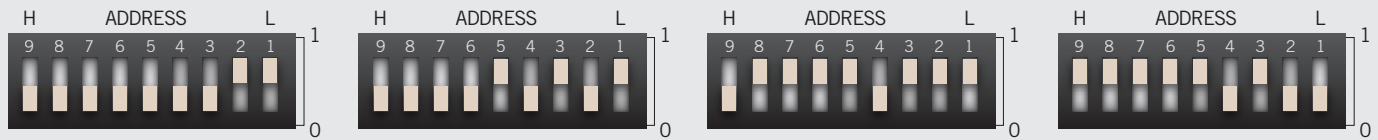# REFERENCE DOCUMENT
# RANGER® EDGE RECEIVER CONFIGURATION

The Ranger Edge Receiver, a unique member of the Ranger line of long-range Receivers, offers single location point of control with all set-up and configuration done directly on the unit, eliminating the requirement for separate mobile smartphone or PC programming devices.

The Edge Receiver offers 512 separate enrollment locations, ranging from zero to 511. Each enrollment location may store a unique credential, such as a Transmitter—or with the addition of a Wiegand-output reader, a card or tag. Dip switch positions 1 thru 9 of the 12-Position Slide Style Dip Switch are used to select specific individual enrollment locations. Each specific selection represents a binary number. Below are examples of individual enrollment locations, along with their equivalent binary and decimal number representations.

EXAMPLES:



**A. Enrollment Location 3**
Set dip switches 3, 4, 5, 6, 7, 8 and 9 to the 0-position, and dip switches 1 and 2 to the 1-position. (000000011 binary, 3 decimal)

**B. Enrollment Location 21**
Set dip switches 2, 4, 6, 7, 8 and 9 to the 0-position, and dip switches 1, 3 and 5 to the 1-position. (000010101 binary, 21 decimal)

**C. Enrollment Location 247**
Set dip switches 4 and 9 to the 0-position, and dip switches 1, 2, 3, 5, 6, 7 and 8 to the 1-position. (011110111 binary, 247 decimal)
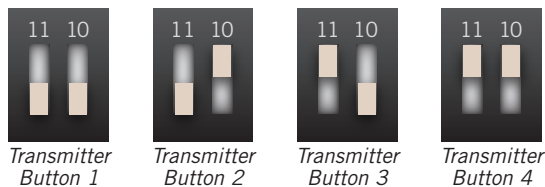
**D. Enrollment Location 500**
Set dip switches 1, 2 and 4 to the 0-position, and dip switches 3, 5, 6, 7, 8 and 9 to the 1-position. (111110100 binary, 500 decimal)

Enrollment locations and their equivalent dip switch settings can be confirmed and documented on the **Credential Location Worksheet**.

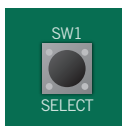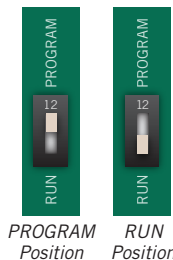*The dip switches are set to the 0-position by default.*

## 1.0 Selecting Transmitter Button To Operate Relay
Dip switches 10 and 11 select which button on a Transmitter will operate the relay (see below). It is only possible to select a single Transmitter button per Edge Receiver (Button 1, 2, 3 or 4). The button selected for relay operation will be the same for all Transmitters enrolled in that specific Edge Receiver.



*Transmitter Button 1*  *Transmitter Button 2*  *Transmitter Button 3*  *Transmitter Button 4*

## 2.0 Enrolling Transmitters
1. Move dip switch 12 to the Program position. The Program/Run LED will change from off to red.
2. Use dip switches 10 and 11 to select the button on a Transmitter that will operate the relay.
3. Use dip switches 1 through 9 to select the enrollment location of the Transmitter.
4. Press the Select Button once. The Status LED will change from yellow to blue.
5. Within range of the Edge Receiver, press the selected button on the Transmitter to be enrolled. The Status LED will change from blue to yellow.
6. To enroll additional Transmitters, repeat 3, 4 and 5.



*PROGRAM Position*  *RUN Position*



*Select Button*

7. To finish enrolling, move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
8. To test enrollment of an enrolled Transmitter, press the selected Transmitter button. The Status LED and Relay LED will turn green for the active relay time.

## 3.0 Deleting Transmitters
1. Move dip switch 12 to the Program position. The Program/Run LED will change from off to red.
2. Use dip switches 1 through 9 to select the desired enrollment location of the Transmitter to be deleted.
3. Press the Select Button twice in succession. The Status LED will change from yellow to blue then red.
4. To delete additional enrolled Transmitters, repeat 2 and 3.
5. To finish deleting, move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
6. To test deletion of a previously enrolled Transmitter press the Transmitter button that had been deleted. The Status LED will change from yellow to red.

## 4.0 Enrolling Credentials
1. Connect a reader supporting the credentials to be enrolled via the Wiegand interface.
2. Move dip switch 12 to the Program position. The Program/Run LED will change from off to red.
3. Use dip switches 1 through 9 to select the enrollment location of the credential.
4. Press the Select Button once. The Status LED will change from yellow to blue.

5. Present the credential to the reader. Once read by the reader the Status LED will change from blue to yellow.
6. To enroll additional credentials, repeat 3, 4 and 5.
7. To finish enrolling, move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
8. To test enrollment of an enrolled credential, present the credential to the reader. The Status LED and Relay LED will turn green for the active relay time.
9. Note dip switches 10 and 11, used to select Transmitter button, are ignored when utilizing a reader connected via the Wiegand interface.

### 5.0 Deleting Credentials
1. Move dip switch 12 to the Program position. The Program/Run LED will change from off to red.
2. Use dip switches 1 through 9 to select the desired enrollment location of the credential to be deleted.
3. Press the Select Button twice in succession. The Status LED will change from yellow to blue then red.
4. To delete additional enrolled credentials, repeat 2 and 3.
5. To finish deleting, move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
6. To test deletion of a previously enrolled credential present the credential to the reader connected via the Wiegand interface. The Status LED will change from yellow to red.

### 6.0 Deleting All Transmitters and Credentials
1. Move dip switch 12 to the Program position. The Program/Run LED will change from off to red.
2. Set dip switches 1 through 9 to the '1' position (enrollment location 511).
3. Press the Select Button twice in succession. The Status LED will change from yellow to blue then red.
4. To finish deleting, move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
5. To test deletion of a previously enrolled Transmitter press the Transmitter button that had been selected. The Status LED will change from yellow to red.
6. To test deletion of a previously enrolled credential present the credential to the reader. The Status LED will change from yellow to red.

### 7.0 Adjusting Relay Activation Time
1. Move dip switch 12 to the Run position. The Program/Run LED will change from red to off.
2. Adjust dip switches 1 through 4 to select a relay activation time between approximately 1 and 15 seconds. Timing is adjustable in approximately one second increments.
3. Press the Select Button once. The Status LED will remain yellow.

4. To test relay activation time with a previously enrolled Transmitter, press the Transmitter button that had been selected. The Status LED and Relay LED will turn green for the active relay time.
5. To test relay activation time with a previously enrolled credential, present the credential to the reader connected via the Wiegand interface. The Status LED and Relay LED will turn green for the active relay time.

**Relay Activation Timing Configurations**



1 second (default setting)
2 seconds
3 seconds
4 seconds
5 seconds
6 seconds
7 seconds
8 seconds
9 seconds
10 seconds
11 seconds
12 seconds
13 seconds
14 seconds
15 seconds

**For installation instructions, please review our Edge Receiver Quick Start Guide.**

**To assist in the tracking of enrolled Transmitters and/or credentials, please download the Credential Location Worksheet.**

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