

ENFORCER®

SS-040Q

Mini Shock/Vibration Detector

Manual



Features:

- For use in closed-circuit alarm systems
- Pure silver contacts with gold plating to ensure 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

ENFORCER Mini Shock/Vibration Detector

Introduction:

The ENFORCER **SS-040Q 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, the **SS-040Q** 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.

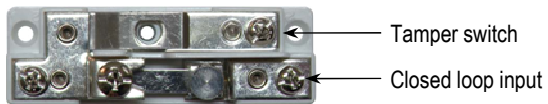
Vibration contacts are adjustable by turning an adjustment screw to respond on any surface – glass, wood, steel, plasterboard, or brick. Pure silver contacts with gold plating ensure years of long-term operation. Its dust-tight ABS case is small and can be easily mounted inside with double-sided adhesive tape.

Specifications:

Circuit type	N.C., momentarily open when activated
Contact pressure	Adjustable from 1 to 50 grams but recommended setting between 5 and 25 grams only. Supplied with pressure of approx. 6 grams
Current rating	1A@50VDC
Break time	Approx. 45 ms max. (at 6-gram pressure)
Estimated life	Over 100,000 cycles
Contact	Silver with gold plating
Case	ABS resin
Operating temperature	-40°~167° F (-40°~75° C)
Dimensions	2 ³ / ₈ "x1 ³ / ₁₆ "x5 ⁵ / ₈ " (60x21x15mm)
Weight	0.7-oz. (20 g)

Installation and Operation:

1. Remove the cover and connect one lead of the wire from the N.C. input of the alarm to the terminal of the SS-040Q near the opening. Connect the other lead to the terminal of the tamper switch, as shown below.



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, fasten the wire to the terminal farther from the opening, as shown below.



The **SS-040Q** will trigger the alarm only when it is vibrated or shaken.

NOTE: When protecting windows, the preferred installation method is to mount the **SS-040Q** on the frame of the window rather than directly on the glass. This reduces the chance of false alarms resulting from heavy vehicles passing by or from pedestrians inadvertently tapping on the window.

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.

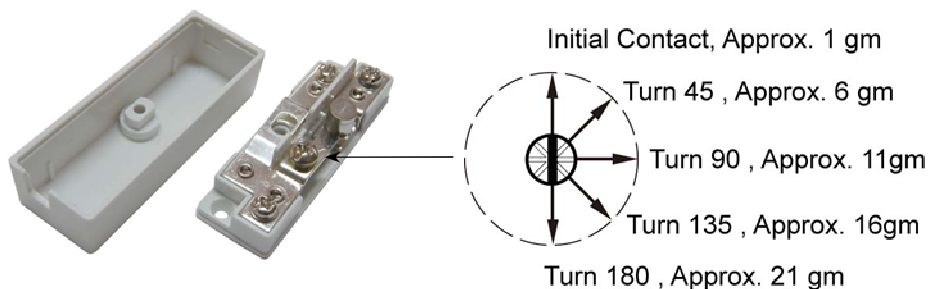
As the **SS-040Q** can be used on surfaces of different materials which transfer different amounts of pressure from the same vibration/shock, it may be necessary to adjust the sensitivity. Turning the adjustment screw in a clockwise direction makes the contact less sensitive; in a counterclockwise direction 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, please do the following:

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:
 - 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.

Please refer to figure 1 shown below.

Fig. 1: Adjusting Vibration Detector Pressure



ENFORCER Mini Shock/Vibration Detector

Also Available from **SECO-LARM®**:

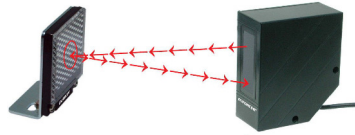
Audio Discriminator



E-190

- Covers an area 45 feet in front and 25 feet to either side
- Incorporates SECO-LARM's patented yellow turbulence LED

Entry Alert System



E-931CS22RRCQ

- For monitoring an entrance or use as an entrance indicator
- Retro-reflective beam sensor
- Range up to 22 feet

Twin or Quad Photobeam Detectors



E-964-D90Q (shown)

- Twin beams available in ranges up to 90, 190, 290, and 390 feet
- Quad beams available in ranges up to 165, 330, 495, and 660 feet

Reflective-Beam Sensor



E-931-S35RRQ

- For garage doors, outdoor gates or overhead doors or as a sensor for industrial automation.
- Weatherproof (IP66) design for indoor/outdoor applications

SECO-LARM carries a complete line of security products.

For more information please visit www.seco-larm.com

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

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