MODEL 8056 MicroPLUS® RF RECEIVER (WIEGAND)

The model 8056 is a **High Security Encrypted "Rotating Code" RF Receiver** that will output Micro**PLUS**® transmitter codes **ONLY** to a Wiegand controller in 26, 30 or 31-bit Wiegand format. The encrypted "Rotating Code" programming in this receiver and the companion Micro**PLUS**® transmitters prevent copied transmitter codes from being used again to access a controlled entry point. The 8056 receiver can handle up to 5300 Micro**PLUS**® transmitter codes.

The Micro**PLUS**® transmitter codes that the receiver will respond to can also be defined by **"Facility Codes"**, and **"Transmitter Button Codes"**. In Wiegand output mode, you have the option to decide if you want the receiver to match **"Facility Code"** or ignore it.

P/N 8069-080   P/N 8070-080   P/N 8071-080

Use **ONLY** Micro**PLUS**® Transmitters

At least one Micro**PLUS**® transmitter **must** be programmed into the receiver memory to establish the **"Facility Code"** and **"Transmitter Button Code"** with the Wiegand controller. All additional Micro**PLUS**® transmitters will automatically be **"Learned"** into the receiver memory the **FIRST** time they are activated.

Installation

This receiver is **NOT** designed to be installed outdoors without being protected from the weather. An outdoor enclosure is available for the receiver if required (P/N 8057-110 - Metal Outdoor Box).

Install the 8056 receiver in a location so the antenna is **NOT surrounded by metal and is in free air as high as possible above the ground.** A longer Coax Antenna kit is available for the receiver if required (P/N 1514-073 - Includes antenna, mounting "L" bracket and 15 feet of coax cable). An antenna amplifier kit (P/N 8058-080) or a Yagi directional antenna kit (P/N 1514-072) is also available for the receiver if required.

The **Programming LED** on the side of the case will blink as RF energy is received. If the programming LED blinks or is on continuously, this indicates that there may be interference on the frequency (318 MHz) and short range may be the result. If this happens, try relocating the receiver or remove the source of interference. An antenna amplifier or a directional antenna may be needed. **Note:** Loop detectors and proximity card readers can cause receiver interference.

Be sure the antenna, coax shield and F connector are completely isolated from the ground.

Removable receiver terminal for easy wiring.
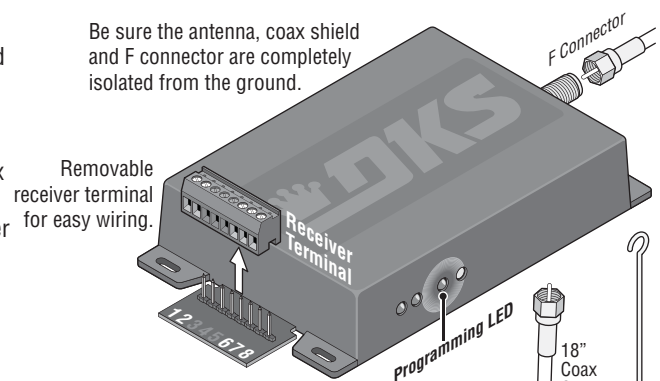
#1 - Input Power Common (Negative)
#2 - Input Power 12-24 Volt AC, 12-24 Volt DC (Positive)
#3 - Not Used
#4 - Not Used
#5 - Not Used
#6 - Wiegand Common
#7 - Wiegand Data 0
#8 - Wiegand Data 1

18" Coax Cable

Coax Antenna Kit (Included)

Receiver Terminal Wiring

12-24 Volt Transformer
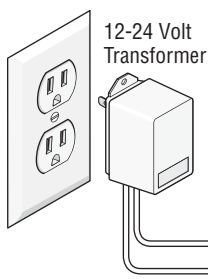
Separate Power Source: Connect 12 - 24 Volt AC or DC power to terminals #1 and #2. Use minimum 18 AWG wire to power the receiver.

- If DC power is used (Transformer): Terminal #1 is **NEGATIVE** and terminal #2 is **POSITIVE**.
- Power can be supplied to the receiver by the Wiegand controller instead of a separate power source (See below).

⚠ **DC Polarity Matters!**
▷ **To Receiver Terminal #1 (Neg.)**
▷ **To Receiver Terminal #2 (Pos.)**

Wiegand Controller Wiring:

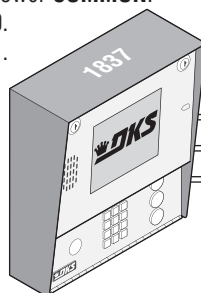Receiver terminal #2 is **INPUT POWER** (12-24 V).
Receiver terminal #6 is Wiegand input power **COMMON**.
Receiver terminal #7 is Wiegand **DATA 0**.
Receiver terminal #8 is Wiegand **DATA 1**.
Use 22 AWG **shielded** wire, maximum **200 feet**, for Wiegand controller wiring. Connect these terminals to the corresponding terminals on the Wiegand controller. Refer to the DoorKing Wiegand controller installation manual 1835, 1837 or 1838 for specific wiring information.

From "Circuit Board" Power → **To Receiver Terminal #2**
From "Low Voltage Common" → **To Receiver Terminal #6**
From "Data 0" → **To Receiver Terminal #7**
From "Data 1" → **To Receiver Terminal #8**

DKS
DOORKING®, INC.
120 Glasgow Avenue
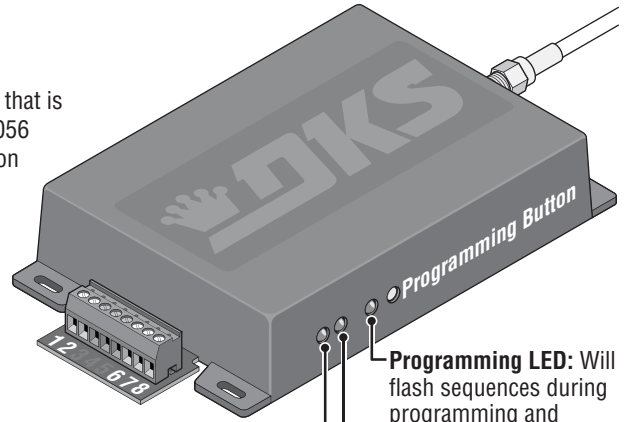Inglewood, California 90301 U.S.A.

How Receiver Functions

The 8056 receiver responds to the Micro**PLUS**® transmitter's **"Transmitter Code"** that is defined by **"Transmitter Button Codes" and "Facility Codes".** For example: an 8056 receiver can be programmed to respond to only the first button on a multiple button Micro**PLUS**® transmitter while a second 8059 receiver can be programmed to respond to only the second button of the same multiple button Micro**PLUS**® transmitter. Thus allowing a single multiple button Micro**PLUS**® transmitter to activate **two different receivers** without fear of both receivers responding to the same transmitter code.

In Wiegand output mode, you have the option of having the receiver match or ignore the facility code to allow the receiver to activate. One receiver can be programmed to respond to a specific facility code while another receiver can be programmed for a different facility code.
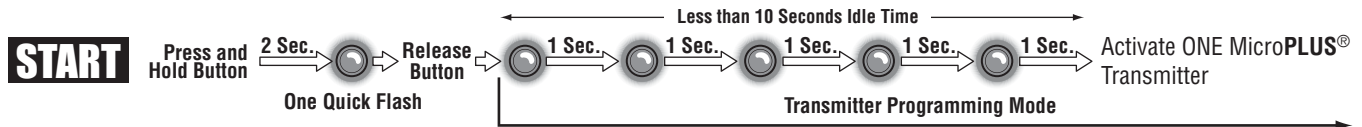
Programming LED: Will flash sequences during programming and flashes during normal operation or frequency interference.

Wiegand LED's: Will blink as Wiegand data is being transmitted.

There are seven receiver programming functions:
1. Programming ONLY the FIRST Transmitter
2. 26-bit Wiegand Programming (Factory Setting)
3. 30-bit Wiegand Programming
4. 31-bit Wiegand Programming
5. Match Facility Code Programming
6. Ignore Facility Code Programming
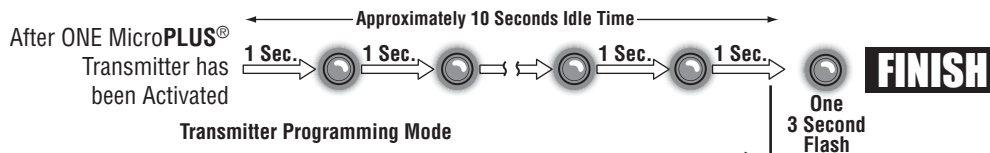**7.** Erase ALL Transmitter Codes

1. Programming ONLY the FIRST Transmitter

Press and hold the Programming Button until the programming LED quickly flashes ONE time (about 2 seconds), then release the button. The programming LED will flash once every second indicating that you are in the transmitter programming mode....

START → Press and Hold Button → 2 Sec. → One Quick Flash → Release Button → 1 Sec. → 1 Sec. → 1 Sec. → 1 Sec. → 1 Sec. → Activate ONE Micro**PLUS**® Transmitter

Less than 10 Seconds Idle Time

Transmitter Programming Mode

....While the programming LED is flashing, activate **ONE** Micro**PLUS**® transmitter that will be used (If you are using a two or three button transmitter, make sure to press the correct button). There are three (3) different **"2-Button"** Micro**PLUS**® transmitter button combinations that each receiver can be programmed to respond to: button-1, button-2 and buttons 1&2 pressed at the same time. There are six (6) different **"3-Button"** Micro**PLUS**® transmitter button combinations that each receiver can be programmed to respond to: button-1, button-2, button-3, buttons 1&2 pressed at the same time, buttons 2&3 pressed at the same time and buttons 1&3 pressed at the same time.

Once the ONE transmitter code has been stored into the receiver memory, the receiver will automatically exit the programming mode (approx. 10 seconds idle time). The programming LED will come on for 3 seconds and then go out.

After ONE Micro**PLUS**® Transmitter has been Activated → 1 Sec. → 1 Sec. → 1 Sec. → 1 Sec. → One 3 Second Flash → **FINISH**

Approximately 10 Seconds Idle Time

Transmitter Programming Mode

The "Facility Code" and "Transmitter Button Code" have been established for the receiver.

All additional transmitters can automatically be added by simply activating them. Press the appropriate transmitter button(s) on the new transmitter **TWICE** to "register" then "activate" the controlled entry point. After that, it will function normally with a single press of the button(s). **A maximum of 5300 transmitters codes can be stored in this receiver.** Each button or combination of buttons pressed is counted as ONE transmitter code.

2. 26-bit Wiegand Programming

Press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. The programming LED will flash once for 3 seconds indicating that the receiver is in 26-bit Wiegand output mode.

Press and Hold Button → One Flash → Two → Release Button → One 3 Second Flash

← Approximately 4 Sec. →
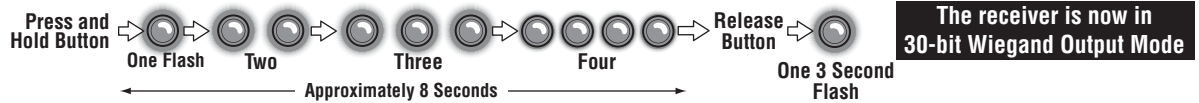
The receiver is now in 26-bit Wiegand Output Mode

3. 30-bit Wiegand Programming

Press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. The programming LED will flash once for 3 seconds indicating that the receiver is in 30-bit Wiegand output mode.

Press and Hold Button → One Flash → Two → Three → Four → **Release Button** → One 3 Second Flash

Approximately 8 Seconds

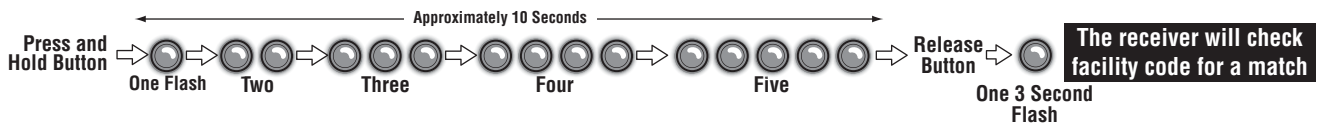**The receiver is now in 30-bit Wiegand Output Mode**

4. 31-bit Wiegand Programming

Press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. The programming LED will flash once for 3 seconds indicating that the receiver is in 31-bit Wiegand output mode.
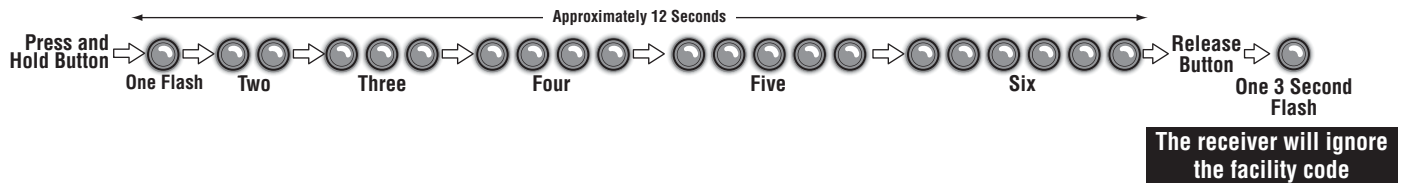
Press and Hold Button → One Flash → Two → Three → **Release Button** → One 3 Second Flash

Approximately 6 Seconds

The receiver is now in 31-bit Wiegand Output Mode

5. Match Facility Code Programming

Press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. The programming LED will flash once for 3 seconds indicating the receiver will check the facility code for a match before outputting the transmitter code.

Approximately 10 Seconds

Press and Hold Button → One Flash → Two → Three → Four → Five → **Release Button** → One 3 Second Flash

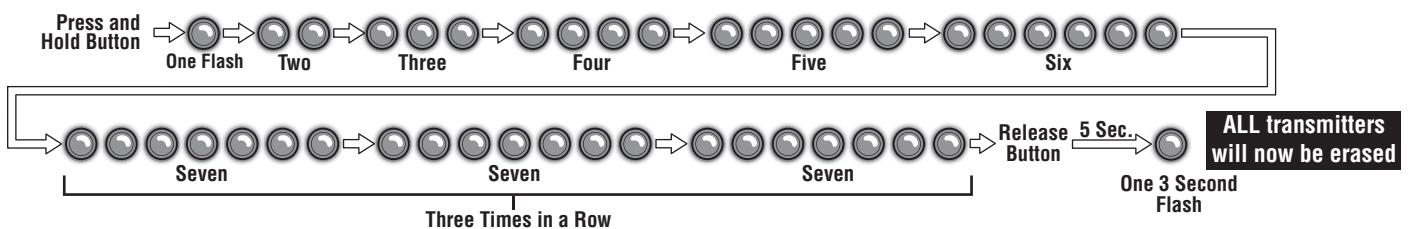**The receiver will check facility code for a match**

6. Ignore Facility Code Programming

Press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. The programming LED will flash once for 3 seconds indicating the receiver will ignore the facility code. Note: 26-bit requires a Facility Code match to activate the receiver.

Approximately 12 Seconds

Press and Hold Button → One Flash → Two → Three → Four → Five → Six → **Release Button** → One 3 Second Flash

The receiver will ignore the facility code

7. Erase ALL Transmitter Codes

When memory is full, a long flash will activate when trying to program a new transmitter. To erase memory, press and hold the Programming Button and follow the flashing LED sequence as shown below, then release the button. This will erase **ALL** transmitter codes.

Press and Hold Button → One Flash → Two → Three → Four → Five → Six →

→ Seven → Seven → Seven → **Release Button** 5 Sec. → One 3 Second Flash

Three Times in a Row

ALL transmitters will now be erased

WARNING: Deleted transmitter codes **CANNOT** be retrieved.

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