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# RB3008 RELAY BOARD RM3008 RELAY MODULE

WI609A 9/96

**UL Listed: Burglary and Fire Warning System Control Unit Accessory**

**GENERAL DESCRIPTION**

The RB3008 and RM3008 are 8-channel relay interface accessories for use with GEM-Series (except GEM-P800), MA3000, and Signature SS-P and 5000-Series control panels. The RB3008 Relay Board is designed for installation inside an H1518 or CF1518 housing. The RM3008 Relay Module, a self-contained remote equivalent of the RB3008, may be used with all control panels, regardless of housing. It connects onto the remote panel bus along with such other accessories as keypads and zone expansion modules. Up to 8 RB3008/RM3008 units may be used.

Both versions provide 8 independent programmable dry-contact relay outputs for controlling bells, door latches, lights, strobes and other similar devices. The panel controls the closure of each relay. Refer to installation instructions for the control panel in use for wiring requirements in UL-listed applications.

**SPECIFICATIONS**

*Input Ratings*

Voltage: 12V nominal

Current: Standby, 40mA + 10mA per energized relay

*Contact Ratings*

Voltage: 25Vac or 25Vdc max.

Current: 2A max., 0.6 Power Factor

**INSTALLATION**

**RB3008.** To mount one Relay Board inside a large MA3000 or Signature 5500 housing (H1518 or CF1518), refer to Fig. 1 and proceed as follows:

*Caution:* Always remove ac and battery power before installing or removing the RB3008.

1. Remove the motherboard from the enclosure by removing the two screws that secure the heat sink to the top of the enclosure ("A" in Fig. 1) and the two screws at the bottom of the board that secure it to the cross rail ("B" in Fig. 1).

2. Mount the RB3008 module at the middle of the enclosure, off the rear wall. Position the RB3008 with the terminal strip at the bottom so that the four mounting holes align with the raised standoffs in the enclosure. Secure the module using the four self-tapping screws supplied.

3. Replace the motherboard, securing it with the screws removed in Step 1. When fully assembled, the module will be behind the motherboard but mounted low enough so that its terminal strip is exposed.

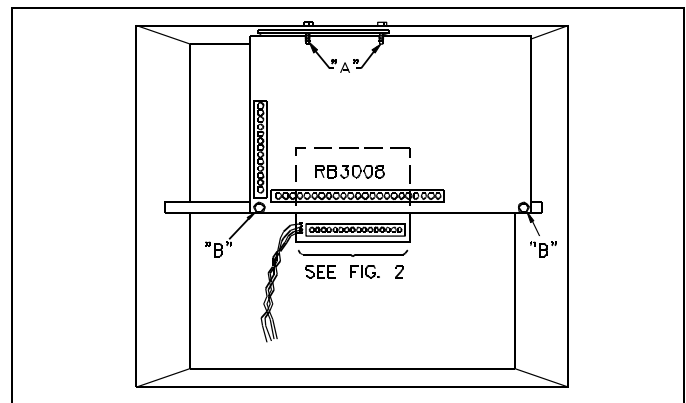


Fig. 1. Location of RB3008 within H1518 or CF1518 enclosure.

**RM3008.** Mount the rear case using 4 screws appropriate to the mounting surface.

**BOARD/MODULE ASSIGNMENT**

The control panel must be able to identify the relay board or module. This is accomplished by the proper placement of jumpers on Jumper Block J1 (see Wiring Diagram on page 2 and Table 1, below).

Module No.	Relay Nos.	Jumper Block J1				
		J1-1	J1-2	J1-3	J1-4	J1-5
1	1-8	OFF	ON	ON	ON	ON
2	9-16	ON	OFF	ON	ON	ON
3	17-24	OFF	OFF	ON	ON	ON
4	25-32	ON	ON	OFF	ON	ON
5	33-40	OFF	ON	OFF	ON	ON
6	41-48	ON	OFF	OFF	ON	ON
7	49-56	OFF	OFF	OFF	ON	ON
8	57-64	ON	ON	ON	OFF	ON
9	65-72	OFF	ON	ON	OFF	ON
10	73-80	ON	OFF	ON	OFF	ON
11	81-88	OFF	OFF	ON	OFF	ON
12	89-96	ON	ON	OFF	OFF	ON

Table 1. Board/module identification by jumper placement. Shaded area applicable to GEM-P9600/SS-P9600 only.

**WIRING**

1. Connect the four wires to the control panel as shown

in the Wiring Diagram (Fig. 2). The maximum distance for a single RM3008 wiring run is 1000 feet using # 22AWG wire. The maximum distance for up to 5 RM3008 modules connected to a single wiring run is 300 feet using # 22AWG wire.

2. Connect the remote devices as required to the individual relays. Refer to Table 2 and Fig. 2. Note that, for each relay, two terminals provide normally-open contacts, whereas the common terminal and a related lug provide normally-closed contacts.

**Note:** Use Napco Part No. WL2 for field wiring connections to normally-closed relay lugs.

Relay	COM Terminal	N-O Terminal	N-C Lug
1	1	2	1
2	3	4	2
3	5	6	3
4	7	8	4
5	9	10	5
6	11	12	6
7	13	14	7
8	15	16	8

Table 2. Relay connections.

**WIRING DIAGRAM**

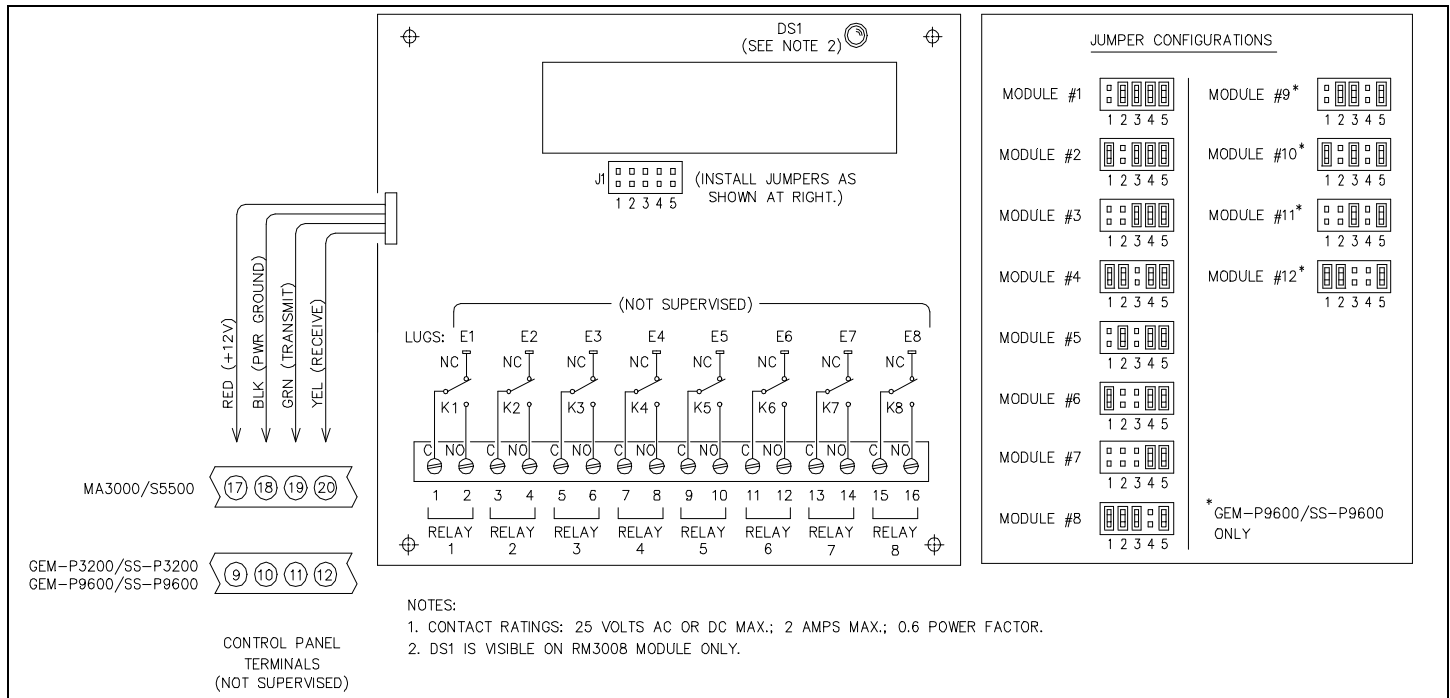


Fig. 2. RB3008/RM3008 Wiring Diagram.

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