

Mini Shock/Vibration Detector

SS-040Q/BR

SS-040Q/W

Installation Manual



SS-040Q/W shown



The ENFORCER Mini Shock/Vibration Detector is designed for protection against forced entry by a hammer, saw, crowbar, etc. through walls, ceilings, windows, safes, cabinets, etc. For use in closed-circuit alarm systems, it will initiate an alarm when a vibration of considerable force strikes the protected surface. A built-in tamper switch is independently wired from the vibration detector for enhanced security. Vibration contacts are adjustable to respond on any surface – glass, wood, steel, plasterboard, or brick. Pure silver contacts with gold plating ensure years of long-term operation. Its compact, dust-tight ABS case is easily mounted with double-sided adhesive tape.

- For use in closed-circuit alarm systems
- Pure silver contacts with gold plating ensures reliable and long-term operation
- Ideal for protecting glass windows, showcases, solid walls, ceilings, safes, cabinets, motorcycles, skylights, etc.
- Small size for discreet installation
- Built-in tamper switch provides enhanced security
- Adjustable contact pressure for different surfaces
- Detects a vibration/shock on protected surface and activates an alarm
- Available in Brown or White

Parts List

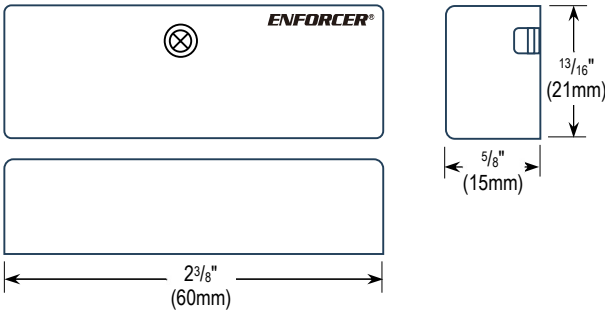
1x Mini Shock/Vibration Detector

1x Manual

Specifications

| | |
|-----------------------|--|
| Circuit type | N.C., Momentarily open when activated |
| Current rating | 1A@50VDC |
| Contact | Silver with gold plating |
| Contact pressure | Adjustable from 1 to 50 grams but recommended setting between 5 and 25 grams only. Supplied with pressure of approx. 6 grams |
| Contact break time | Approx. 45ms max. (at 6 gram pressure) |
| Estimated life | Over 100,000 cycles |
| Housing | ABS resin |
| Operating humidity | 5~90%, non-condensing |
| Operating temperature | -40°~167° F (-40°~75° C) |
| Dimensions | 2 ³ / ₈ "x1 ³ / ₁₆ "x5/ ₈ " (60x21x15 mm) |
| Weight | 0.7-oz (20g) |

Overview



Installation and Operation

1. Remove the cover. Connect one lead from the alarm N.C. input to the SS-040Q terminal near the opening in the housing and the other lead to the tamper switch terminal as shown above. The SS-040Q will trigger the alarm whenever it is vibrated, shaken, or its cover is removed.
2. If you choose not to use the tamper switch, connect the lead to the terminal farther from the opening in the housing, as shown above right. The SS-040Q will trigger the alarm only when it is vibrated or shaken.



NOTE: When protecting windows, to reduce the chance of false alarms resulting from heavy vehicles passing or pedestrians inadvertently tapping on the window, mounting the SS-040Q on the window frame rather than directly on the glass is recommended.

Adjusting the Sensitivity

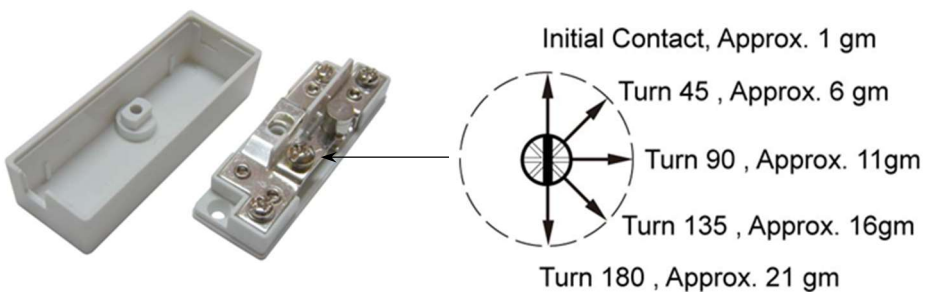
Contact pressure below 5 grams is not recommended, as erratic operation may result and cause false alarms. Contact pressure above 25 grams is not recommended because (a) it may permanently damage the vibration blade; (b) the detector may not be sensitive enough to detect vibration. However, this depends on the location where the detector is installed. If installed on a ceiling, the pressure must be increased because the internal weight faces downwards, thus reducing the actual pressure that is applied.

Since the SS-040Q can be used on many different types of material surfaces which transfer different amounts of pressure from the same vibration/shock, it may be necessary to adjust the sensitivity. Turning the adjustment screw in a clockwise direction makes the contact less sensitive while turning in a counterclockwise direction makes the contact more sensitive. Proper adjustment is necessary to avoid false alarms or non-activation of the alarm.

To adjust the pressure if a Gram meter is not available, proceed as follows.

1. Determine the initial contact point of the vibration detector. This is done by rotating the adjustment screw in a clockwise direction until the contact points just touch. At this point the pressure is usually approx. 1 gram. (An Ohm meter placed across the terminals will show exactly when initial contact is made.).
2. After contact, turn the adjustment screw past the contact point in the following increments to obtain the sensitivity you require (see Fig. 1 below).
 - a. 45 degrees to obtain approximately 6 grams
 - b. 90 degrees to obtain approximately 11 grams
 - c. 135 degrees to obtain approximately 16 grams, etc.

Fig. 1 – Adjusting Vibration Detector Pressure



IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

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SECO-LARM® U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA 92606
Phone: (949) 261-2999 | (800) 662-0800

Website: www.seco-larm.com
Email: sales@seco-larm.com

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