RADIO KEY® Installation Instructions

Switchplate Installation Diagram

1. Mounting Plate
2. Reader Housing
3. Use appropriate Fastener
4. Use supplied screw
5. 3/4" diameter through hole for cables.

Mullion Installation Diagram

1. 3/4" Diameter through hole for cable and buzzer.
2. Use appropriate #6 Fastener

Typical Installations

Stand-alone Readers (RK-65K/RK65KS/RK100M)

- RED + 12 POWER SUPPLY
- BLACK -
- BLUE OUTPUT RELAY
- YELLOW LOCK POWER SUPPLY
- BROWN STRIKE OR MAG LOCK
- ORANGE REMOTE OPEN
- Note: Use separate power supplies for electric lock and for access control unit.

Installation Steps for RK-WS, RK65KS:
1. Drill holes as needed per installation diagram shown to the left.
2. Feed cable through 3/4" hole.
3. Attach the mounting plate to the mounting surface with the appropriate fasteners.
4. Attach the housing to the mounting plate by inserting the two tabs inside the top of the housing into the two slots at the top of the mounting plate.
5. Secure by installing supplied screws into the hole at the bottom of the reader.
6. Connect cable per wiring diagram shown below.

Installation Steps for RK-WM, RK-100M and RK65K:
1. Drill holes as needed per installation diagram shown to the left.
2. Feed cable through 3/4" hole.
3. Attach reader to any flat surface with two #6 screws.
4. Snap label insert into front of reader to cover screws.

Wiring Connections

<table>
<thead>
<tr>
<th>RK100M, RK-65K &amp; RK65KS</th>
<th>RK-WM &amp; RK-WS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE COLOR</td>
<td>STANDALONE WIRING CONNECTIONS</td>
</tr>
<tr>
<td>RED</td>
<td>5-14 VDC +</td>
</tr>
<tr>
<td>BLACK</td>
<td>GROUND ---</td>
</tr>
<tr>
<td>YELLOW</td>
<td>LATCH RELAY</td>
</tr>
<tr>
<td>BLUE</td>
<td>LATCH RELAY</td>
</tr>
<tr>
<td>ORANGE</td>
<td>REMOTE OPEN (2)</td>
</tr>
<tr>
<td>BROWN</td>
<td>REMOTE OPEN (2)</td>
</tr>
<tr>
<td>GREEN</td>
<td>NOT NEEDED</td>
</tr>
<tr>
<td>WHITE</td>
<td>NOT NEEDED</td>
</tr>
</tbody>
</table>

(1) Connect to GROUND to activate
(2) Input Programmed for Remote Open
(3) Input Programmed for LED/Beeper Control
INSTRUCTION TO THE USER

FCC ID: NNHRK100M

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the

SPECIFICATIONS:

POWER REQUIREMENTS
5-14 VDC, 90 mA

OUTPUTS
SPST Solid State Relay, 1A max. @60 VAC or DC
Normally open or normally closed (field programmable)
(See Operating Guide). For RK-65K, RK-65KS and RK-100M only.

INPUTS
Default is Remote Open (requires contact closure). For RK-65K, RK-65KS and RK-100M only.
Also programmable as Bicolor (Red or Green) LED Control or Buzzer/LED control for online systems (see Operating Guide).

WIEGAND OUTPUT
Any Wiegand Format up to 40 bits
Maximum Distance: 500 ft. - 5 or 6 conductor 20 gauge shielded cable

ENVIRONMENT
Access Control Unit, Key Tags and Cards
Ambient Temperature: +40° to +70°C (-40° to +158°F)
Humidity: 0 to 95% (non-condensing)

INFORMATION TO THE USER

FCC ID: NNHRK100M

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the

SPECIFICATIONS:

POWER REQUIREMENTS
5-14 VDC, 90 mA

OUTPUTS
SPST Solid State Relay, 1A max. @60 VAC or DC
Normally open or normally closed (field programmable)
(See Operating Guide). For RK-65K, RK-65KS and RK-100M only.

INPUTS
Default is Remote Open (requires contact closure). For RK-65K, RK-65KS and RK-100M only.
Also programmable as Bicolor (Red or Green) LED Control or Buzzer/LED control for online systems (see Operating Guide).

WIEGAND OUTPUT
Any Wiegand Format up to 40 bits
Maximum Distance: 500 ft. - 5 or 6 conductor 20 gauge shielded cable

ENVIRONMENT
Access Control Unit, Key Tags and Cards
Ambient Temperature: +40° to +70°C (-40° to +158°F)
Humidity: 0 to 95% (non-condensing)

INFORMATION TO THE USER

FCC ID: NNHRK100M

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of the manufacturer could void the