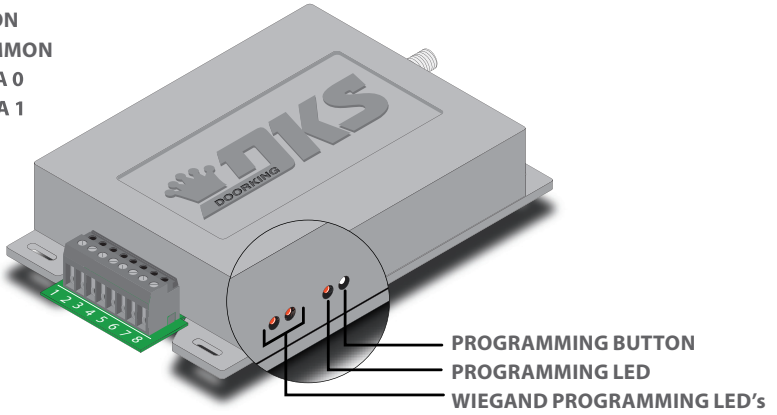8059 RF receiver • users guide))))

DoorKing's 8059 receivers can be used as stand-alone or Wiegand applications. Stand-alone applications can store up to 80 MicroCLIK transmitter codes activating its internal relay when a valid transmitter code is received. Wiegand applications will output transmitter codes in Wiegand format to an external Wiegand controller.

1. **INPUT POWER COMMON**
2. **INPUT POWER 12-24 VOLT AC or DC**
3. **RELAY NORMALLY OPEN**
4. **RELAY NORMALLY CLOSED**
5. **RELAY COMMON**
6. **WIEGAND COMMON**
7. **WIEGAND DATA 0**
8. **WIEGAND DATA 1**

PROGRAMMING BUTTON
PROGRAMMING LED
WIEGAND PROGRAMMING LED's

Receiver Programming

The 8059 receiver responds to transmitter codes defined by facility codes and button numbers. The receiver can be programmed to respond only to button 1 while a second receiver can be programmed to respond only to button 2. A two (2) button transmitter can activate two (2) different receivers without fear of both receivers responding to the same transmitter code and button. Like wise one receiver can be programmed to respond to a specific facility code while another can be programmed for a different facility code. In Wiegand output mode, you have the option to decide if you want the receiver to match facility codes or not.

The receiver has seven programming functions:

1. Master Transmitter Programming
2. Transmitter Prgramming
3. 26-bit Wiegand Prgramming
4. 31-bit Wiegand Prgramming
5. Facility Code Match Prgramming
6. No Facility Code Match Prgramming
7. Memory Erase.

Installation

Install the 8059 receiver in a location where the antenna is not surrounded by metal. For better reception, when mounting the antenna use a coax antenna kit and amplifier (Coax Antenna Kit p/n 8060-074, Antenna Amplifier p/n 8058-080). The 8059 receiver is not designed to be installed outdoors, for outdoor installation an enclosure is required (Outdoor Enclosure p/n 8057-110).

IMPORTANT:

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

- When troubleshooting, two (2) Wiegand output LED's are provided on the side of the receiver case. These LED's will blink as Wiegand data is being transmitted.

Stand-Alone Wiring

1. Connect 12-24 Volt AC or DC power to terminals 1 and 2. If DC power is used, terminal 1 is NEGATIVE and terminal 2 is POSITVE. Use minimum18 AWG wire to power the receiver.

2. Connect the receiver relay contacts to the device to be activated. Terminal 3 is NORMALLY OPEN (N.O.), terminal 4 is NORMALLY CLOSED (N.C.) and terminal 5 is COMMON (C). Use 18 AWG wire to connect the receiver relay contacts to the operating device.

Wiegand Wiring

Terminal 2 is INPUT POWER (12-24 V), terminal 6 is Wiegand COMMON, terminal 7 is Wiegand DATA 0, and terminal 8 is Wiegand DATA 1. Use 22 AWG shielded wire, maximum 200 feet, for Wiegand wiring. Connect these terminals to the corresponding terminals on the Wiegand controller. Refer to the Wiegand controller installation manual 1815, 1817 or 1818 for detailed wiring information.

Master Transmitter Programming

The 8059 receiver master transmitter fuction allows you to program up to 4 (four) master transmitters. When a "Master Transmitter" is activated, the receiver will automatically go into learn mode allowing additional transmitters to be programmed into the receiver memory.

NOTE:

● Master transmitters are not intended to be used as regular transmitters. Keep all master transmitters in a safe place.

Press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀ ☀☀☀ ☀☀☀☀ ☀☀☀☀ ☀☀☀☀ ☀☀☀☀☀ ☀☀☀☀☀☀
1   2   3   4   4   4   5   6
☀☀☀☀☀☀☀ ☀☀☀☀☀☀☀☀
      7   8

The receiver is now in master transmitter program mode. Select a transmitter to designate as a master transmitter press the button; the button, facility code and transmitter number are programmed into the receiver as a master transmitter. The button, facility code and transmitter number must match in order to put the receiver into the regular learn mode.

Transmitter Programming

1. Press and hold the receiver programming button or the "Master Transmitter" button until the programming LED flashes once (about 2 seconds), and release. The programming LED will flash once every second indicating that you are in the transmitter programming mode.

2. While the programming LED is flashing, activate the transmitter(s) so that the receiver can record the transmitter code(s) into memory. A maximum of 80 transmitter codes can be stored in the receiver memory.

3. When all the transmitter have been programmed, wait ten (10) seconds, the programming LED will come on for three (3) seconds and then go out indicating that the programming sequence has ended.

Wiegand Programming

At least one transmitter code must be programmed into the receiver memory, allowing the receiver to respond to the facility code and transmitter button that will be used. This step is necessary so that the receiver knows which button to respond to. For example, if a two (2) button transmitter code is programmed into the receiver using button 2, the receiver will only respond to transmitter codes initiated by button 2. To have a receiver respond to both buttons, you can program the transmitter code into the receiver twice, using button 1 and 2. If using more than one facility code, or if the receiver is to respond to different transmitter buttons, simply program additional transmitters, refer to Stand-Alone Programming.

NOTE:

● The factory setting is for 26-bit and requires a facility code match. You need to program a transmitter into the receiver, refer to Stand-Alone Programming.

● Receivers manufactured prior 11/98 (board program chip REC 2) do not have the programming capability to ignore facility codes. These receivers will always check the facility code.

26 bit Wiegand Programming

Press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀
 1   2

for approxamately 4 seconds and release. The programming LED will come on for (3) three seconds indicating that the receiver is in 26-bit Wiegand output mode.

31 bit Wiegand Programming

Press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀   ☀☀☀
 1   2   3

for approxamately 6 seconds and release. The programming LED will come on for (3) three seconds indicating that the receiver is in the 31-bit Wiegand output mode.

Facility Code Match Programming

Press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀   ☀☀☀   ☀☀☀☀   ☀☀☀☀   ☀☀☀☀   ☀☀☀☀☀
 1   2   3   4   4   4   5

for approxamately 10 seconds and release. The programming LED will come on for three (3) seconds indicating that the receiver will check the facility code for a match before outputting the transmitter code.

No Facility Code Match Programming

Press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀   ☀☀☀   ☀☀☀☀   ☀☀☀☀   ☀☀☀☀   ☀☀☀☀☀   ☀☀☀☀☀☀
 1   2   3   4   4   4   5   6

for approxamately 12 seconds and release. The programming LED will come on for three (3) seconds indicating that the receiver will ignore facility codes.

Memory Erase

When the memory is full, a long flash will activate when trying to program a new transmitter. To erase the memory press and hold the receiver programming button and follow the flashing LED sequence as shown.

☀   ☀☀   ☀☀☀   ☀☀☀☀   ☀☀☀☀   ☀☀☀☀
 1   2   3   4   4   4

This will erase all regular and master transmitters.