WIRELESS BASEBOARD KIT
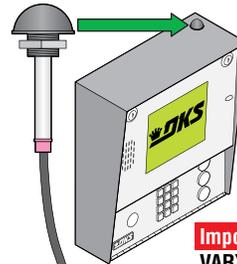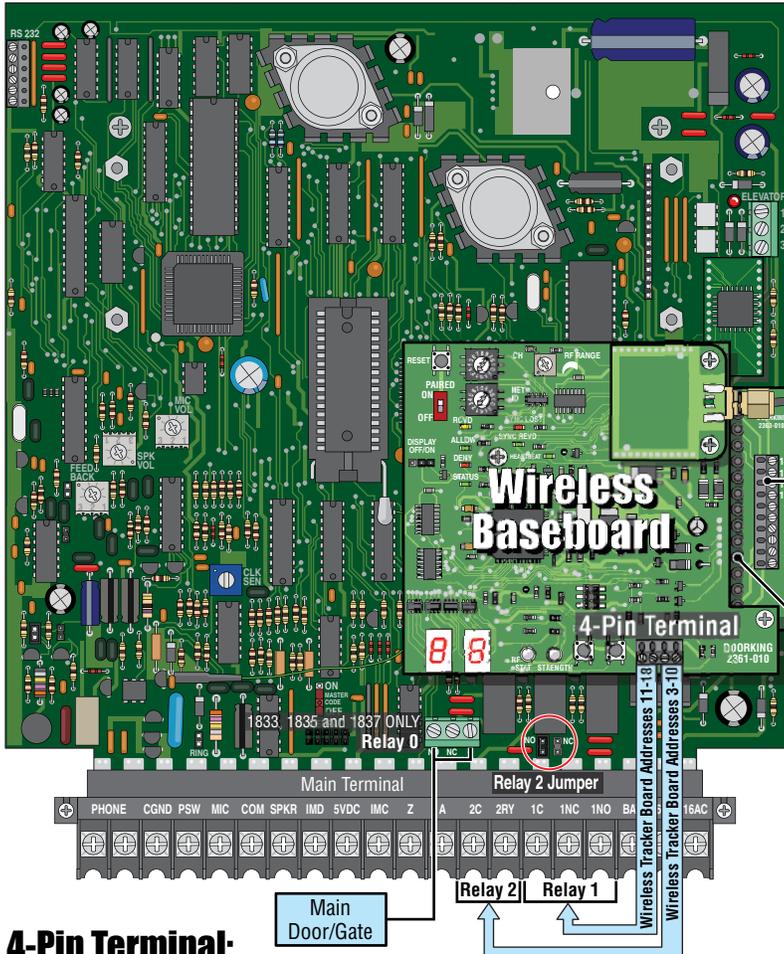
This wireless baseboard kit provides wireless communication from the access control system to a wireless tracker expansion board(s). Use this kit **ONLY** on DoorKing: 1833, 1835, 1837 and 1838 multi-door access controller access control systems.

Installation

The wireless baseboard **REPLACES** the 14-pin auxiliary terminal on the access control system's board. The existing 16.5 VAC, 20 VA access control system's input power transformer is **REQUIRED** and is rewired to the 10-pin terminal #1-#2. Antenna is **REQUIRED**, see below for antenna options.

DoorKing Access Control System Board

Wireless Baseboard

4-Pin Terminal

10-Pin Terminal

Power Transformer

1833, 1835 and 1837 ONLY
Relay 0

Relay 2 Jumper

Main Terminal

PHONE CGND PSW MIC COM SPKR IMD 5VDC IMC Z A 2C 2RY 1C 1NC 1NO BA 16AC

Wireless Tracker Board Addresses 11-18
Wireless Tracker Board Addresses 3-10

Main Door/Gate

Relay 2   Relay 1

14-Pin Auxiliary Terminal Connection

Cabinet Mounted Dome Antenna Included

(Vandal-resistant) The range is approximately 100 ft direct-line-of-sight. Install on top of the cabinet in the existing antenna mounting hole (remove plug).

Important Antenna Note: Antenna range **WILL VARY GREATLY** depending on individual setup (Antenna height above the ground, background signal interference, physical obstructions (trees, buildings etc.) and what antenna you choose). Adverse weather (rain) **CAN** also affect antenna range.

Externally Mounted Longer Range Adjustable Antenna Included

13 ft of cable

Range is approximately 500 ft direct-line-of-sight. Install antenna vertically as high as possible in free air above access control system.

Range testing is HIGHLY recommended before FINAL installation.

4-Pin Terminal:

Must connect to access control system's **Relay 2** for **wireless** tracker expansion board addresses **3-10**.

Must connect to access control system's **Relay 1** for **wireless** tracker expansion board addresses **11-18**.

Relay 2 (2C) Com
Relay 2 (2RY)
Relay 1 (1C) Com
Relay 1 (1NO)

Set relay 2 jumper for NO.

Note: Terminals can be removed from board for easy wiring.

10-Pin Terminal:
One 26-Bit wiegand access control device (card reader) or up to 8 tracker expansion board addresses 11-18 (**NOT** wireless) may be **HARD** wired to the 10-pin terminal (#11-12-13-14) for Gate/Door control if desired (**DO NOT** connect **HARD**wired tracker expansion boards or card reader to wiegand 1 (terminals 11-14) if **WIRELESS** boards will be using wiegand 1). The wiegand 1 input will activate whatever is wired to the access control system's Relay 1 for the access control system's programmed strike time.

14) +12 VDC Power
13) Common
12) DATA 1
11) DATA 0
6) 16 VAC Output
5) 16 VAC Output
4) Back-up Battery-NEG
3) Back-up Battery-POS
2) 16.5 VAC Input Power – 20 VA
1) 16.5 VAC Input Power – 20 VA

18 AWG 100 ft max
16 AWG 200 ft max

16.5 VAC 20 VA

Wire polarity does not matter

Optional - Wiegand 1 HARDWIRE input: activates **Relay 1** for the access control system's programmed strike time.
Note: NOT available when using **wireless** tracker expansion board addresses 11-18.

Optional - Additional power for card readers that use lighting for outdoor use.

Optional - maintains ONLY wiegand operation during power outage.

REQUIRED

(Powers RS-232, elevator control, wiegand and wireless baseboard)

Other Antenna Options

Cabinet Mounted Longer Range Fixed Antenna Kit
Sold separately
Kit P/N: 1514-008
Range is approximately 200 ft direct-line-of-sight. Install on top of the cabinet. **NOT** vandal-resistant.
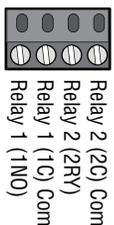
Wireless Repeater
Sold separately P/N 2364-080
The range is approximately 500 ft direct-line-of-sight with no signal interference or physical obstructions. May be necessary to increase the wireless communication range between the access control system and the tracker expansion board(s). See Repeater kit instruction sheet for more information.
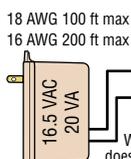
Baseboard Reference

See "**Wireless System Layout and Start-Up Procedure**" for system layout limitations, checking and adjusting RF range of the baseboard.

CH

NET ID

Important
All tracker expansion boards and repeaters **MUST** be set to **SAME** ID number and channel number as the wireless baseboard.

RF Range Adjustment
Set to max (full clockwise) for most applications. This may need to be dialed back to limit the range when using a repeater.

RF Stat LED
UNPAIRED MODE:
Steady Red – Board **is** communicating with at least one **unpaired** tracker expansion board.
Blinking Red – Board is **NOT** communicating with **ANY unpaired** tracker expansion board.
PAIRED MODE:
Steady Green - Board **is** communicating with at least one **paired** tracker expansion board.
Blinking Green - Board is **NOT** communicating with **ANY paired** tracker expansion board.

RESET Button - Press to reboot baseboard **ONLY**, will not reset access control board.

ON - Only accepts card codes from **PAIRED** tracker boards.

OFF - **Normal Setting** - Allows card codes from paired or unpaired tracker boards.

Paired Switch
ON
OFF

RF Strength LED:
Updated every time a **SYNC REVD** signal is received.
Green - Strong signal - **Normal**
Yellow - Marginal signal - May lose communication.
Red - Poor signal - Unreliable

Antenna is **REQUIRED**.

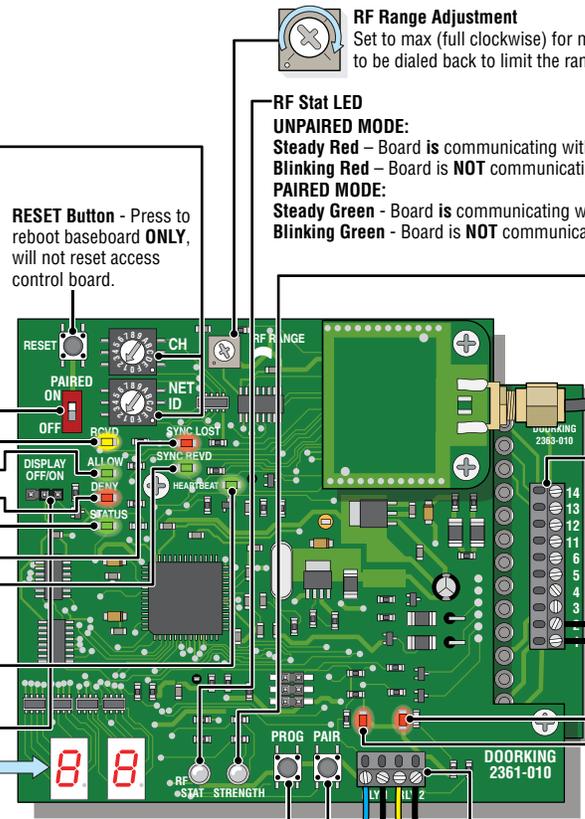**Normal Data Communication**
ON - Card code received - **RECD**
ON -Card code allowed - **ALLOW**
ON -Card code denied - **DENY**
Not used - **STATUS**
ON - Communication lost - **SYNC LOST**
SYNC REVD:
Blinking - receiving communication from a tracker board or repeater.

(Board Power Monitoring) **HEARTBEAT**
Blinking - **Normal**

10-Pin Terminal
See previous page for terminal description.

Power Transformer
Connect Existing Auxiliary Terminal Access Control System Power

16.5 VAC 20 VA

REQUIRED
polarity does not matter.
18 AWG 100 ft max
16 AWG 200 ft max

Access Control System Relays LEDs
ON - Relay 2 Activated
ON - Relay 1 Activated

LED Display
Jumper set on **RIGHT** side turns display **ON**. (factory set) **MUST** be **ON** to show RF range and strength.

Jumper set on **LEFT** side turns display **OFF**. (50% board power savings when **OFF**)

Program Button - Press after adjustment has been made to the **RF RANGE, RF ID** or **RF CHANNEL** before changes will take effect.

Relay 1
Relay 2

4-Pin Terminal
See previous page for terminal description.
Wires go to main terminal relays on access control system board.

PAIR Button - Press and hold 3 sec., **SYNC REVD** LED rapidly blinks blue. This puts wireless baseboard into "Search Mode" to **PAIR** with all tracker expansion boards.

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices are used in a normal manner with a well-constructed network, DoorKing wireless products should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. DoorKing, Inc. accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using DoorKing wireless products, or for failure of DoorKing wireless products to transmit or receive such data.

Safety and Hazards

Do not operate DoorKing wireless products in areas where cellular modems are not advised without proper device certifications. These areas include environments where cellular radio can interfere such as explosive atmospheres, medical equipment, or any other equipment which may be susceptible to any form of radio interference. DoorKing wireless products can transmit signals that could interfere with this equipment. Do not operate DoorKing wireless products in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, DoorKing wireless products **MUST BE POWERED OFF.** When operating, DoorKing wireless products can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. DoorKing wireless products may be used at this time.

The driver or operator of any vehicle should not operate DoorKing wireless products while in control of a moving vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some states and provinces, operating such communications devices while in control of a vehicle is an offence.

DKS DOORKING

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