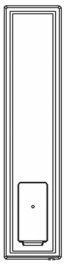
Vibration Detector SHOCK-01



INSTALLATION INSTRUCTIONS

SIM

SECURITY IN MOTION

P/N 7111721 Ver. B

The SHOCK-01 is a wired vibration sensor uses to detect mechanical attacks, such as hammer, drill, explosive, diamond drills and hydraulic pressure.

The SHOCK-01 designed for use with vaults, safes and ATM machines or other reinforced areas such as deposit boxes, data storage cabinets, and filing cabinets.

FEATURES

- Unique signal analysis ignores environmental and disturbances
- Sensitivity adjustment
- New ultra compact design
- Wall mount installation
- Outstanding detection range and reliability
- A frequency analysis circuit responds to low & amplitude Long-duration signals (drilling or thermal lance).
- Relay Out
- LATCH Input –Enable to see the which detector performed an Alarm
- Tamper protected Top and Bottom

MOUNTING THE DETECTOR

A. Remove the screw cover (fig. 1a) and unscrew the holding screw (fig. 1b).

B. Pull up the cover (fig. 1C) from the base (fig. 2a).

C. Remove Printed Circuit board (fig. 2b) from the unit base (fig. 2a).

D. Thread the cable into the opening (fig. 2-d) and mount the base (Fig. 2a) on the wall using 2 screws 3x30 (fig. 2c).

E. Install the Printed Circuit board back into the base.

F. Connect the wires to the terminal block accordingly.

Fig. 1

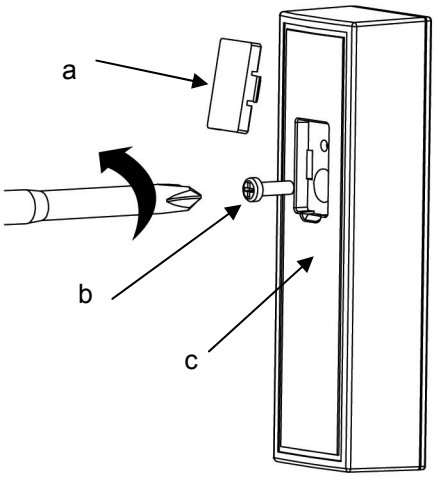
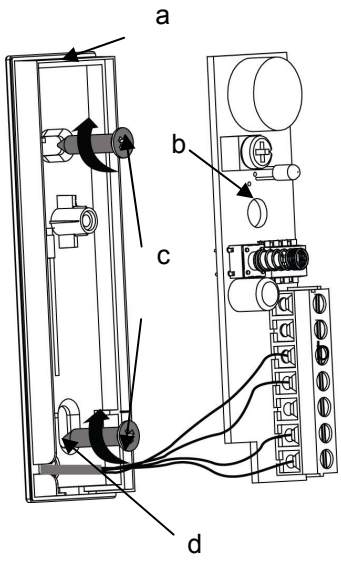
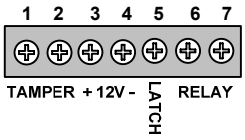


Fig. 2



Terminal Block Connection

Fig. 3



Terminals 1 & 2 - Marked " TAMPER "
If a Tamper function is required connect these terminals to a 24 hour normally closed protective zone in the control unit. If the front cover of the detector is opened, or the detector is removed from the mounting wall an immediate alarm signal will be sent to the control unit.

Terminal 3 - Marked " + " (+ 12V)
Connect to a positive Voltage output of 9.6-16 V DC source (usually from the alarm control unit).

Terminal 4 - Marked " - " (GND)
Connect to ground of the control panel.

Terminal 5 - Marked "LATCH "
The alarm LATCH (memory) function allows the identification of an alerting detector out of multiple detectors connected to one (or the same) zone of the control unit.
To enable this function, connect (switch on) the LATCH terminal to a switched +12V DC source (e.g. Arm / Disarm voltage output) from the control unit.)
In case of an alarm, the memory function stores the alarm event in the detector.
To identify the detector that alarmed, disconnect (switch off) (grounded) the voltage from MEM terminal.
The LED of the detector with the alarm event in memory will light constantly until memory function is reset.
To reset the memory function, switch on and switch off the "LATCH" terminal.

Terminals 6 & 7 - Marked " RELAY "
These are the output relay contacts of the detector. Connect to a normally closed zone in the control panel.

Fig. 4

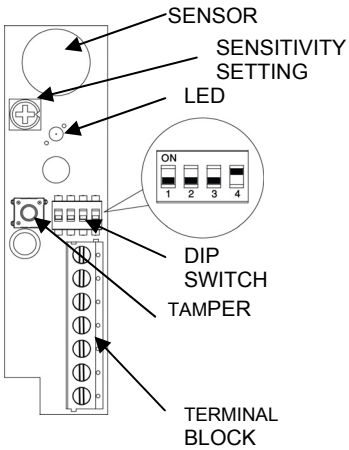
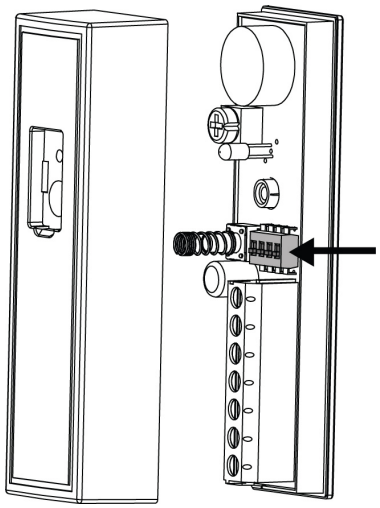


Fig. 5



SENSITIVITY and RESPONSE ADJUSTMENT

DIP Switch # 1

SENSITIVITY RANG ADJUSTMENT

Dip switch no. 1 use for setting the sensitivity range of the detector

Position ON - High sensitivity, if the detector located in a range of 3 to 6 m from the protected area.

Position OFF – Low sensitivity, if the detector located in a range of 1 to 3 m from the protected area.

** Factory Setting - OFF

DIP Switches #2 and #3

RESPONSE TIME ADJUSTMENT

Dip switches no. 2 and 3 uses for setting the response time and the number of mechanical pulse which will activates the alarm.

Dipswitches

SWITCH NUMBER		#2	# 3
Average signal		OFF	OFF
2 Pulses		OFF	ON
4 Pulses	(**)	ON	OFF
8 Pulses		ON	ON

Dip switch # 4 – LED Indication

ON- LED Indication ON **

OFF- LED Indication OFF

** Factory Setting

SHOCK RESPONSE ADJUSTMENT

The Potentiometer is uses for setting up the shock level response.

Use the potentiometer to adjust the shock level response.

Rotate the potentiometer clockwise to increase the sensitivity.

Rotate the potentiometer counter-clockwise to decrease the sensitivity.

** Factory default set to MID.

SPECIFICATION

Detection Method	Piezzo
Detection Radius	Mechanical tools - up to 6m For concrete, brick or steel walls
Power Input	9.6 to 16 Vdc
Current Draw	10 mA
Alarm Duration	2 ±0.5 sec
Alarm Output	Form A, N.C 30Vdc @ 0.1 A with 10Ohm series protection resistors
Tamper Contact	N.C 30Vdc @ 0.1A with 10 Ohm series protection resistor – Open when cover is removed or unit removed from the wall.
Warm Up Period	1 min
LED Indicator	Red LED is ON during alarm
Dimensions	85mm x 25mm x 20mm
Weight	35 gr.
Housing Protection	IP43
Operating Temp.	-10°C to +50°C
Storage Temp.	-20°C to +70°C
Humidity	<95% relative humidity, non Condensing
EMI Rejection	50Khz to 2Ghz >15V/m

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