



SCS 30/60

SENTRY

COMMUNICATION

SYSTEMS

HS-100

- **VANDAL RESISTANT**
- **WATER RESISTANT**
- **DURESS ALARM**

Contacts are available on a cage clamp spring connector to allow interfacing with the MUX-100 zone communicator or data gathering panel (MPA) and for operating other equipment such as dome lights, electric locks, etc.

GENERAL DESCRIPTION

The HS-100 is designed to be installed in rooms where any device is subject to abuse. Such areas are jail cells and isolation rooms in psychiatric hospitals.

This receiver is intended for use with the LC-11 0 and LC-210 electronic transmitters. It has a relay output which allows it to interface with any type of alarm system.

The HS-100 faceplate is machined from 1/8" thick 7075 aluminum. The only holes are those provided for the four mounting security screws. This makes the receiver impervious to liquids and penetration by any physical material. When flush mounted into a ceiling or wall, it is virtually impossible to remove.

OPERATION

When activated by a transmitter, the receiver converts the ultrasonic signal into an electrical signal and conditions the signal for reliable transmission to a control and annunciator module.

When an alarm signal is received from a transmitter, the receiver activates a dry contact reed relay. Each pulse from a transmitter retriggers the receiver keeping the relay activated until approximately 8 seconds after the transmitter is turned off.

COVERAGE

The HS-100 is intended for operation in small rooms with hard surfaces and rooms with soft padding material. The receiver should be mounted in the ceiling, high on a wall or in the top of a doorframe. Within a room of 12'x12', the orientation of a transmitter relative to the receiver is unimportant and an alarm signal will be received.

The range for reliable reception of the signal from a transmitter is not less than 30 feet along an axis normal to the receivers front surface.

ELECTRICAL

The HS-100 receiver will operate at 24 VDC. The output is a pair of reed relay contacts. Unless otherwise specified, normally open contacts will be supplied. The contacts are rated at 10 VA at 0.5 ampere maximum.

All connections are by a 8-terminal screw clamp terminal block which will accept wires from #22-#14.

INSTALLATION

The HS-100 should be flush mounted. The receiver circuitry is mounted on a 7075 aluminum plate which fits a standard 2-gang switch box. The depth should not be less than 1 3/4 inch.

SENTRY PRODUCTS, INC.

2225 MARTIN AVE. #J SANTA CLARA, CA 95050 (408) 727-1866 FAX (408) 727-2129

ADJUSTMENTS

Receivers are factory calibrated. Normally, no adjustments are required upon installation. Should it be necessary to adjust the sensitivity (range), the square, single turn, side adjust potentiometer can be field adjusted. The sensitivity may be reduced by adjusting the potentiometer clockwise.

The larger, top adjust, multi-turn potentiometer should never be adjusted without proper instrumentation and instructions from the factory.

MECHANICAL

The receiver faceplate is 1/8 inch thick 7075 aluminum. The receiver assembly mounts in a standard 2-gang switch box of no less than 1 3/4 inch depth. There are no protrusions from the front surface. There are four holes for mounting the receiver with security screws.

MAINTENANCE

Normally, no maintenance is required. In the event of failure, please consult the factory. In most cases, the unit can be repaired or replaced within 48 hours.

POWER REQUIREMENTS

24 VDC

10 Milliamperes Nominal

40 Milliamperes in Alarm

ENGINEERING SPECIFICATION

The receiver must have a faceplate made of 7075 aluminum and not be less than 1/8 inch thick. There shall not be any holes in the faceplate other than for mounting. The receiver shall mount in a standard 2-gang switch plate. The range shall be 30 feet along the axis normal to the faceplate. Connections shall be by a cage clamp spring connector.