

GENERAL DESCRIPTION

The RS200 unit is a receiver that controls a relay whenever it receives an ultrasonic signal from the TS200 transmitter. This unit is wallmounted inside a standard rectangular electric junction box.

COMPATIBILITY : The RS200 is totally compatible with the old RS100 et TS100. The main terminal is identical to the terminal of the RS100.

OTHER FUNCTIONS : In addition to the basic functions (to activate the relay, whenever a valid signal is received from the TS100/TS200), the RS200 has another Form C relay, completely isolated from the main contacts, to allow plugging in another device. Finally, when the power is off, all relay contacts are reversed in order to set off an alarm signal.

PREPARATION

Install junction boxes and wiring according to the Termination Identification. below. Local rules and regulations regarding the installation must be respected and followed by whomever is setting up the system, as they are responsible for it.

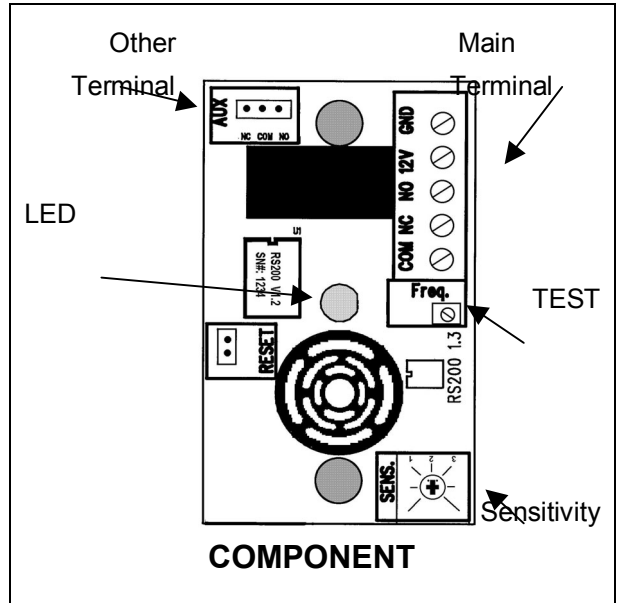
WIRING

The cable being used must be 24 to 18 awg.

- 1-Strip back each wire ¼ inch.
- 2-Insert wires in their appropriate terminals according to the drawing (see opposite).
- 3-Firmly screw in the terminal screws.

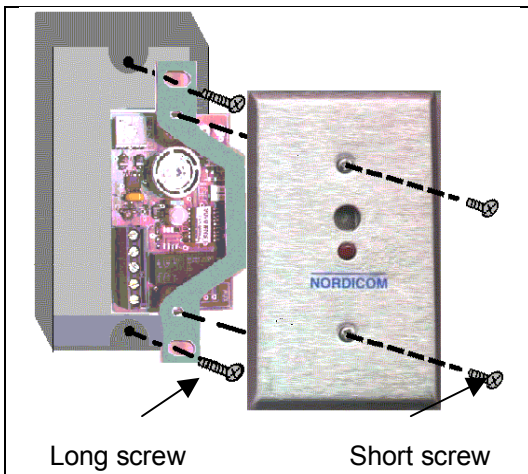
Terminal Identification

- 1) – GND (-)
- 2) – +12V +/- 10% (+)
- 3) – NO (relay connection)
- 4) – NC (relay connection)
- 5) – COMMUN (relay connection)
- 6) – Reset/ programming



SETUP

Make sure you press down on the wires at the bottom of the box, then mount the wall plate with the two screws supplied with the unit.



Sensitivity	Range
Minimum	.09 m ² (1 foot ²)
Maximum	40 m ² (400 feet ²)
Approximate range	
Actual range will differ depending on the shape of the rooms as well as the material used for floors, walls and ceilings. Hard material like concrete or gypsum will increase the transmitter's range, whereas soft or absorbent material like carpet, will reduce the range.	

POWER (Identification)

Whenever the unit is turned on, the LED flickers green, then red, then turns itself off. The number of times the LED of each colour flickers indicates the version number, e.g. green LED once, red LED twice = version 1.2.

USE

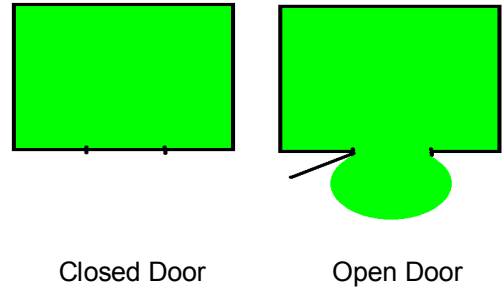
When a signal is received and validated, the relay is activated and the red light comes on. The receiver remains activated for the length of the signal and for a few seconds after the end of the signal.

TUNING (Sensitivity)

The receiver's frequency has been factory adjusted and should not be modified. The sensitivity or range of the receiver can be adjusted with a sensitivity potentiometer (see bottom right section of COMPONENTS). When the tuning knob is completely turned counter-clockwise, sensitivity is almost nil (1 to 20 cm). Maximum sensitivity is achieved by turning the tuning knob clockwise as far as possible. There is no harm in leaving sensitivity at its maximum, except if many small rooms which are close together have to be covered separately.

AREA OF COVERAGE

Although the major part of the coverage is normally within the room, an open door could let through a signal from another room when the receiver is located too close to it.



Closed Door

Open Door

LOCATION OF THE RECEIVER

The receiver should be installed in the center of the coverage area as much as possible.

INCREASING THE COVERAGE

To increase the area of coverage (for security in large rooms), multiple receivers may be added (approximately 10 meters apart) connected in parallel (contact NO) or in serial (contact NC)

OPERATING TEST

Find the area in the room farthest away from the receiver and turn on a transmitter. Check that the red light on the receiver comes on and that the relay is activated.

FREQUENCY OF TEST

To ensure a reliable and safe operation, the unit must be checked regularly.

OPERATING TEST

Regular tests should be made according to the level of danger involved in the room. Testing for the proper functioning of the system should be done at least once a month. For high risk areas, a weekly or even daily testing of the system may be required.