

SCS 30/60
SENTRY COMMUNICATIONS
SYSTEMS

RS-100-A

- **ULTRASONIC RECEIVER WITH AUDIO**
- **AUDIO ASSESSMENT**
- **DURESS ALARM**
- **REMOTE SWITCH**

GENERAL DESCRIPTION

The RS-100-A receiver has a stainless steel faceplate and fits into a standard 4-square E.O. box. It must accept audio in a range from 300 to 3000 Hz, amplify it and send it to the MUX-100-A.

OPERATION

The receiver is activated by any of the three SCS transmitters. The RS-100-A receiver converts the ultrasonic signal into an electrical signal and conditions the signal for reliable transmission to a MUX-100-A zone communicator. When an alarm signal is received from a SCS transmitter, the receiver is latched "on". Reset is accomplished when the MPA 30/60 is reset and sends a code to the MUX-100-A to momentarily interrupt the power to the receiver.

INSTALLATION

The RS-100-A receiver may be flush or surface mounted. The receiver will fit a four square (4S) box of not less than 1-3/4 inch depth. When used with a plaster ring, the ring must be a Bowers 404 series or equal. When the RS-100-A is mounted with a piggyback MUX-100-A a deep box should be used to permit room for conduit and other conductors. The RS-100-A must be installed as a sensor on an MPA 30/60 system.

COVERAGE

The range for reliable reception of the signal from any SCS transmitter is approximately 50 feet along the axis to the receiver faceplate. Refer to "Notes From Sentry" or request the application note "Locating Receivers" for more detailed information when laying out a system. See Fig. 1 for coverage pattern.

ELECTRICAL

The RS-100-A receiver operates at 27VDC. All connections are by a removable eight-position terminal block which will accept wires from #22-14 AWG.

ADJUSTMENTS

The round blue and white potentiometer on the printed circuit board is a sensitivity adjustment. The sensitivity (range) may be reduced by adjusting the potentiometer counterclockwise. The sensitivity potentiometer can be adjusted in the field.

MECHANICAL

The receiver circuitry is mounted on a stainless steel, two gang faceplate. The receiver assembly mounts flush in a standard two gang E.O.

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box. The only protrusion is the red LED which does not exceed two-tenths (0.2) of an inch from the front surface.

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

27 VDC

7 Milliampères Nominal

25 Milliampères in alarm

ENGINEERING SPECIFICATION

The receiver shall be ultrasonic with a fire retardant faceplate and mount in a two gang E.O. box. The range is 50 feet along the axis to the receiver faceplate.

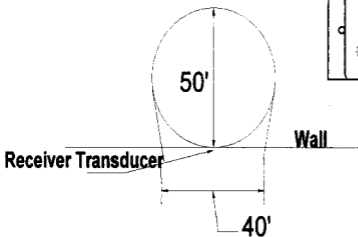


Fig. 1

