

SCS 30/60
SENTRY
COMMUNICATION
SYSTEMS
ULTRASONIC RECEIVER

MS-100

- DURESS ALARM
- COMMERCIAL/MEDICAL SYSTEMS

equal. When the four square box is one of several in a series, a deep box should be used to permit room for conduit and other conductors.

ADJUSTMENTS

The round potentiometer on the printed circuit board is a sensitivity adjustment. It is factory set and normally should not require adjustment. The sensitivity (range) may be reduced by adjusting the potentiometer clockwise. The rectangular potentiometer should never be adjusted in the field.

MECHANICAL

The receiver circuitry is pre-mounted on a fire retardant ABS, two-gang faceplate. The receiver assembly mounts flush in a standard single-gang E.O. 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

- 12-27 VDC
- 7 Milliamperes Nominal
- 25 Milliamperes in alarm

ENGINEERING SPECIFICATION

The receiver shall be ultrasonic with a fire retardant faceplate and mounts in a two-gang E.O. box. The range shall not be less than 50 feet on axis and 22 feet at 70 degrees off-axis. The receiver shall operate on 12-27 VDC. Connections shall be by a pluggable terminal block.

GENERAL DESCRIPTION

The MS-100 receiver has a fire-retardant faceplate and fits into a standard 4-square E.O. box.

OPERATION

The receiver is activated by any of the three SCAN transmitters. The receiver converts the ultrasonic signal into an electrical signal and conditions the signal for reliable transmission to a MUX-100 zone communicator.

When an alarm signal is received from a SCAN transmitter, the receiver is latched "on". Reset is accomplished when the MPA 30/60 is reset by the momentary interruption of power. Contacts are available on a detachable screw terminal block.

COVERAGE

The range for reliable reception of the signal from any SCAN transmitter is not less than 50 feet at any angle up to 70 degrees off-axis. At greater than 70 degrees, range is dependent on the room acoustics but generally decreases to about 30 feet.

ELECTRICAL

The MS-100 receiver operates at 12 to 27 VDC. All connections are by an 8-terminal screw clamp terminal block which will accept wires from #22-14.

INSTALLATION

The MS-100 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

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