

RL-1A, RL-1B

Interface Relay Modules



Installation Instructions

1. INTRODUCTION

The RL1-A and RL1-B are designed to provide proper interface between control panels that do not have an output relay and auxiliary devices such as self-activating sirens, bells, dialers etc.

Both modules provide Form 1C, 1A relay contacts that close upon alarm and can be used to control an auxiliary device.

The relay may be energized via the SIR input by:

- An open collector alarm output that goes low upon alarm.
- The audio output of the control panel's siren driver.

In addition, a 12 VDC output marked CHG is available on both modules:

RL-1A: the 12 Volt output is supplied through a 22-ohm resistor for charging the storage battery in a self-activated siren (see Figures 3, 4 and 5).

RL-1B: the 12 Volt output is supplied through a 1.5 A fuse, thus providing an additional fused power supply for sirens or detectors (see Figure 5).

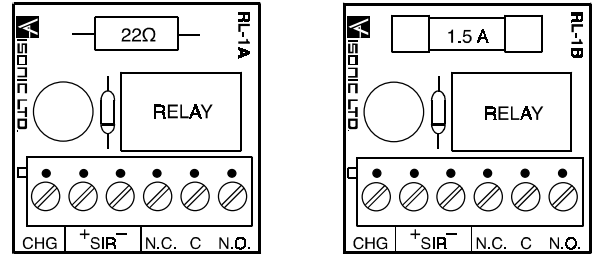


Figure 1. Relay modules RL-1A (left) and RL-1B (right)

2. SPECIFICATIONS

Relay Coil Current Drain: 30 mA at 12 VDC

Switching Capability: Form 1C changeover contacts, 1A resistive @ 30 VDC

RL-1B Fuse Rating: 1.5 A

Operating Temperature Range: -10°C to 50°C (14°F to 122°F).

Dimensions: 37 x 37 x 43 mm (1-1/2 x 1-1/2 x 1-3/4").

Weight: 25 g (0.9 oz).

3. INSTALLATION

3.1 Mounting

The module may be mounted on the wall or within a cabinet, either using a single screw or a reliable bonding agent. To mount with a screw, you will have to separate the printed circuit board from the plastic box, as explained hereunder.

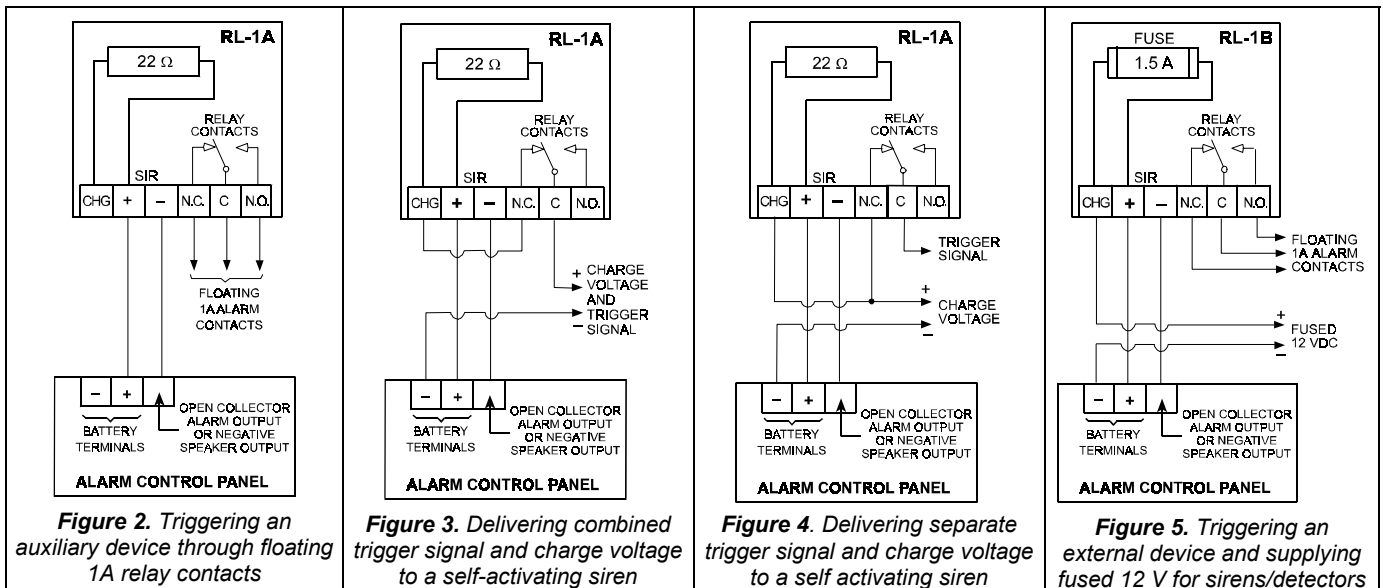
The printed circuit board is kept in place by two tabs extending inward at one edge, and a single tab at the opposite edge. Hold the module by the terminals, and use a small screwdriver to flex

the edge of the box where the single tab is located, until the PCB can be lifted up. You will then be able to remove the PCB from the two opposite side tabs and detach it from the box.

Use the mounting hole provided at the center of the box's base. Once the box is secured to the wall, remount the printed circuit board by first inserting its smooth, blank edge under the two side tabs. Press the opposite edge down against the single side tab, until it snaps into place.

3.2 Wiring

Figures 2 through 5 show a few wiring options:



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This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products.

The Manufacturer does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. User understands that a properly installed and maintained alarm may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

The Manufacturer shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function. However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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