



⚠ WARNING

TO REDUCE THE RISK OF SEVERE INJURY OR DEATH TO PERSONS:

1. READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
2. Disconnect power to access device before installing the receiver or servicing this unit.
3. Activate the door ONLY when it can be seen clearly, is properly adjusted, and there are no obstructions to the door travel.
4. NEVER permit anyone to cross the path of a closing door.

Contents

Article No.	Components
 <p>CARDREADER017</p>	<ul style="list-style-type: none"> ➔ Inductive contact-less card reader and/or keypad control. Can be used as a stand alone for access control of doors, gates and barrier arms. ➔ Rugged waterproof metal unit. ➔ Up to 2000 users. ➔ Powered by regulated 9-28VDC power supply. Regulated 24VDC is available with the addition of POWERBLOCK012. ➔ Dimensions: 4.74" L, 2.2" W, 0.71" D / 1.62 lb (12 cm L, 5.6 cm W, 1.8 cm D / 734 g). ➔ Luminous keypad for nighttime use, tamper alarm, doorbell button, output for monitoring of user access, vandal resistant.
 <p>POWERBLOCK012</p>	<ul style="list-style-type: none"> ➔ Regulated 0,5Amp power supply. ➔ 24VAC input / 24VDC output. ➔ Regulated 24VDC output ➔ Over current protection 1A fuse. ➔ Snap track mounted. ➔ Screw terminals with pressure plate. ➔ Dimensions: 3.00" L, 2.25" W, 2.00" H / 0.25 lb (7.22cm L, 5.72cm W, 5.1cm H / 114 g).

Installation / Wiring Instructions

Space required for a mounting surface should be at least 5" x 2.2" (12.7 cm x 5.6 cm).

1. Remove the mounting plate from the back of the unit to use as a template for the mounting screws, refer to Figure 1.
2. Drill the mounting holes and affix the mounting plate to the surface.
Note: The mounting plate also fits to ordinary wall outlet junction boxes.
3. Make sure the wires are routed so they are not damaged or shorted.
4. Make sure the connections are per the job site requirements and the wiring schematics, refer to Figure 2, p.2.
5. Install the front cover to the back and tighten the unit in place.
6. Proceed to the Programming Instructions, p.2.

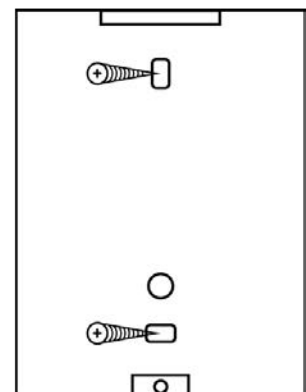


Figure 1 - Mounting Plate

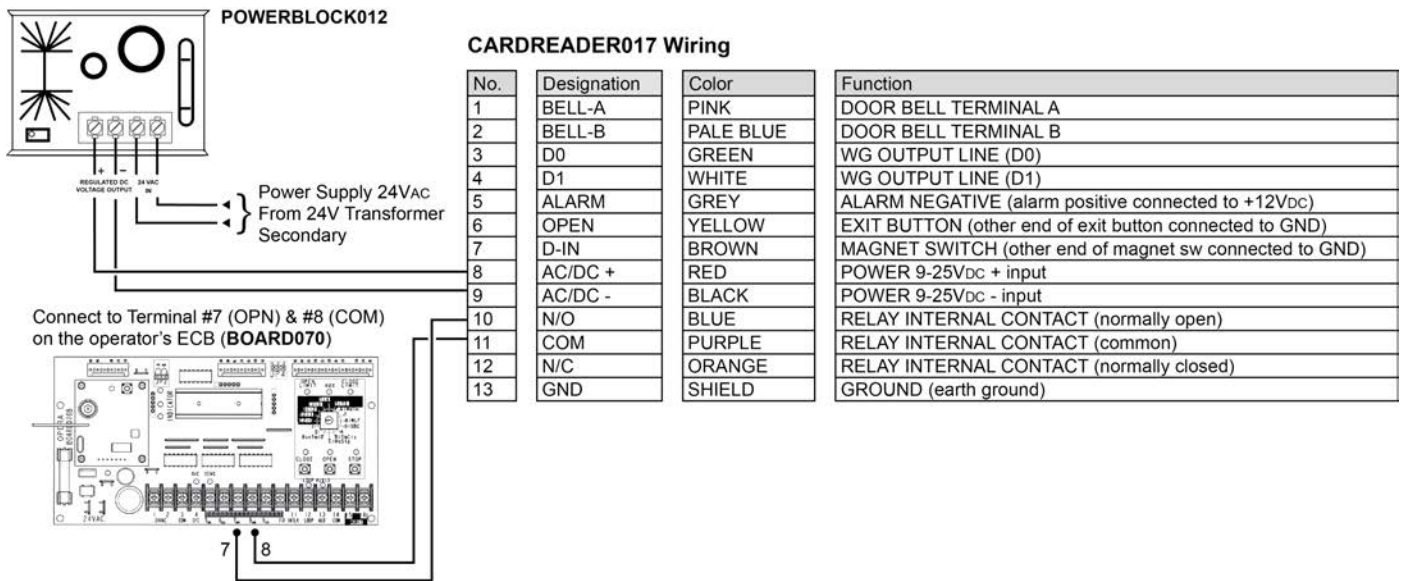


Figure 2 - CARDREADER017 and POWERBLOCK012 Wiring Schematic

Programming Instructions

Note: [#] represents the pound symbol key in all instruction sequences below. Programming mode is indicated by the solid RED light. You may exit the programming mode by pressing the [*] key or wait until the unit has timed out, indicated by a flashing RED light.

To enter Programming Mode Press [* 9 9 9 9 9 #] on the card reader (system default).

1. To change the Administrator Pass Code:

Press [0 NEW PASS CODE #] and then repeat [NEW PASS CODE #].

Note: The administrator pass code must be between 6-8 random digits. Please remember to record this new pass code for future reference.

2. Adding Users:

i. Adding card(s) automatically by scanning the card(s):

Press [1 SCAN CARD1], [SCAN CARD2], [SCAN CARD3], ...

Press [#] to end adding card(s) and [*] to exit programming mode.

ii. Adding designated card(s) manually:

Press [1 ENTER 8 DIGIT CARD1 NO], [ENTER 8 DIGIT CARD2 NO], ...

Press [#] to end adding card(s) and [*] to exit programming mode.

iii. Adding card(s) to designated ID number(s), by scanning the card(s):

Press [1 ID NO1 # SCAN CARD1], [1 ID NO2 # SCAN CARD2], ...

Press [#] to end adding card(s) and [*] to exit programming mode.

Note: Input ID number must be between 1-4 digits. Example: (1), (01), (001), (0001) with the range being between 1-2000.

iv. Adding card(s) to designated ID number(s), by entering the card number(s) manually:

Press [1 ID NO1 # ENTER 8 DIGIT CARD1 NO #], [1 ID NO2 # ENTER 8 DIGIT CARD2 NO #], ...

Press [#] to end adding card(s) and [*] to exit programming mode.

Note: Input ID number must be between 1-4 digits. Ex: (1), (01), (001), (0001) with the range being between 1-2000.

v. Adding ID number(s) and pass code(s) manually:

Press [1 ID NO1 # PASS CODE1 #], [ID NO2 # PASS CODE2 #], ...

Press [#] to end adding ID numbers(s) and pass codes(s) and [*] to exit programming mode.

Note: This is for users with a **pass code only, no card**. A pass code may be any four digit combination



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Installation & Wiring Instructions

(except for "1234" - it is reserved by the system).

3. Deleting Users:

- i. Delete card(s) by scanning the cards:
Press [2 **SCAN CARD1**], [**SCAN CARD2**], ...
Press [#] to end and [*] to exit programming mode.
- ii. Delete designated card(s):
Press [2 **ENTER 8 DIGIT CARD1 NO #**], [**ENTER 8 DIGIT CARD2 NO #**], ...
Press [#] to end and [*] to exit programming mode.
- iii. Delete designated ID number(s):
Press [2 **ENTER ID NO1 #**], [**ENTER ID NO2 #**], ...
Press [#] to end and [*] to exit programming mode.
- iv. Delete all:
Press [2 **0 0 0**] [#].
Press [*] to exit programming mode.

4. Door Opening Settings:

- i. Card Open: Press [3 **0**] [#].
- ii. Card Plus Pass Code Open: Press [3 **1**] [#].
- iii. Card or Pass Code Open (factory default): Press [3 **2**] [#].

5. **Unlock Time Setting:** Press [4] [0-99] [#]. Range 0 to 99 seconds (factory default is 5 seconds).

6. **Alarm Output Time Setting:** Press [5] [0-3] [#]. Range is 0 to 3 minutes (factory default is 1 minute).

7. Door Ajar Alarm Function:

- i. Press [6 **0**] [#] to ignore (factory default).
- ii. Press [6 **1**] [#] to send alarm signal.
Note: If the door is ajar after 1 minute, the alarm will trip, sounding the built in buzzer for 1 minute and then will turn off. If the door is forced open, the built in alarm and the external alarm will trigger.

8. Security Mode:

- i. Press [7 **0**] [#] - Normal (factory default).
- ii. Press [7 **1**] [#] - Invalid lock.
Note: Within 10 minutes, multiple scans of an invalid card or inputs of an invalid pass code (10 times) will trigger the internal and external alarms.

User Operations

1. Modify User Pass Code:

- i. With Card:
Press [*] [**SCAN CARD**] [**ENTER OLD PASS CODE**] [#],
[**ENTER NEW PASS CODE**] [#] [**REPEAT NEW PASS CODE**] [#].
Note: If this is first time a new card is being used, the default pass code is (1234).
- ii. With Pass Code only:
Press [*] [**ENTER OLD PASS CODE**] [#],
[**ENTER NEW PASS CODE**] [#] [**REPEAT NEW PASS CODE**] [#].
Note: For users without a card.



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2. Door Open Operations:

- i. With Card: [**SCAN CARD**].
- ii. With Pass Code: Press [**USER PASS CODE**] [**#**].
If the correct code is entered, the door will open. If the incorrect code is entered, 9 more attempts are permitted before the unit locks and needs reset by administrator (or swipe of valid card).
- iii. With Card and Pass Code: [**SCAN CARD**] [**USER PASS CODE**] [**#**].
If the card is valid and the user pass code is correct, the door will open. If the card or the pass code is incorrect, 9 more attempts are permitted before the unit locks and needs reset by administrator (or scanning of a valid card and correct pass code entry).

3. Administrator Functions:















- i. Remove Alarms: [**ENTER ADMINISTRATOR PASS CODE**] [**#**], refer to Programming Instructions, p.2.
- ii. Administering users, pass codes, alarm settings, timing functions, refer to Programming Instructions, p.2.

4. Restore Factory Settings:

- i. Disconnect power.
- ii. Press the [**#**] button.
- iii. Restore power while holding the [**#**] button for 4 seconds.
- iv. The card reader will beep twice (2x).
- v. Release the [**#**] button.
- vi. Reset should be complete.

Note: Restoring to factory settings will not delete user(s) data.

Audio / Visual Indications (LED Status)

Operation State	Red LED	Green LED	Audio Alert / Beeper
Standby	 Slow Blink	 OFF	
Key Activation			1 x Beep
Success	 OFF	 ON	1 x Long Beep
Fail			3 x Short Beeps
Enter Programming	 ON (Orange)	 OFF	1 x Long Beep
Set Condition	 ON	 ON	
Exit Programming	 Slow Blink	 OFF	1 x Long Beep
Unlock	 OFF	 ON	1 x Long Beep
Alarm	 Fast Blink	 OFF	Alarm Sound

For further information, please consult the operator's Installation & Instruction Manual or contact our Technical Support Department at **1-800-361-2260**.