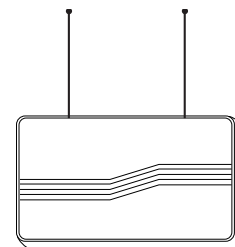




Wireless Receiver Model S3250 Installation Instructions



About the Receiver

Introduction

The S3250 Receiver recognizes alarm, status, and control transmissions from up to 96 transmitters operating at 345 MHz.

One or more individually identified receivers can be installed in a security system, since multiple receivers can provide redundant coverage or extend coverage in large areas. The S3250 receiver features a Spatial Diversity System that virtually eliminates the possibility of "nulls" and "dead spots" within the coverage area.

Mounting location

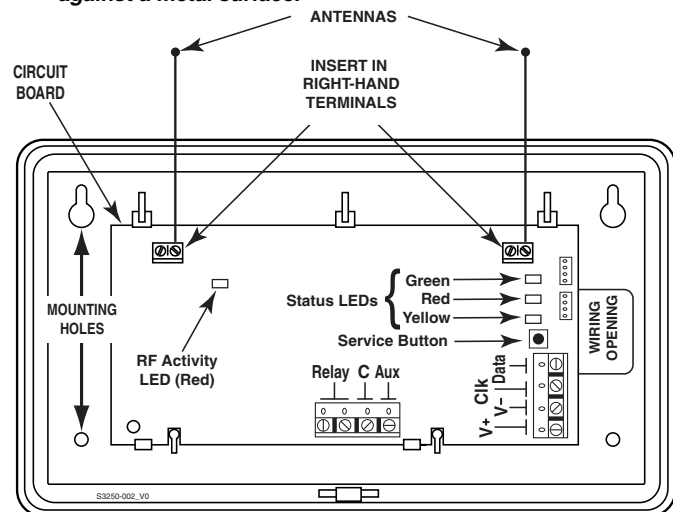
Mount the receiver so that it is centrally located to provide adequate range for the desired applications – the nominal range is 200 feet (60m) for fixed transmitters and somewhat less for keyfob transmitters. **Do not install device in an area subject to environmental extremes below 32°F/0°C or above 122°F/50°C.**

To avoid a reduction in range, do not mount the receiver within 3 feet (1m) of the panel. You may mount the receiver up to 220 feet (67m) from the panel if you are using 22 AWG wire or up to 550 feet (168m) away if you are using 18 AWG wire. **Because site conditions can affect signal reception, always test the receiver before permanently mounting it.**

Mounting procedure

To mount the receiver, do the following:

1. Remove the receiver's cover by inserting and twisting a flathead screwdriver blade in the slot at the center of the cover's lower edge.
2. If concealed wiring is to be used for the receiver, route it through the rectangular opening at the rear of the base before mounting. (For surface wiring entry, a thin breakaway area is provided along the base's right edge.)
3. Mount the receiver in the selected location. For greatest security, use all four mounting holes (two keyslot holes and two round holes) provided in the plastic base.
4. Install the antennas in the right-hand terminals of the two terminal blocks at the upper edge of the circuit board, one into each block's right-hand terminal, and tighten the screws to secure them. **Avoid mounting the receiver antennas against a metal surface.**

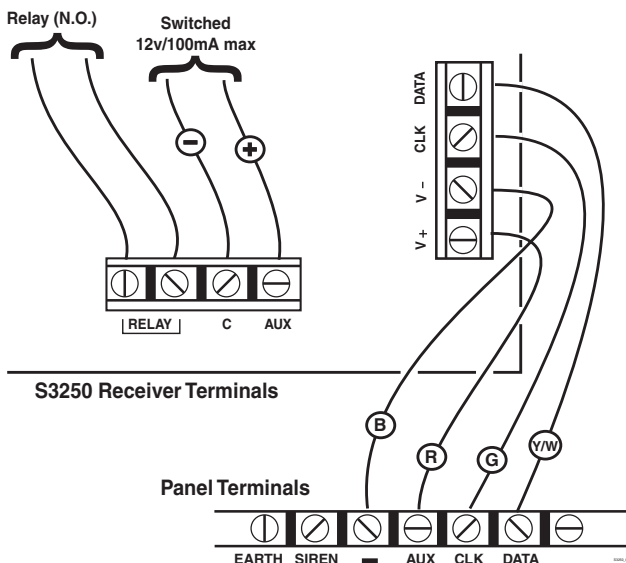


Wiring connections

To wire the receiver, do the following:

1. Disconnect the system's AC and DC power.
2. Wire the receiver according to the table and illustrations.

Receiver Terminal	Wire Color	Panel Terminal
V+	Red	AUX
V-	Black	- (common)
CLK	Green	CLK
DATA	Yellow or white	DATA



Wire Relay and Switched 12v/100mA Output

The receiver has a 24 V, 0.5 A (form A) reed relay, and a transistor switched 12v/100mA output, for control of external devices.

Wire the relay terminals in the same manner that you would connect a normally-open switch. Wire the 12v/100mA switched output as required; AUX is the +12v output and C is the return.

The default programming of the relay and aux output is listed in the panel's installation instructions.

Programming (Brink's panels only)

The procedure to program the receiver is summarized below.

1. **Install the receiver and wireless devices.** Install the system's wireless transmitters, as described in the panel's installation and setup guide and the transmitter's installation instructions.
2. **Learn the Receiver.** In Programming Mode, select **Learn Devices** (Option 2 of the Home Menu). Wait for the panel to identify and number the system's devices.

Notes:

- The receiver can support up to 96 transmitters.
- The RF ACTIVITY LED located on the receiver's circuit board should be used as an indicator of strong local RF interference. If this LED is continuously illuminated, the receiver should be relocated.

3. **For each transmitter, select the type and zone.** The instruction manuals that accompanies the panel and transmitters include recommendations regarding receiver and transmitter locations, the types of wireless zones that can be programmed (e.g., ENTRY/EXIT, PERIMETER, INTERIOR, etc.) Program the types and zones as appropriate for your installation.
4. **Enter INSTALLER TEST Mode to confirm proper operation of all devices.** Refer to the panel installation instructions for details.
5. **Program the relay and 12v/100mA output.** The relay and +12V output on the receiver are assigned to outputs when the panel learns the receiver. From within Advanced Programming, you can program the outputs to be triggered by as many as four triggers. You can also program the relay's triggers to play different cadences. See the panel's installation instructions for more information.

Note: The receiver is automatically supervised by the panel. If the receiver is detected as missing, a trouble indication will appear on the system keypad.

Programming additional receivers

The BHS-3000 can support multiple receivers. If the receivers are installed at the time the system is programmed, the panel automatically synchronizes the receiver's programming. If a receiver is added or a defective receiver is replaced, the panel updates the new receiver's programming during installation.

Test installation and verify communication

Test the installation to verify that the signals are received and interpreted properly.

The receiver has a Service LED that indicates whether the device is communicating with the panel. The LED is located above the Service Button in the lower right-hand corner of the receiver.

During normal operation, the LED blinks to indicate whether the receiver is configured, and whether the panel is polling. To determine the system's status, count the number of blinks, and compare it to the table that follows.

Blinks*	Significance	
	Is this device configured?	With which devices is the panel able to communicate?
1	Yes	This receiver
2	Yes	Other devices only
3	Yes	No devices
4	No	Other devices only
5	No	No devices

*Cadence:

250 milliseconds on, 250 milliseconds off, repeated one to five times, then off 2 seconds.

The Service LED also blinks the receiver's ID number when you press the Service Button. See the panel's installation instructions for more information.

Receiver LEDs

There are four LEDs on the receiver's circuit board:

LED	Function	Behavior
Yellow	Service LED	Indicates panel status & communication. (See text)
Green	RF Message	Flashes when a valid RF message is received.
Red	Panel Comm	Indicates decoded message was sent to the panel.
Red (left side)	RF Activity	Flickers any time RF activity is detected. Useful as an interference monitor

Note

For additional information regarding the installation, programming and use of this product with the BHS-3000 panel, refer to the BHS-3000's Installation and Programming Instructions.

Specifications

Operating Voltage	8.5 to 15.0 VDC
Operating Current	120mA (Nominal); 135mA (Maximum)
Operating Environment	32° to 122° F (0° to 50° C) < 95% relative humidity (non condensing)
Dimensions	112 mm x 80 mm x 35 mm (4.4 in. x 3.1 in. x 1.4 in.)
Weight	140g (5 ounces)

FCC Information

FCC ID: CFS8DL3250

Tested to comply with FCC Standards for Home or Office Use.

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: 1) IT MAY NOT CAUSE HARMFUL INTERFERENCE; 2) IT MUST ACCEPT ANY INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 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 interference generated by this unit is suspected, contact your local alarm installation company.

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:

- Re-orient the radio/television antenna.
- Move the television or receiver away from the unit.
- Plug the unit and the TV/radio receiver into different outlets, i.e. not on the same circuit breaker.
- Consult the dealer or an experienced TV/Radio technician for additional suggestions.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

CANADA: 1748A-3250

