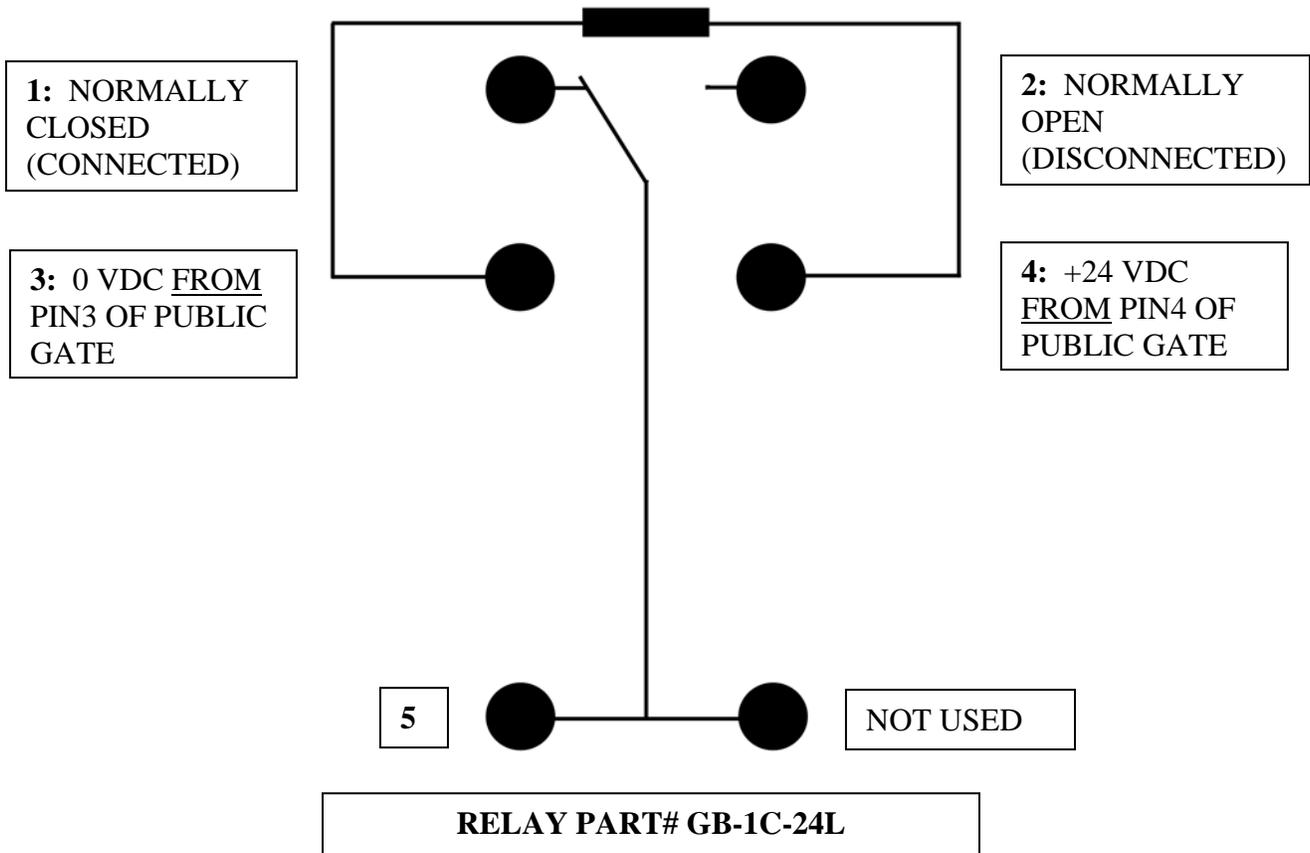




## SCHEMATIC FOR CUSTOM PUBLIC GATE USING EXTERNAL DRY CONTACT RELAY

### STATE OF RELAY WHEN +24 VOLTS IS SUPPLIED TO THE PUBLIC GATE

Note: Numbers are labeled on the wires. The numbers shown below are not the terminal numbers of the public gate's circuit board. The numbers refer to the relay providing the dry contact circuit.



Max.Switching Power	90W 625VA
Max.switching Voltage	60VDC 220VAC
Max.switching Current	5A

**Maximum Switching Power:** The upper limit of power which can be switched by the contacts.

**Maximum Switching Voltage:** The maximum open circuit voltage which can safely be switched by the contacts.

**Maximum Switching Current:** The maximum current which can safely be switched by the contacts.

**Pin 2 and 3 jumped on J3 (default)**

**Characteristic When Public Gate is Powered ON:**

- 5 and 1 are normally connected.
- When a valid card is read the connection between 5 and 1 is broken for 10 seconds.
- When a valid card is read a connection between 5 and 2 is established for 10 seconds.

**Characteristic When There is NO Power Supplied to the Public Gate:**

- 5 and 1 are connected when there is no power supplied to the Public Gate.

**Pin 1 and 2 jumped on J3**

**Characteristic When Public Gate is Powered ON:**

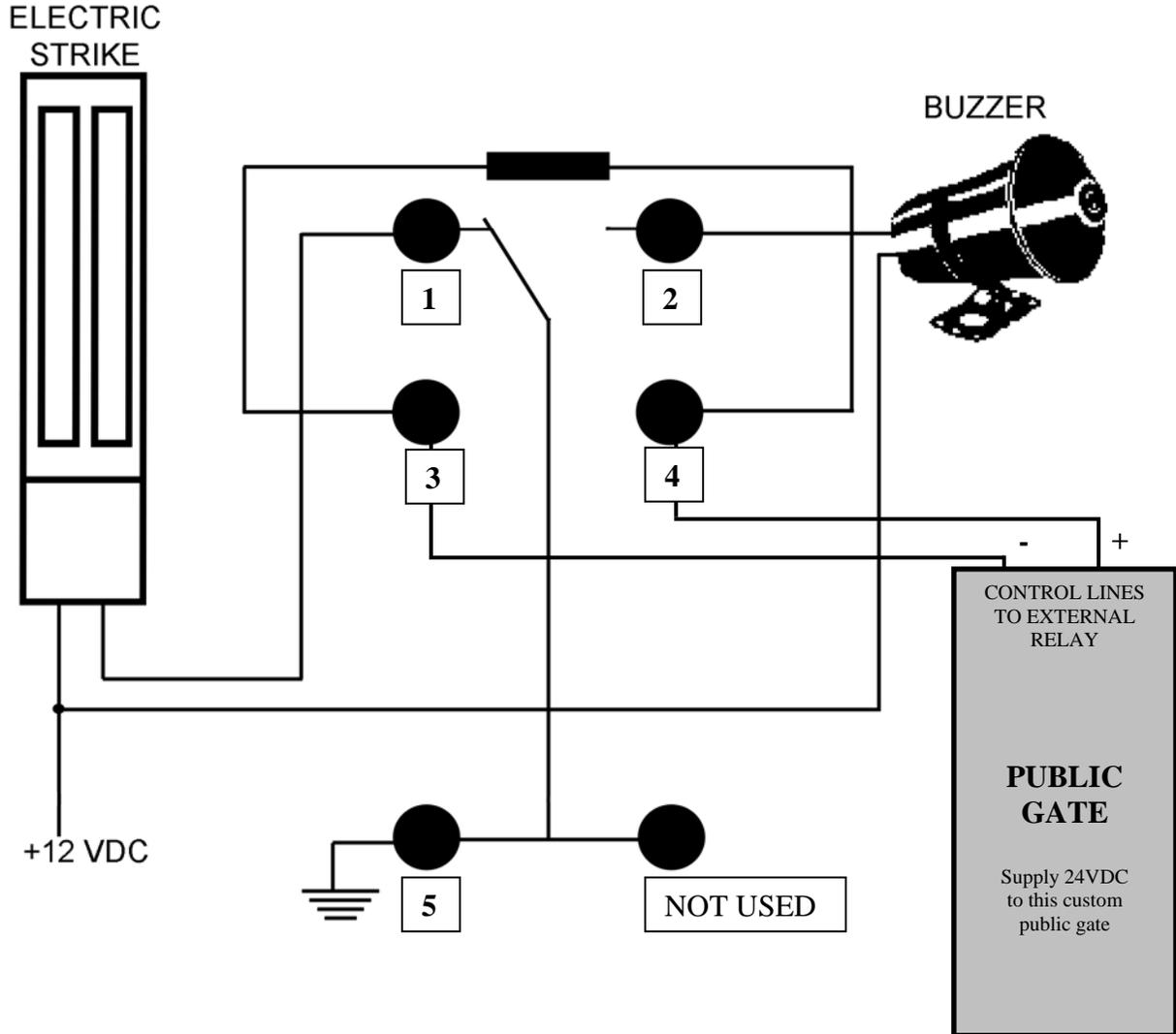
- 5 and 2 are normally connected.
- When a valid card is read the connection between 5 and 2 is broken for 10 seconds.
- When a valid card is read a connection between 5 and 1 is established for 10 seconds.

**Characteristic When There is NO Power Supplied to the Public Gate:**

- 5 and 1 are connected when there is no power supplied to the Public Gate.

## SAMPLE WIRING DIAGRAM OF CUSTOM EXTERNAL RELAY

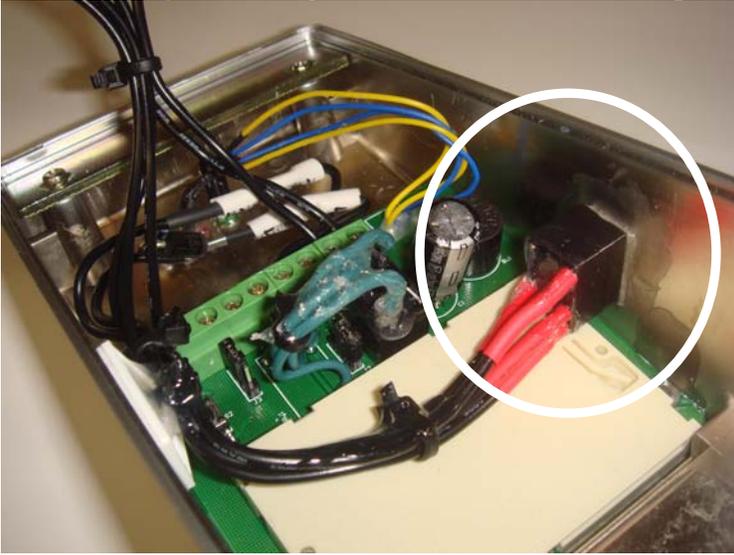
(SPECIAL ORDER FROM BELINE)



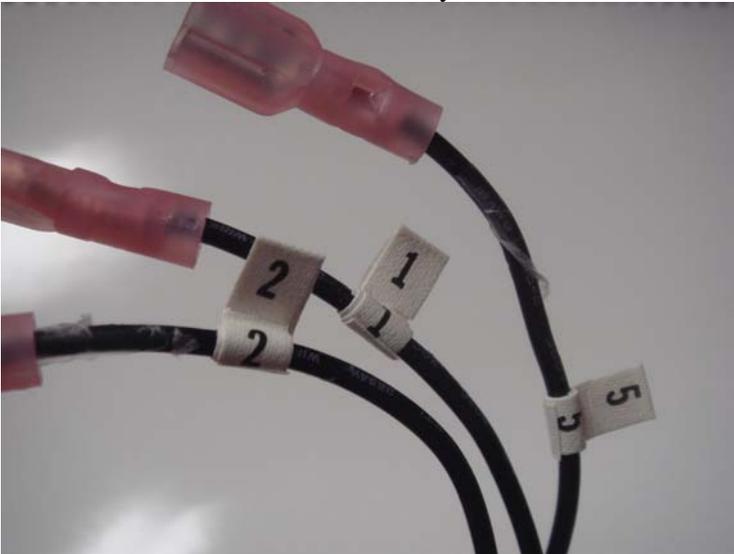
Note: Numbers are labeled on the wires. The numbers shown above are not the terminal numbers of the public gate's circuit board. The numbers refer to the relay providing the dry contact circuit.

According to the diagram shown above, a +12VDC electric strike is being continuously powered to keep the door locked. The electric strike shown here is in a fail safe mode. If power is cut off during an emergency, the electric strike will release to keep the door unlocked. When a valid card is read by the public gate card reader voltage is supplied from the public gate controller to the relay shown above. The relay is energized and contact is removed from the electronic strike to open the door. Contact is then established with the buzzer. The buzzer sounds as a result of the power supplied.

External relay added to generation 2 circuit board in public gate housing.



Labels on wires from external relay.



### **Connecting to a Request to Unlock Button**

Connect your Request to Unlock Button to wires labeled 44 and 45. If you use a button it must be a momentary “break” button. This means that wires 44 and 45 are normally connected until the button is pushed to momentarily break the circuit. When the circuit (connection between wires 44 and 45) is broken the internal relay will switch.

### **Connecting Power to the Public Gate**

Connect 24VDC to the wire wrapped in Red shrink tube.

Connect DC Ground to the wire wrapped in Black or Green shrink tube.

These two power connections are labeled with colored shrink wrap rather than numbers.