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GEMC-RM3008 RELAY MODULE INSTALLATION INSTRUCTIONS

WI1706 08/10

UL Listed: Burglary and Fire Warning System Control Unit Accessory

GENERAL DESCRIPTION

The GEMC-RM3008 is an 8-channel relay interface accessory for use with the Gemini C-Series control panels. The GEMC-RM3008 relay board comes pre-mounted in a metal housing and connects onto the remote panel Burglary or Fire bus along with other accessories such as keypads and zone expansion modules. Up to eleven (11) GEMC-RM3008 units may be used within a GEMC-Series system.

Eight independent programmable dry-contact unsupervised relay outputs are provided for controlling bells, door latches, lights 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

Electrical Ratings

Input Power: 12.6 - 11.8VDC, 22mA + 12mA per energized relay, total 118mA of all relays energized.

Contact Ratings:

Voltage: 30VAC or 30VDC maximum. **Current:** 2A maximum (resistive load).

Maximum Wiring Length for each run (on Fire Bus or GEMC-BM burg bus): 750 feet with #22AWG, 1000 feet

with #18AWG.

Maximum Wiring Length for each run (on GEMC-BM/PS burg bus): 20 feet with #22AWG, 40 feet with #18AWG. Note: Do not use bus power to power devices on relay outputs or wire length must be reduced by half for each 120mA used.

Metal Housing (H x W x D): 10 5/16" x 8 %" x 3"

INSTALLATION

Caution: Always remove AC and battery power from main control panel before installing or removing the GEMC-RM3008.

The GEMC-RM3008 relay board metal housing is connected to the remote panel Burglary or Fire bus. For more information regarding wiring to the remote Burg bus and to the remote Fire bus, see the GEMC-Series control panel installation instructions (WI1653). **Note:** When wiring and programming are complete, secure the housing door closed with either a key lock or with the four Hex-head zinc plated 6-32 x 3/8 screws (part SC227, provided).

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).

WIRING

- Mount the enclosure with hardware sufficient to secure the unit to the mounting surface. Note: Use NAPCO part number GEM-TAMPERKIT to protect against the unauthorized removal of the GEMC-RM3008 by dedicating a zone to monitor the tamper switch.
- 2. Connect the four wires to the control panel as shown in the Wiring Diagram (Fig. 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.

PROGRAMMING

Use PCD-Windows Quickloader Download software. **Note:** Outputs of the GEMC-RM3008 may not be programmed as SILENCE-ABLE.

Module	External Relay Nos.	Jumper Block J1					
No.		J1-1	J1-2	J1-3	J1-4	J1-5	
1	18	•	ON	ON	ON	ON	
2	916	ON	•	ON	ON	ON	
3	1724	•	•	ON	ON	ON	
4	2532	ON	ON	•	ON	ON	
5	3340	•	ON	•	ON	ON	
6	4148	ON	•	•	ON	ON	
7	4956	•	•	•	ON	ON	
8	5764	ON	ON	ON	•	ON	
9	6572	•	ON	ON	•	ON	
10	7380	ON	•	ON	•	ON	
11	8188	•	•	ON	•	ON	

Table 1. Board/module identification by jumper placement.

NOTE: "•" Indicates jumper is OFF.

Relay	COM Terminal	N-O Terminal	N-C Lug
1	1	2	E1
2	3	4	E2
3	5	6	E3
4	7	8	E4
5	9	10	E5
6	11	12	E6
7	13	14	E7
8	15	16	E8

Table 2. Relay connections.

NOTES:

- 1. ONLY CONNECT POWER LIMITED CIRCUITS
- 2. ALL RELAY OUTPUTS UNSUPERVISED FOR OPEN OR SHORT ACROSS CIRCUIT
- 3. DS1 BLINKS IF BEING POLLED
- 4. MAX 2 WIRES PER TERMINAL, 14-22 AWG.

INPUT POWER: 12.6 - 11.8VDC, 22MA + 12MA PER ENERGIZED RELAY, TOTAL 118MA ALL RELAYS ENERGIZED.

CONTACT RATINGS: 30VAC OR 30VDC MAXIMUM, 2A MAXIMUM (RESISTIVE)

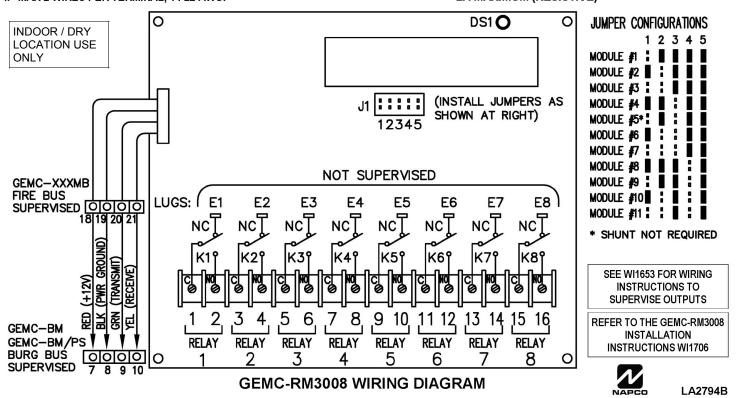
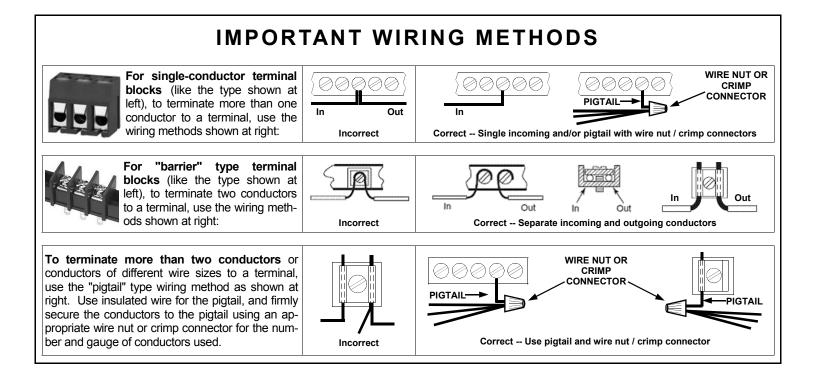


Fig. 2. GEMC-RM3008 Wiring Diagram



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