Stand-alone operation.
- Use in small businesses, homes, parking structures, apartments, and other locations.
- Sealed and weatherproof (IP67).
- Mounts easily to interior and exterior walls.
- Attractive tri-color wave-shaped LED status bar indicates proximity reader's mode and status.
  BLUE: On/valid card indicator
  GREEN: Programming mode
  RED: Invalid card
- Relay output can be programmed for timed (1~180 seconds) or toggle mode.
- Egress input for simple egress of the protected area.
- Buzzer is programmable for audible confirmation or silent mode.
- Up to 100 user cards can be programmed.
- User cards are easily deleted.
- Up to 5 master cards can be programmed.
- Proximity cards – When placed within 6" (15cm) of the proximity card reader, a valid card will grant access to the protected area. 10 Cards included.
  (Additional cards available. Model #: PR-K1S1-A. Sold in packages of 10.)

Dimensions:



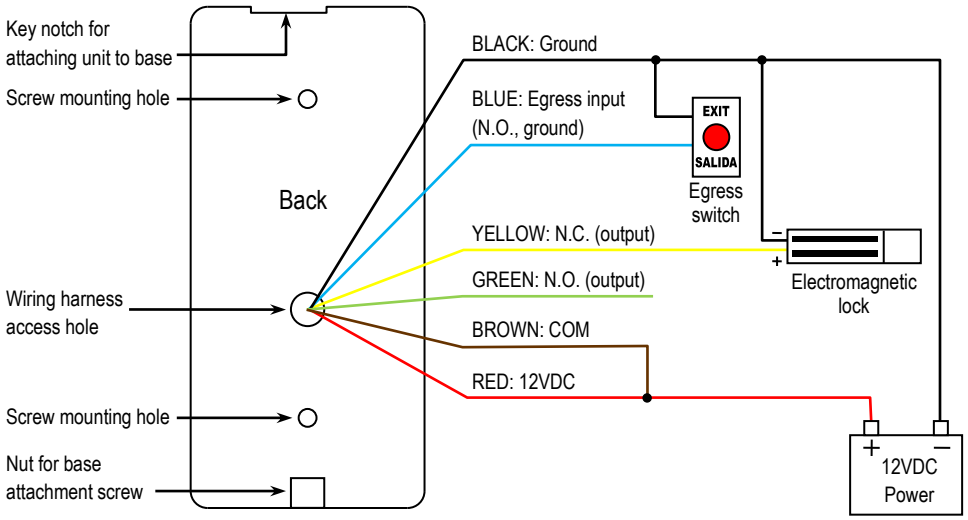
Installation Instructions:

1. Unpack the unit and familiarize yourself with the proximity reader and the included parts.
2. Test the mounting location for fit.
3. Using a T-10 Torx driver (not included), remove the screw from the bottom of the proximity reader and separate the outside case from the base.
4. Place the base on the mounting location, and then mark the two mounting holes and the wire-harness hole.
5. Drill a 1/2" hole for the proximity reader's wire harness.
6. Permanently screw the base into the mounting location.
7. Run the wires from the power supply, egress button, and door unlock device through the hole to connect to the wire harness.
8. Connect the wires to the proximity reader's wire harness. Solder or crimp the connections and carefully insulate them.
9. Reattach the outside case to the base.
10. The preliminary installation is done. Now program the proximity reader.

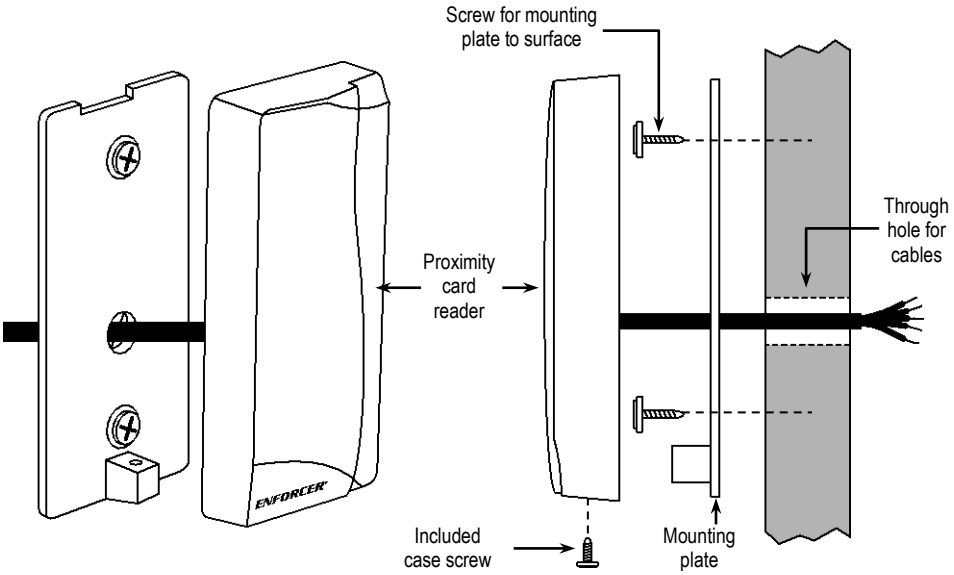
Wire Coding:

RED	—	(+) 12VDC	
BLACK	—	(–) GND	
BLUE	—	Egress input (N.O., ground)	
YELLOW	—	N.C. Output	Relay, 1A@30VDC
GREEN	—	N.O. Output	
BROWN	—	COM	

Sample Installation:



Mounting Diagram:



Getting Started:

Card Types:

There are three basic types of cards used by the proximity reader:

- Master card – Used for programming only. It does not give access to the protected premises.
- User card – Used for access only.
- Blank card – A card that has not yet been programmed into the proximity reader. Considered to be an invalid card.

NOTE – The proximity reader can learn up to 5 master cards and 100 user cards.

LED Color Indicators:

LED Color	Status Indicated
BLUE	The proximity reader is powered on and in standby mode
GREEN	The proximity reader is in programming mode
RED	Indicates an error or invalid card

First-Time Power Up:

1. After connecting power, the unit should beep once and the LED should be **BLUE** – The proximity reader is ready to be programmed using the included pre-programmed master card (marked with a red sticker).
2. If after connecting power for the first time the LED is flashing **GREEN**, you must program a master card by tapping any blank card to the reader.
3. This will be followed by 2 short beeps and the LED should turn **BLUE**.
4. The proximity reader is ready to be programmed using the master card you just created.

Programming:

1. **Add a new user card:**

Action	Reaction
Tap a master card 1 time	2 Beeps, LED flashes **GREEN**
Wait 3 seconds	1 Beep, **GREEN** flashes continue
Tap a blank card 1 time	1 Beep, the card is now a user card
Tap more blank cards 1 time each to create more user cards	1 Beep for each new user card
Exit – To exit programming mode, tap a master card 1 time or wait 15 seconds	

NOTE – Attempting to add a previously-learned user card or master card will cause the unit to beep twice and the LED to flash **RED**.

2. **Delete the user card following this user card:**
Use this to delete a missing user card.

Action	Reaction
Tap a master card 2 times	2 Beeps after first tap, 1 more beep after second tap, LED flashes **GREEN**
Wait 3 seconds	2 Beeps, **GREEN** flashes continue
Tap the user card that was added just before the card to be deleted	2 Beeps, the desired user card is deleted
Exit – To exit programming mode, tap a master card 1 time or wait 15 seconds	

NOTE – Attempting to delete a blank card or a master card will cause the unit to beep twice and the LED to flash **RED**.

3. **Delete this user card:**
Use this to delete a user card that is in your possession.

Action	Reaction
Tap a master card 3 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	3 Beeps, **GREEN** flashes continue
Tap the user card to be deleted	3 Beeps, the user card is deleted
Exit – To exit programming mode, tap a master card 1 time or wait 15 seconds	

NOTE – Attempting to delete a blank card or a master card will cause the unit to beep twice and the LED to flash **RED**.

4. **Delete all user cards:**

Action	Reaction
Tap a master card 4 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	4 Beeps, **GREEN** flashes continue
WITHIN 3 SECONDS, tap the master card again.	4 Quick beeps, all user cards are deleted
Exit – The unit automatically exits to standby mode	

5. **Add a new master card** (**WARNING – Master cards cannot be deleted.** See pg. 10, *System Reset* for instructions on clearing all cards from memory.):

Action	Reaction
Tap a master card 5 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	5 Beeps, **GREEN** flashes continue
Tap a blank or user card	2 Beeps, the card is now a master card
Tap more blank or user cards 1 time each to create more master cards	2 Beeps for each new master card
Exit – To exit programming mode, tap a master card 1 time or wait 15 seconds	

6. **Set the door-release timer** (Default: 5 seconds):

Action	Reaction
Tap a master card 6 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	6 Beeps, **GREEN** flashes continue
Count the beeps	1 Beep = 1 second for the door release timer
Tap the master card to stop the beeps at the desired time	The timer is now set for the number of seconds
Exit – The unit automatically exits to standby mode	

7. **Show how many user cards have been programmed:**

Action	Reaction
Tap a master card 7 times	2 Beeps after first tap, 1 more beeps after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	7 Beeps, **GREEN** flashes continue
Wait 1.5 seconds	Silence
Count beeps for the first digit	Long beep = 0 or 1 beep = 1
Wait 1 second	Silence
Count beeps for the second digit	Long beep = 0 or 1~9 beeps = 1~9
Wait 1 second	Silence
Count beeps for the third digit	Long beep = 0 or 1~9 beeps = 1~9
Exit – The unit automatically exits to standby mode	

Counting the beeps – The number of beeps indicates the value of each digit. All three digits together give the number of user cards that have already been programmed.

Some examples:

Number of user cards	Beep sequence
13	Long beep / 1 beep / 3 beeps
24	Long beep / 2 beeps / 4 beeps
7	Long beep / Long beep / 7 beeps
100	1 Beep / Long beep / Long beep

8. **Set the relay toggle mode** (Timed output or toggle; default: timed output)**:**

Action	Reaction
Tap a master card 8 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	8 Beeps, **GREEN** flashes continue
Wait a second, and the mode changes automatically	Beeps 1 time = normal mode Beeps 2 times = toggle mode
Exit – The unit automatically exits to standby mode	

Normal mode – Use a user card to unlock the door, the door automatically locks after the timer has expired.
Toggle mode – Use a user card to unlock the door, then use a user card to relock the door.

9. **Please note that tapping the master card 9 times will have no effect.**

10. **Set the beeper mode** (ON or OFF; default: ON)**:**

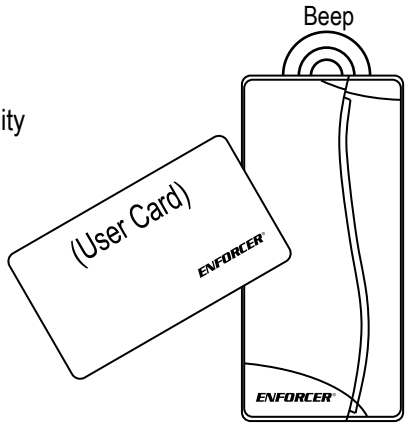
Action	Reaction
Tap a master card 10 times	2 Beeps after first tap, 1 more beep after each subsequent tap, LED flashes **GREEN**
Wait 3 seconds	10 Beeps, **GREEN** flashes continue
Wait a second, and the mode changes automatically	Beeps 1 time = beeper OFF Beeps 2 times = beeper ON
Exit – The unit automatically exits to standby mode	

NOTE – When the beeping is programmed OFF, the proximity reader will still beep during the programming mode.

Operating Instructions:

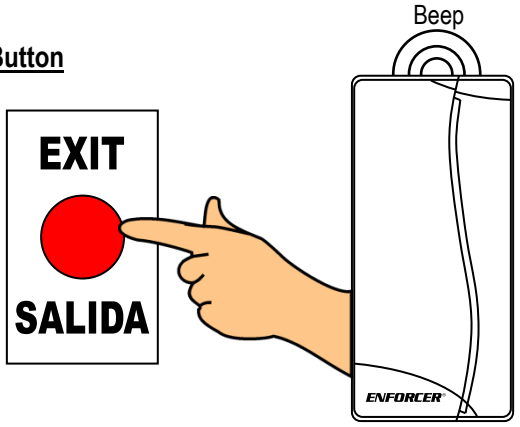
Entering the Premises – User Card

To enter a protected premise, tap the proximity reader one time with a user card. The LED turns off momentarily, the proximity reader sounds one short beep, and the relay output engages for the programmed time.



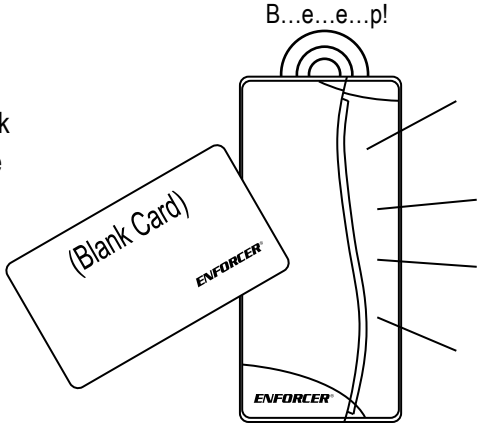
Exiting the Premises – Egress Button

To exit a protected premise, press the egress button once. The LED turns off momentarily, the proximity reader sounds one short beep, and the relay output engages for the programmed time.



Using an Invalid Card

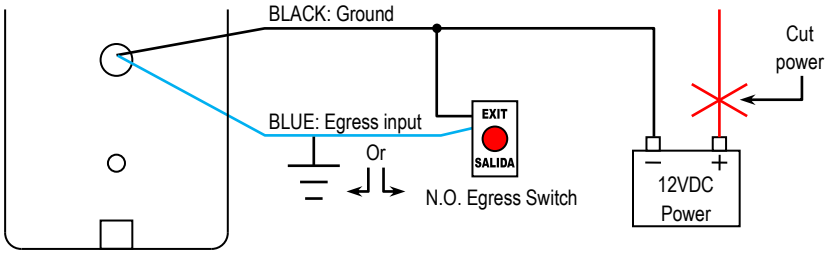
If the proximity reader is tapped using a blank or invalid card, the LED flashes **RED** and the proximity reader sounds one long beep.



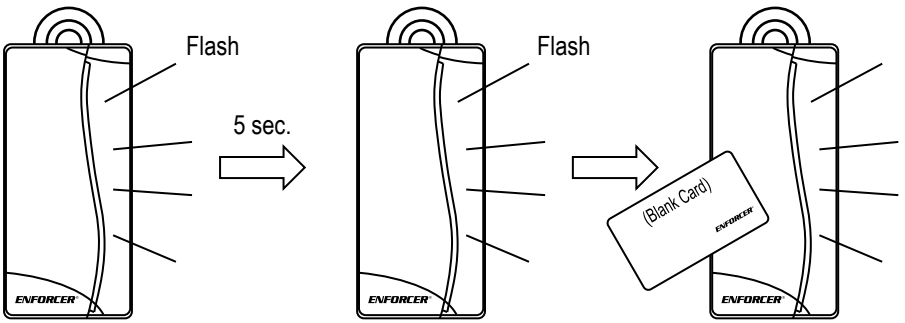
System Reset:

Should it be necessary to completely reset the proximity reader, follow this procedure:

1. Disconnect power to the proximity reader.
2. Ground the BLUE wire:
   a. If the egress button is connected, DO NOT open the case. Just press and hold the egress button.
   b. If the egress button is not connected, you must unscrew the proximity reader from the wall, and ground the BLUE wire.



3. While either pressing the egress button or grounding the BLUE wire, reconnect power. The LED will start to blink **GREEN**. Continue pressing the egress button or grounding the BLUE wire.
4. After about 3 seconds, the proximity reader should sound two long beeps. At this point, release the egress button or unground the BLUE wire.
   NOTE – If a mistake is made, just restart this process from step 2 above.
5. After a few seconds, the proximity reader will sound 3 beeps and the LED will start flashing **GREEN** rapidly. After about 5 seconds, the LED will flash more slowly. At this point, tap any card to the proximity reader. This is now the first master card.



NOTE – After a system reset, all cards except the new master card are now considered to be blank cards.

User List:

User	User Name	Card #
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

NOTE – Please make and use a copy of the chart and store the original in a safe place.

Troubleshooting:

The LED does not light	• Check the power connection • Check the power supply
The relay does not activate	• Make sure you are using a valid user card • Make sure the relay is not in toggle mode • Make sure the correct relay output is being used (either N.O. or N.C.)
The relay time is too short	• Set a longer door-release time
Egress button not working	• Make sure you are using a N.O. switch • Double-check the door-release time • Double-check the relay toggle mode

Also Available from SECO-LARM®:

Electromagnetic Locks



80, 300, 600, and 1,200-lb Holding force available

Electric Door Strikes



Different sizes and applications available

Request-to-Exit Plates



Different sizes and button types available

WARNING: Incorrect mounting which leads to exposure to rain or moisture inside the enclosure could cause a dangerous electric shock, damage the device, and void the warranty. Do not open the case of this device, as there are no field-serviceable components inside.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original consumer 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 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 damages of any kind to the purchaser or anyone else.

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors.
Copyright © 2013 SECO-LARM U.S.A., Inc. All rights reserved. This material may not be reproduced or copied, in whole or in part, without the written permission of SECO-LARM.

SECO-LARM® U.S.A., Inc.
16842 Millikan Avenue, Irvine, CA 92606
Tel: 800-662-0800 / 949-261-2999
Website: www.seco-larm.com
E-mail: sales@seco-larm.com