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### Terminal Strip Definitions

**Door Input:** Use an isolated N/C door position contact for non-supervised door monitoring. Use an isolated N/C door position contact with two 1K OHM resistors connected as shown on the Back Plate View Diagram for supervised door monitoring. Opening this contact initiates the alarm sequences described below.

**Bypass Input:** Optional Input, not required for operation. Use an isolated N/O contact for remote alarm bypass control. This contact may come from a remote key switch, or from the access control system. Closing this contact bypasses the alarm sequences, shuts off the sounder, and opens the bypass status relay - RELAY1

**Request to Exit (REX) Input:** Optional Input, not required for operation. Use an isolated N/O or N/C contact to initiate the exit sequence described below. Field Option Jumper J4 controls the REX input. Install J4 at edge position for N/O operation, or if REX is not used (factory-installed position). Install J4 at inner position for N/C operation.

**Lock Voltage or Request to Enter Input:** Optional Input, not required for operation. Connect Lock + to pin 8, and connect Lock - to pin 7 for lock voltage monitoring. Field Option Jumper J5 controls the lock voltage input. Install J5 at edge position for fail secure lock operation or if the lock voltage input is not used (factory-installed position). Install J5 at inner position for fail-safe lock operation. Refer to Back Plate View diagram for lock monitoring connections.

**Relay 2: Forced Door & Held Alarm Relay Output.** N/C relay output opens when door is forced open (with Field Option Jumper J2 installed) or at the end of the Door Held Sequence.

**Relay 1: Bypass Status Relay Output.** N/C relay output opens when the bypass input or key switch is active.

**Power:** 12 - 24 VAC/VDC @ 250 ma.

### Field Option Jumpers

**J1 - Alarm Auto Reset Enable.** Install to enable alarm auto reset; remove to disable alarm auto reset.

**J2 - Forced Door Alarm Enable.** Install to enable forced door alarm; remove to disable forced door alarm.

**J3 - Door Supervision Enable.** Install to enable door supervision monitoring; remove to disable supervision.

**J4 - Request to Exit Select.** Jumper at edge position for N/O REX input or REX is not used (factory-installed position). Jumper at inner position for N/C REX input.

**J5 - Lock Voltage Select.** Jumper at edge position for fail secure lock input or if lock voltage is not used (factory-installed position). Jumper at inner position for fail-safe lock input.

### Time Delays

**Access Delay** 0 - 120 sec. This delay starts when the door is opened. The sounder is silent during this delay.

**Warning Delay** 0 - 120 sec. This delay starts when the door is held open past the access delay. The sounder pulsates during this delay. No alarm relay is activated during the Warning Alarm.

**Alarm Auto Reset Delay** 0 - 75. This delay starts after an alarm is generated and if the Field Option Jumper J1 is installed.

## Operational Definitions

**Armed** - Red LED is on, sounder is off, relays are normal. Opening the door starts alarm sequences.

**Bypass** - Key switch or remote bypass input is active. Green LED is on, sounder is off, relays are normal. Door may be opened indefinitely. Relay 1 is active.

**Request to Enter** - Green LED is on, sounder is off, relays are normal. Opening the door starts the Entry Door Sequence.

**Request to Exit** - Green LED is on, sounder is off, relays are normal. Opening the door starts the Exit Door Sequence.

**Access time** - Door is open, Red LED is on. Sounder is off, relays are normal. Closing the door resets the LDA to Armed. Holding the door open past the access delay starts the Warning Alarm.

**Warning Alarm** - Door is open, Red LED is on, sounder is pulsing, and relays are normal. Closing the door silences the sounder, and resets the LDA to Armed. Holding the door past the warning delay starts the Door Held Alarm.

**Door Held Alarms** - Door has been held open past the warning delay, Red LED is on, sounder is on, relay is active.

**Entry Alarm** - Door sequence was started with the lock voltage input. Relay 2 is active

**Exit Alarm** - Door sequence was started with the REX input. Relay 2 is active.

**Forced Door Alarm** - Field Option Jumper J2 is installed and the door was opened without a valid REX or lock voltage input. Red LED is on, sounder is on, relay 2 is active.

**Supervision Alarm** - Field Option Jumper J3 is installed and the door-input circuit is either cut or shorted. Both relays are active, and the sounder is on.

