

# Badge Verification Reader

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The badge Verification Reader is an affordable and flexible way to increase security in “Open Lobby” Environments

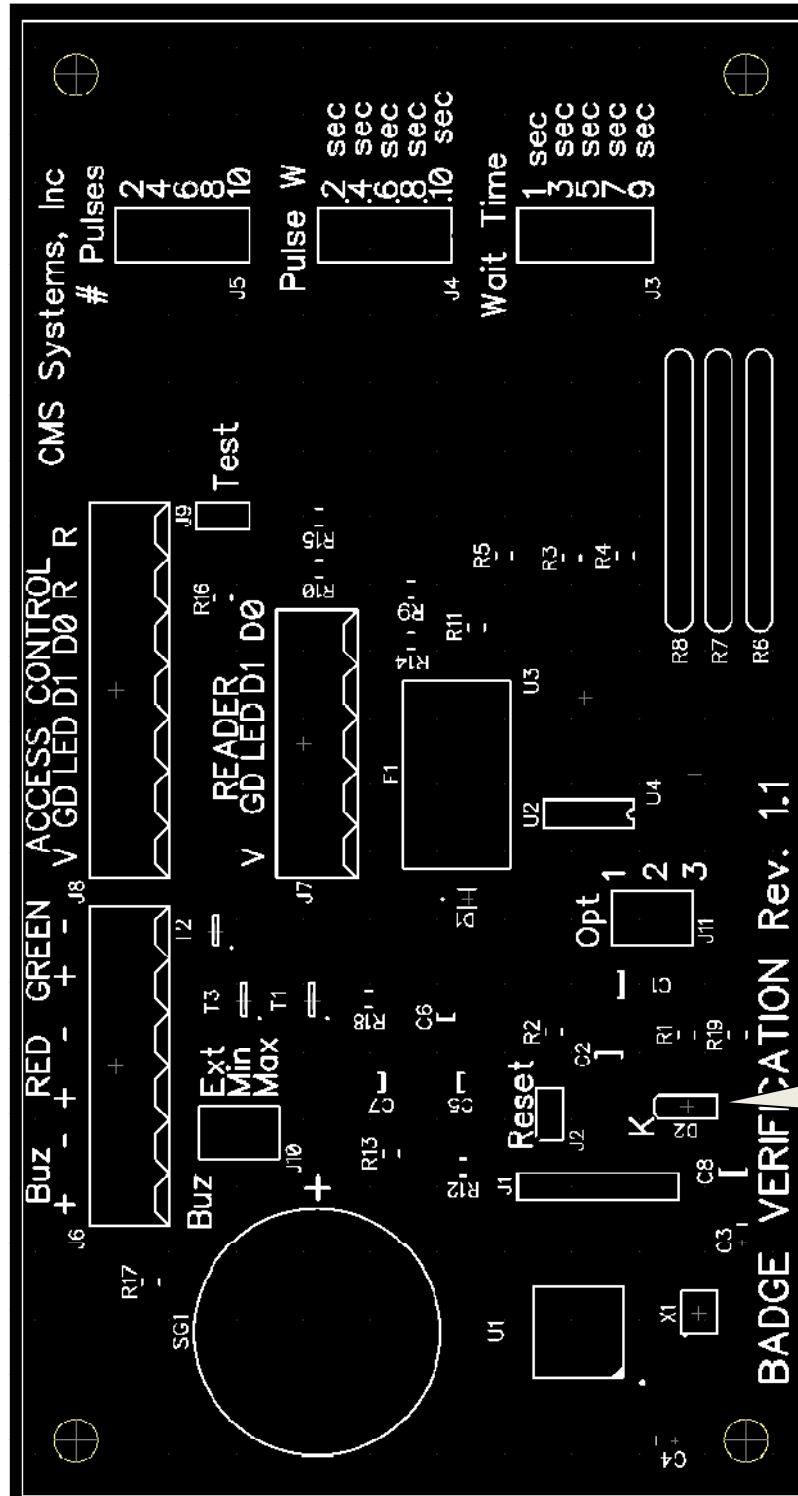
## Key Features

- The Badge Verification Reader is compatible with all access control systems.
- The Badge Verification Reader allows the security personnel to quickly verify access badges without having to check a computer screen.
- Easy to interpret LED lighting and sound:
  - When the badge is presented, the red and green LED blink rapidly to indicate that the unit is waiting for confirmation from the access control system.
  - Green LED and continuous beep indicates that the badge is valid.
  - Red LED and intermittent beeping indicates that the badge is not valid.
- Flexible field programmable
  - Duration of green LED and beep (badge valid) is adjustable using the access control system.
  - Duration and number of pulses when badge is not valid is adjustable on the unit.
  - Buzzer volume is adjustable on the unit.
  - The unit allows you to use your own buzzer and lights (100mA maximum).

The Badge Verification Reader is available in 6 configurations:

1. C16-006-BP: the printed circuit and mounting plate. You can install your own buzzer and indicators.
2. C16-006-CM: same as above, but with the cover and LEDs installed.
3. C16-006-R10-B: same as above, but with iClass R10 BLACK reader installed (all you need to do is connect the access control system).
4. C16-006-R10-G: same as above, but with iClass R10 GRAY reader installed (all you need to do is connect the access control system).
5. C16-006-R40-B: same as above, but with iClass R40 BLACK reader installed (all you need to do is connect the access control system).
6. C16-006-R40-B: same as above, but with iClass R40 BLACK reader installed (all you need to do is connect the access control system).

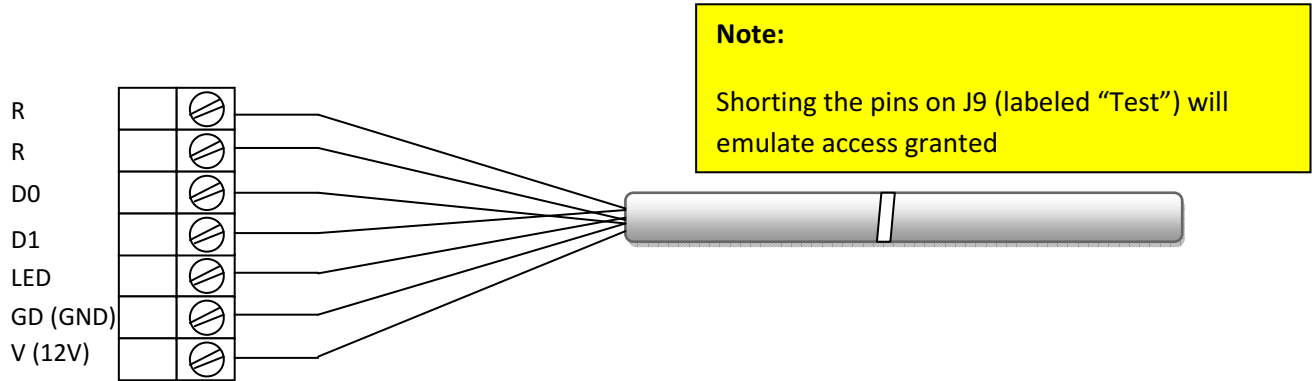
## Board layout



Life LED. Should be blinking green every 5 seconds

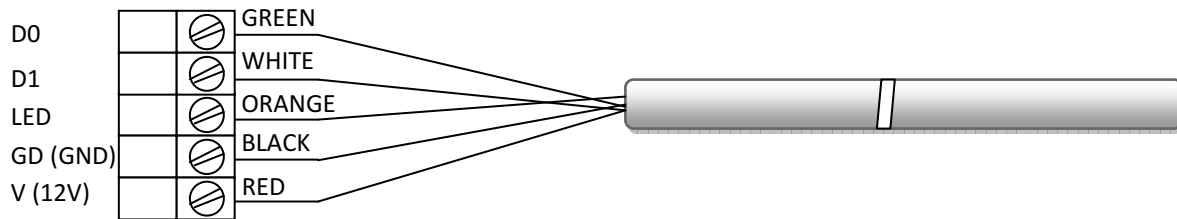
The circuit is protected by a 1A fast acting fuse (part number 0257001.PXPV from LITTLEFUSE). Please only replace with the same part.

## Connection to access control system

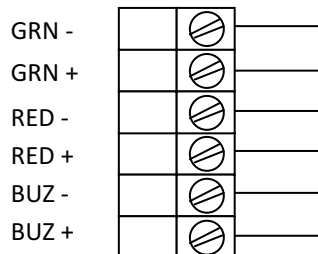


The 2 wires labeled "R" should be connected to the NO relay contact of the access control system. The buzzer and the green LED will be activated for as long as the door relay is activated when access is granted. Use between 9V-15V DC for V (labeled 12V).

## Connection to reader

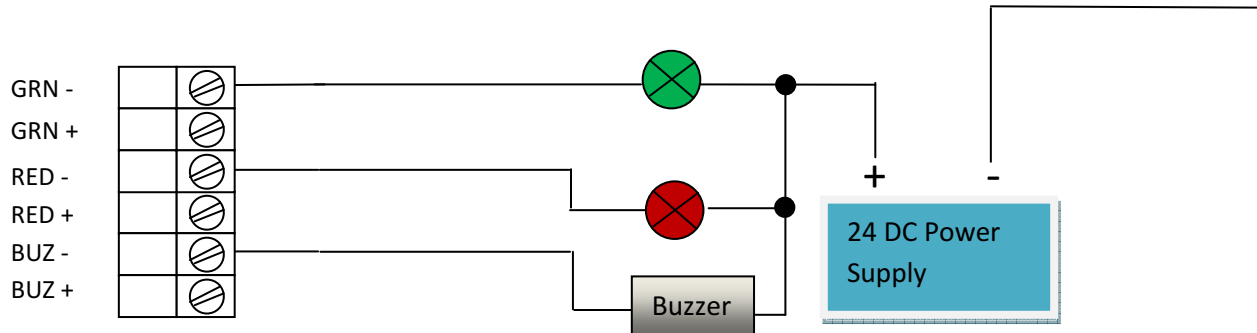


## Connect your buzzer and indicators



**Note:**  
All outputs are 12V DC with a maximum current of 100mA

## Connect your buzzer and indicators with voltage other than 12V



Connect the - from the auxiliary power supply to the GND of the Badge Verification Unit

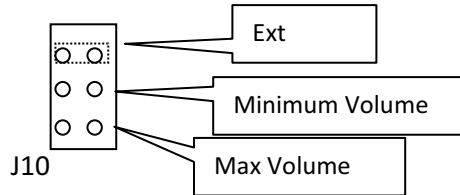


**Note:**

Maximum current for each output: 100mA

## Jumper selection

Buzzer volume



Select Ext if you connect your own buzzer. Output 12V DC Max 100mA

## Wait time for access control system

J3 allows you to select the time expressed in seconds that the unit will wait for the access control system to react when a badge was presented. Once the wait time expires the units will signal that the badge is being denied.

- J3
- 1 sec
  - 3 sec
  - 5 sec
  - 7 sec
  - 9 sec

## Pulse width when access denied

This selection together with the number of pulses determines how long the access denied signal will last. The total time will be the pulse width multiplied with the number of pulses.

- J4
- .2 sec
  - .4 sec
  - .6 sec
  - .8 sec
  - .10 sec

## Number of pulses when access denied

- J5
- 2 X
  - 4 X
  - 6 X
  - 8 X
  - 10 X

**Important**  
When modifying any of the jumper settings, reset the unit by shorting the 2 pins on jumper J2 (labeled "Reset") for the changes to take effect