

FEATURES

- Can provide service for up to 3000 system users and can store up to 8000 card, transmitter or digital PIN codes when ordered with 3000 MemPLUS chip set.
- System can be programmed via modem or RS-232 interface with the Remote Account Manager for Windows software included with the unit. Programming via RS-232 requires an additional cable that is not included with the unit (P/N 1818-040).
- Transaction buffer stores the last 8000 events and has its own backup power source to retain memory during power outages.
- 31-security levels total (security level 00 always denies entry, security level 01 always admits entry), with 29 programmable security levels, each with four time zones allows you to control and restrict user access as needed.
- Two internal relays allow the system to control two entry points.
- System can be expanded to control up to 16 entry points. Tracker expansion boards are required (one for each additional entry point) and are not included with the system. Tracker boards also provide output for door ajar and forced entry alarms.
- Optional elevator control board(s) can control up to four elevators with each elevator serving up to 64 floors.
- System will interface with selected models of DKS DoorKing vehicular gate operators to provide gate operator information and data (requires a Tracker board for each gate operator that is to send data to the system).

1.3.4 Elevator Control Terminals

TERMINAL	DESCRIPTION
1	DATA 1 – to elevator control board terminal 20.
2	DATA 0 – to elevator control board terminal 21.
3	COMMON – to elevator control board terminal 22.

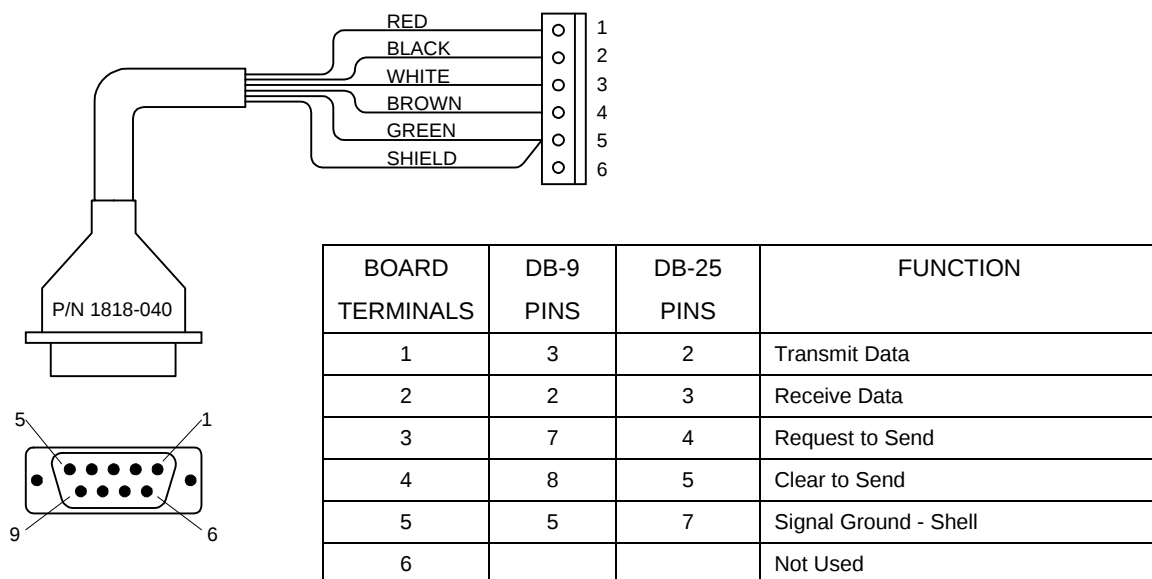
The elevator control terminals are used when the 2348-010 elevator control board is connected to the system to enable elevator control. Do not connect any other devices to these terminals.

Maximum wire run for elevator control data is 500 feet using Belden 9418 (4-conductor) or Belden 9931 (6-conductor) or equivalent. Do not use twisted pair with this format. Float the shield at the elevator control board. Do not connect the shield to the elevator board common.

If elevator control boards (2348-010) are being used with this system, refer to the Elevator Control Installation and Wiring manual (P/N 2348-065) that came with the elevator control boards, for detailed information on wiring these boards to the PC programmable telephone entry system.

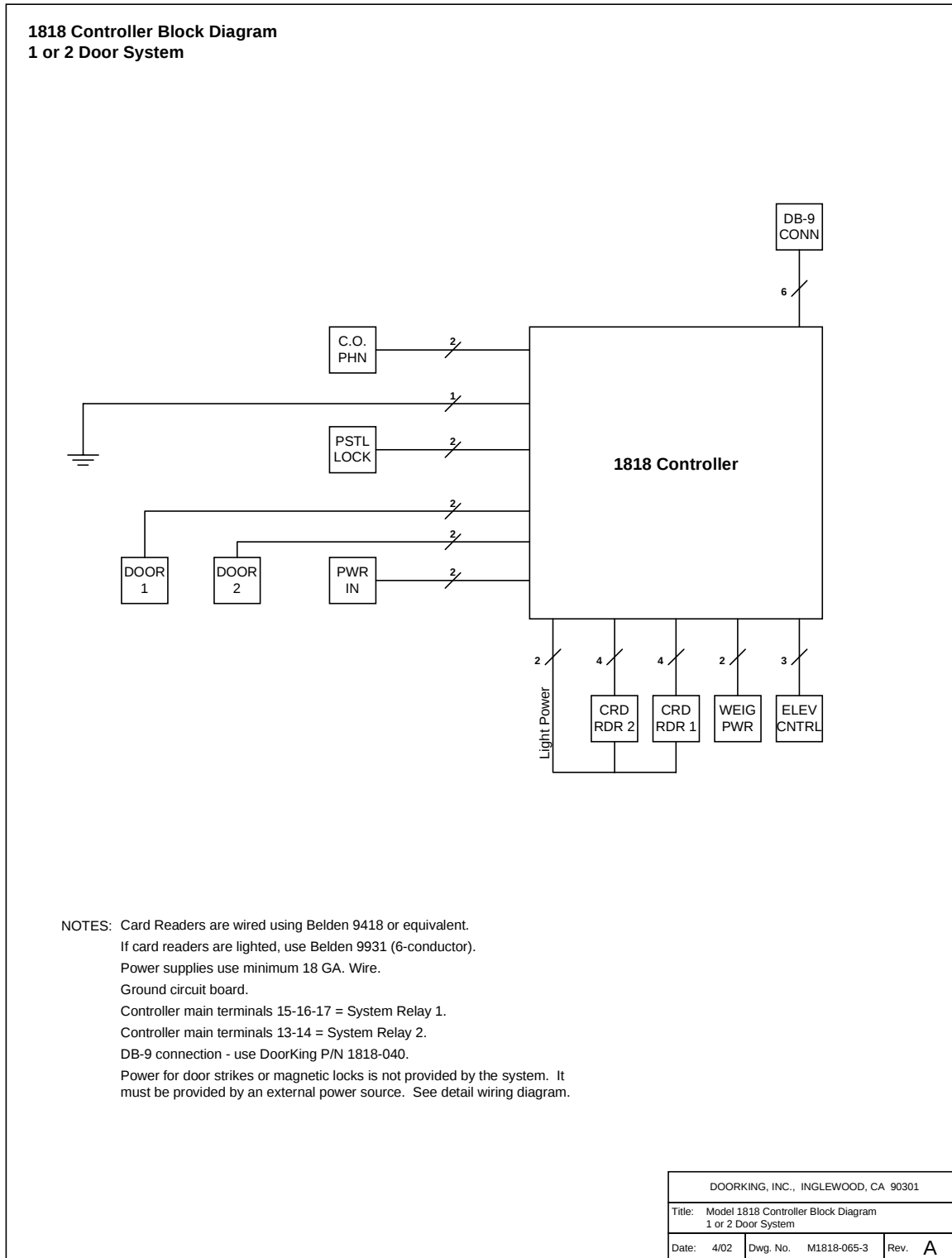
1.3.5 RS-232 Terminal

The PC programmable access control system may be programmed using the RS-232 serial communication terminal. This terminal allows a direct connection to a computer using a standard DB-9 serial connector on one end, and loose wires on the other that connect to the RS-232 terminals on the board. You can order a 6-foot cable from DoorKing (P/N 1818-040), or make your own using the wiring scheme shown below. A cross reference is also provided for a DB-25 connector.



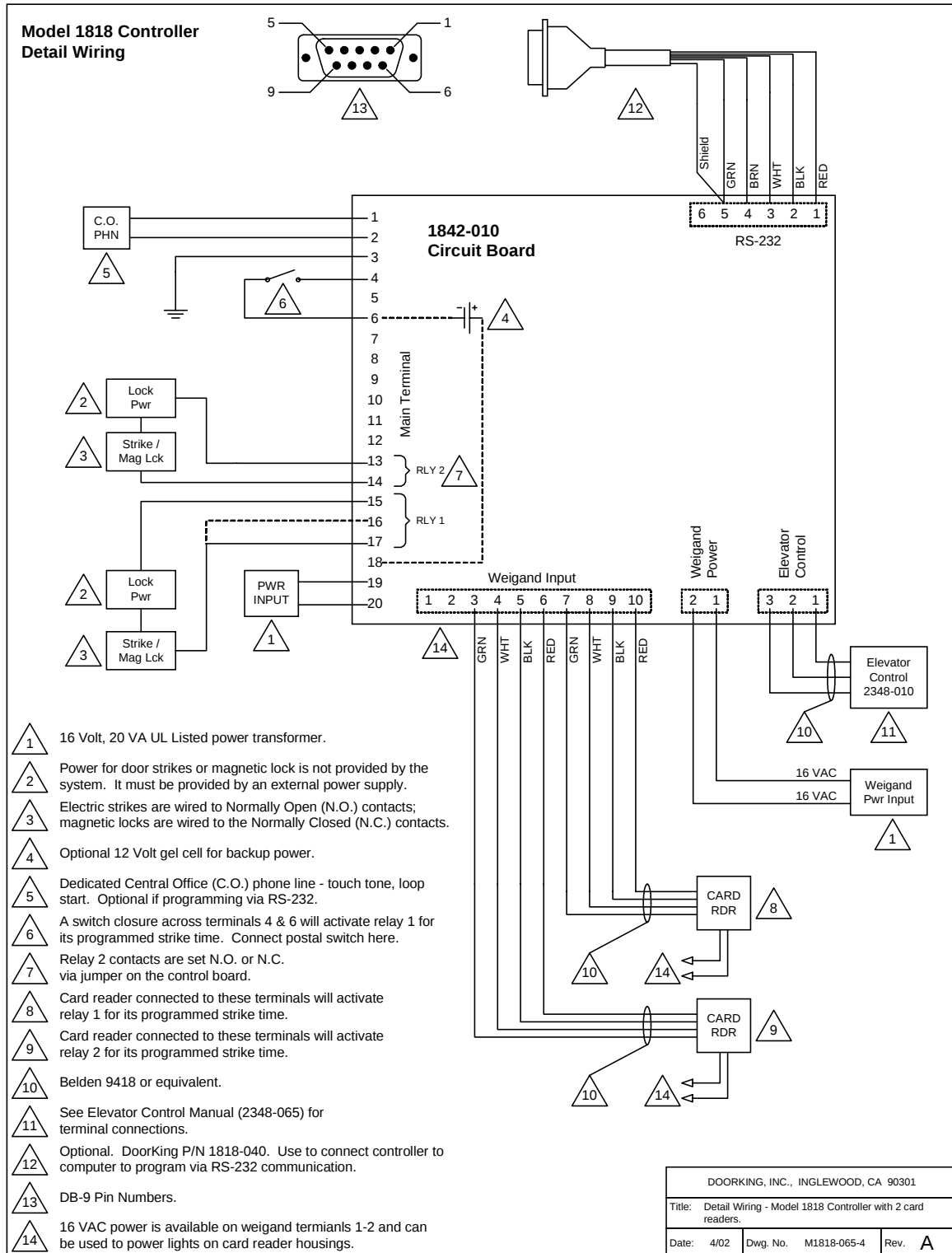
2.1 Block Diagram – 1 or 2 Door System

Use the block diagram below when using the 1818 access controller to control entry through 1 or 2 doors/gates. The numbers indicate the number of conductors required in the wire run to the specific component.



2.2 Detail Wiring – 1 or 2 Door System

Use this wiring diagram only if the 1818 controller is connected with one or two card readers. If additional card readers are to be connected to the system, proceed to the following pages detailing Tracker expansion board wiring.



SECTION 3 – PROGRAMMING

IMPORTANT! Many of the advanced features available with this access control system cannot be programmed from the system keypad. These features include relay hold open time zones, security levels, and elevator control options. If any of these features are used, the system must be programmed with the DoorKing Remote Account Manager for Windows software, VERSION 5.1. Refer to the software User's Manual for more information on these features.

We strongly suggest that you read these programming instructions in their entirety before beginning any programming of this access control system.

3.1 GENERAL PROGRAMMING INFORMATION

The DoorKing PC Programmable Access Control System is primarily programmed by using the DoorKing Remote Account Manager for Windows software and the user supplied PC by either RS-232 connection or by modem, however it can also be programmed from the keypad in the system. When programming from an off site location with a PC, the RING pin must be installed on the circuit board.

The PC programmable access control system has two relays on the circuit board, both of which are programmable for any function required. These relays are designated as Relay 1 (R-1), and Relay 2 (R-2). If Tracker expansion boards are used with this system, it is very important that you understand the function of these relays. If Tracker expansion boards are used with this system, R-1 and R-2 are designated as Tracker board command (CMD) relays with R-2 controlling tracker boards 1 through 8 (system relays 3-10), and R-1 controlling tracker boards 9 through 16 (system relays 11-18).

Refer to the Remote Account Manager User's Manual for more information on Tracker board relay numbering scheme and designations.

3.1.1 Programming with a PC

Prior to programming the system with a personal computer and the DoorKing Remote Account Manager for Windows software, there is certain information that you must know and must program into the system before the computer can communicate with the system. See page 24 to set-up the access control system for PC programming. Programming the system with a PC may be accomplished either by modem or by direct connection using the RS-232 communications terminal on the circuit board. Using the RS-232 communications terminal will require the use of a cable with a DB-9 connector on one end (DoorKing P/N 1818-040), and the DoorKing Remote Account Manager for Windows software VERSION 5.1.

3.1.2 Programming from the Keypad

Follow the programming instructions as described in each section of this manual. The system will prompt you with short tones (beep) when programming steps have been followed correctly, and with a long tone (beeeeeep) when the programming step is ended. It is highly recommended that you complete the user listing in the appendix prior to starting any programming from the keypad. This listing will provide you with the information needed to complete the manual programming sequence.

This symbol _ in the programming steps indicates numbers that you will need to enter, one number per symbol. When programming from the keypad, after each programming step is performed correctly, a short tone (beep) will be heard. When the programming session is ended, a long tone (beeeeeep) will be heard.

5.2 ACCESSORIES

Card Readers	A variety of AWID and HID proximity readers are available for use with the 1818 controller. Most 26-bit card readers will interface with the 1818 controller.
RF Devices	RF devices provide remote access control for vehicular gates. Use DoorKing MicroPLUS™ weigand receiver (P/N 8056-080) or DoorKing MicroCLIK weigand receiver (P/N 8059-080) and corresponding transmitters.
PROXmtr™	DoorKing PROXmtr's provide both RF access control and proximity card access control in a single, compact package. Requires a MicroPLUS weigand receiver and AWID or HID proximity card readers.
Digital Keypad	Provides a weigand output when users enter their f-digit PIN code. P/N 1815-050 and 1815-051.
Slave Keypad	Provides for use of 4-digit entry codes (P/N 1814-075).
Surge Suppressers	High voltage (115 V) suppresser. P/N 1878-076. Phone line suppresser. P/N 1878-077. Low voltage (28 V) suppresser. P/N 1878-078.
Telephone Test Set	Includes clips, cord and carrying case. P/N 1800-050.
Battery	12 volt .8 amp hour gel cell provides stand by power during power interruptions. P/N 1801-008.
Tracker Boards	Tracker expansion boards (P/N 2351-010) allow the system to operate up to sixteen individual doors or gates, provides door ajar and forced entry alarms, and can activate local and building alarm systems. Also allows DoorKing gate operators to report gate operator data and activity to the entry system.
RS-232 Cable	RS-232 cable with DB-9 connector on one end and wires on the other end. Use this cable to program the entry system from a PC using RS-232 communications instead of the modem. P/N 1818-040.
Elevator Board	Elevator control boards (P/N 2348-010) provide control of up to four elevators, with each elevator having a maximum of 64 floors.
Small Enclosure	Provides a weather resistant lockable enclosure for a single Tracker™ expansion board.
Large Enclosure	Provides a weather resistant lockable enclosure for up to four (4) Tracker™ expansion boards and includes convenience outlets for four (4) accessory transformers.