

## INSTALLATION INSTRUCTIONS

1. Turn Off the M1 Master Power Switch.
2. Mount the M1RB board. The included ELK-SWG board glides fit all ELK SWB enclosures. An option is to use double sided tape or an ELK-SWP3 structured wiring plate.
3. Connect one end of the 12 conductor ribbon cable into connector J1 on the M1RB.
4. Connect the other end of the 12 conductor cable to the control or expander. On a M1 or M1G Control the connector is marked J16. On a M1XOVR Output Expander the connector is marked J3. On a M1XOV there are two connectors, J3 and J4. J3 provides the 2nd group of 8 outputs while J4 provides the 1st group of 8 outputs.
5. Connect the relay contacts N/O, COM, or N/C to the devices that are being controlled.  
**CAUTION:** Always remember that the contacts are "dry" (no voltage) and can be used to switch both AC and DC voltage devices. Always calculate the current draw of the devices together with the M1's total system load before deciding to draw 12 Volts DC from the Control, especially true if connected to the Data Bus cabling. It is strongly recommended that an auxiliary power supply be installed at intervals along the Data Bus cabling to supplement the M1's power supply and prevent overloading.
6. Turn the M1 Master Power Switch On.
7. Assign the functionality to the new outputs using the Rules programming from the ELK-RP Software. There is no enrollment if the M1RB is plugged into J-16 of the main M1 Control. However, if plugged into a new Output Expander (M1XOV or M1XOVR), that expander must be assigned an address and be enrolled before any of the outputs can be used. Refer to the Output Expander instructions.

# Output Relay Board ELK-M1RB

### APPLICATION:

The **ELK-M1RB** works with an M1 or M1G Control, or with an M1XOV or M1XOVR Output Expander, for converting the low current (50mA) voltage outputs into SPDT relay outputs. When used with an M1 Control, the M1RB also provides voltage outputs 7 & 8, which are ordinarily not available. Up to 2 M1RBs may be connected to an M1XOV (voltage only) Output Expander.

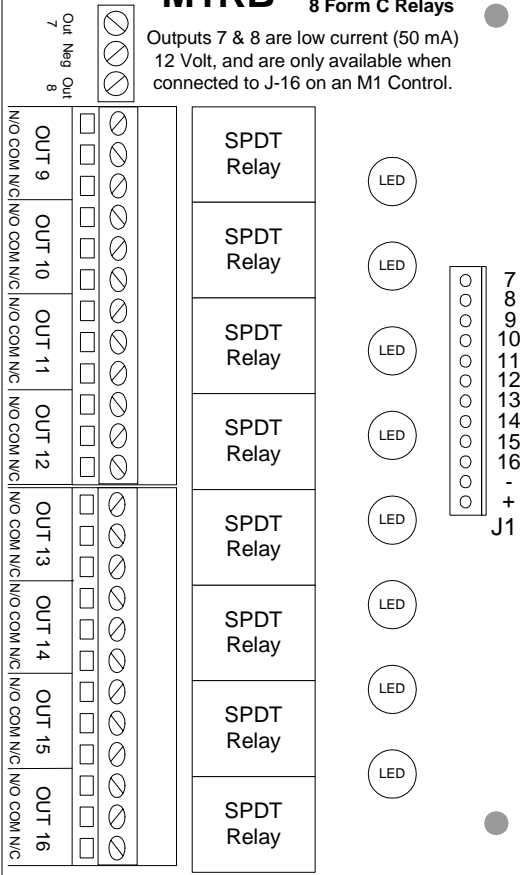


## Output Relay Board ELK-M1RB



### M1RB Output Relay Board 8 Form C Relays

Outputs 7 & 8 are low current (50 mA) 12 Volt, and are only available when connected to J-16 on an M1 Control.



### FEATURES:

- 8 Form "C" Relays, SPDT Dry Contact
- Heavy Duty Contact Rating
- Low Current Draw.
- Great For General Purpose Switching.
- Plug-in "Removable" Terminal Blocks
- LED Status Indicators on all 8 Relays
- Twelve (12) Conductor Plug-in Wire Harness
- Mounts in Enclosure using ELK-SWG Glides, SWP or SWP3 Structured Wire Plates, or Double Sided Foam Tape

### SPECIFICATIONS:

- Diode Protection Across Relay Coil.
- Contact Ratings:  
12 Amps @ 28 VDC, 125 VAC
- Wire Harness Length: 24"
- Operating Voltage: 12 Volts DC Nominal
- Current Draw: 0 mA idle, 250 mA Max.
- Size: 6" x 3.25" x .75" H

Features or Specifications subject to change without notice.

The relay output numbers are relative ONLY when connected to J-16 on an M1 Control. If connected to an Output Expander, the numbers must be mapped to the appropriate numbers of the expander.



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