LS-971 Digital Shock Detector
Installation Manual

INTRODUCTION

The new series 971 digital shock detector combines the most advanced photo semiconductor sensor and microcomputer signal processor, ensuring fast and reliable set-up with false alarm immunity. The vibration signal it receives within a period will be analyzed and compared with the database in order to determine whether it is an alarm signal. In addition, the sensitivity can be set continuously in order to get a balance point correctly.
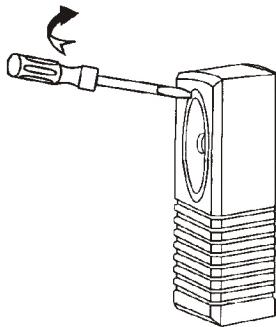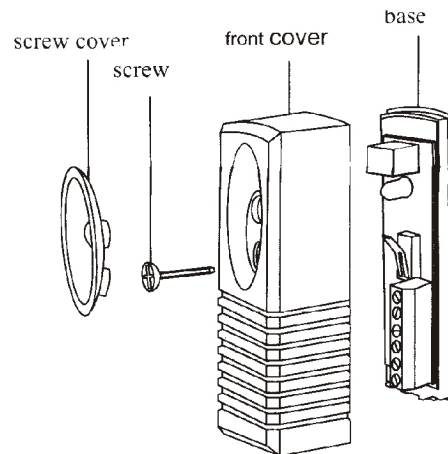
Figure 1- screw cover removal

Figure 2 - exploded view

INSTALLATION

Disassembly and Assembly
1. Removing the Front Cover
Insert a small screwdriver into one of the narrow gaps at the sides of the tear shape cover (see Fig. 1). Lever carefully sideways, until the cover arches slightly out and snaps free (do not let it fly off). Retain the cover and loosen the screw within the inner shaft (see Fig. 2). Remove the main front cover carefully, to avoid dropping the screw.
2. Installing the Front Cover
Carefully fit the main front cover onto the base. Insert the screw into its shaft and tighten it well. Position the tear shape cover correctly. Let the cover snap into place.

Mounting
The 971 may be mounted in various positions on protective surface including walls, ceilings and window/door frames (see Fig 4) with any direction or angle.

Use two screws to fix the detector on protected surface at A, B position. Ensure that the base has full and secure contact with the surface to be protected.
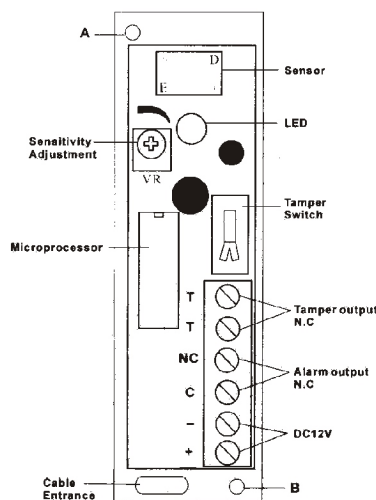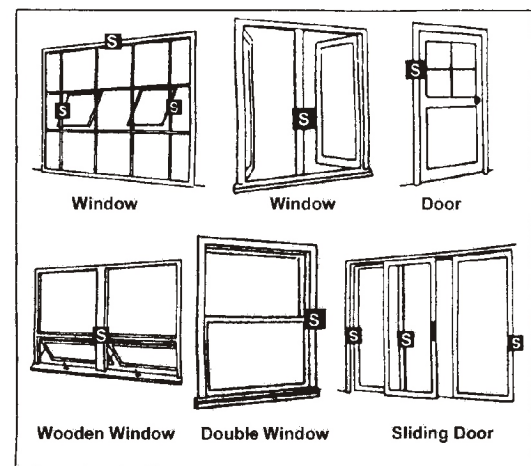
Fig 3

Fig 1

CABLE CONNECTION

Terminal connection is as follows:
+, - :   Connect to auxiliary 12V of the control panel.
C, NC: Connect to a normal closed alarm zone of the control panel.
T, T: Connect to a normal closed tamper zone of the control panel.

SENSITIVITY ADJUSTMENT

To set the sensitivity turn the potentiometer VR(see Fig-3) to minimum (clockwise). Gradually increase the sensitivity by turning VR anti-clockwise. After each adjustment, firmly tap the protective area with suitable force (similar to attack force) and observe the red LED. If the red LED lights up for 2 seconds indicates that the detector is triggered and the sensitivity is correct. Try once more with lighter force to check whether the sensitivity is too high.

WARRANTY

The Seller warrants its products to be free from defects in materials and workmanship under normal use for a period of one year. Except as specifically stated herein, all express or implied warranties whatsoever statutory or otherwise, including without limitation, any implied warranty of merchantability and fitness for a particular purpose, are expressly excluded. Because Seller does not install or connect the products and because the products may be used in conjunction with products not manufactured by the Seller. Seller cannot guarantee the performance of the security system. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any products not meeting the specifications. In no event shall the Seller be liable to the buyer or any other person for any losses or damages whether direct or indirect or consequential or incidental, including without limitation, any damages for lost profits stolen goods, or claims by any other party, caused by defective goods or otherwise arising from the improper, incorrect or otherwise faulty installation or use of the merchandise sold. The user is cautioned that any changes or modifications not expressly approved by Posonic Security Systems could void the user's authority to operate/use the equipment.

SPECIFICATION

Model	PS-971
Sensor	Detecting signal of photo semiconductor
Processor	Microprocessor controlled
Alarm Relay Output	Normally closed, opens on alarm (2 seconds)
Alarm Relay Rating	100mA 12V, 30 ohm resistor in series
Sensitivity Setting	Manual setting: by rotary VR setting continuously
Tamper Switch	Normally closed, open upon lid removal
Tamper Rating	100mA at DC12V
Indication	Red LED=Alarm
Supply Voltage	DC8-15V
Quiscent Current	11mA at DC12V
Alarm Current	17mA at DC12V
Operating Temperature	-10 to 55°C
Casing	Flame resistive white ABS
Dimension (W x H x D)	26x85x24mm
Weight	50g