

RL-2

Two-Relay Module



Visonic

Installation Instructions

1. INTRODUCTION

Open collector output circuits are in common use in many brands of detectors and alarm control panels, but are characterized by low-current switching capability. Where heavier loads are to be switched or when a "floating" switching circuit is required, an external relay may be the easiest solution.

The RL-2 is an auxiliary module designed to serve as an interface between open collector switching circuits and medium-current electronic devices. The module includes two SPDT, Form 1A relays and two five-position terminal blocks, one for each relay. Either relay may be separately energized by any open collector output circuit capable of sinking 30 mA. The relay's changeover contacts are used to activate devices such as sirens, strobe lights, wireless transmitters and digital communicators, as required in each application.

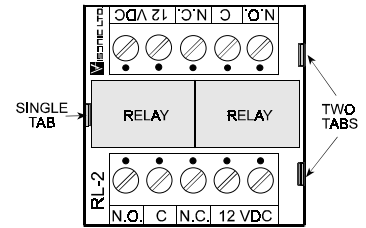


Figure 1. PCB Layout

2. SPECIFICATIONS

Number of Relays: 2

Relay Coil Current Drain: 30 mA each at 12 VDC

Switching Capability: Form 1C changeover contacts, 2A resistive @ 28 VDC

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

Weight: 28 g (1 oz).

3. INSTALLATION

3.1 Mechanical Mounting (Fig. 1)

The module may be mounted on the wall or within a cabinet, either with a single screw or with 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.

Remount the printed circuit board by first inserting the smooth, blank edge of the PCB under the box's two side tabs. Then press the opposite edge (with the Visonic Ltd. logo and the RL-2 designation) down against the single side tab, until it snaps into place.

Note: Failing to mount the PCB in its plastic box exactly as indicated above will cause partial obscurement of the markings on the PCB edge by the retainer tabs.

3.2 Wiring

Applications of the RL-2 module may involve the use of one of its relays or both relays. Since the two relays and their associated terminal blocks are identical, wiring instructions are given for one relay only.

A. "Pull-to [-]" (see A, Fig. 2)

1. On the chosen terminal block of the RL-2 module, connect any one of the 12 VDC terminals (one end of the relay coil) to the Open Collector Device's 12V (+) supply.
2. On the chosen terminal block of the RL-2 module, connect the other 12 VDC terminal (the other end of the relay coil) to the open collector output.
3. Wire the relay contacts according to your application (see example in C below).

B. "Pull-to [+]" (see B, Fig. 2)

1. On the chosen terminal block of the RL-2 module, connect any one of the 12 VDC terminals (one end of the relay coil) to the Open Collector Device's 12V (-) supply.
2. Continue as instructed in Paragraph A above, steps 2 and 3.

C. Example: Using the Relay to Operate a Siren (Fig. 2)

1. Connect the positive (+) terminal of the siren's 12 V power source to the C terminal on the chosen terminal block.
2. Connect the N.O. terminal to the 12V (+) input terminal of the siren.
3. Connect the 12V (-) terminal of the siren's power source to the 12V (-) input terminal of the siren.

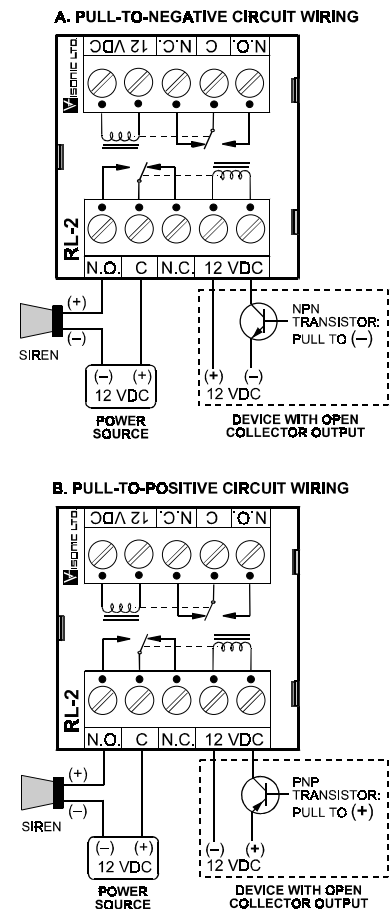


Figure 2. Typical Single-Relay Circuit Wiring

WARRANTY

Visonic Ltd. and/or its subsidiaries and its affiliates ("the Manufacturer") warrants its products hereinafter referred to as "the Product" or "Products" to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period, at its option, to repair or replace the product or any part thereof. The Manufacturer shall not be responsible for dismantling and/or reinstallation charges. To exercise the warranty the product must be returned to the Manufacturer freight prepaid and insured.

This warranty does not apply in the following cases: improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the Manufacturer.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express or implied, including any warranty of merchantability or fitness for a particular purpose, or otherwise. In no case shall the Manufacturer be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties whatsoever, as aforesaid.

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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