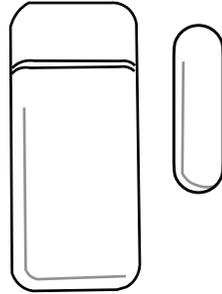# IQ SHOCK MINI-S

PRODUCT FEATURES

- Reed Switch
- Advanced accelerometer based shock detection
- 3 distinct sensitivity settings
- LED for easy calibration
- Ultra small form factor
- Easy to install batteries
- Supervisory health messaging

TECHNICAL SPECIFICATIONS

Sensor: 2.5"H x 1"W x .5"D
Code outputs: tamper, tamper restore, alarm, alarm restore, low battery.
Transmitter frequency: 319.5 MHz
Supervisory keep-alive interval: 70 minutes.
RF Peak field strength: typical 36000 uV/m at 3m
UL/ULC listed for residential use only

Operating Temperature: 0C~49C
Relative Humidity: 5-93% Non-Condensing
Storage Temperature: -25-70C
For use indoor, in dry, ordinary locations only.

Door frame height: typical 7ft to 8ft (213 to 244 cm)
Door frame width: typical 1ft to 4ft (30.5 to 122 cm)
Door frame thickness: 1 1/2" to 1 3/4" (3.8 to 4.4 cm)

Battery Life Expectancy: 5 years (for typical use) with all sensors enabled. (Not tested by UL/ULC). Replace battery with exact replacement, 3V Panasonic CR2032 Lithium (x2). Low battery threshold (2.55v). Note: For UL/ULC certified installations replace battery yearly.

MAINTENANCE CAUTION!
This product uses Lithium Batteries. Improper handling of lithium batteries may result in HEAT GENERATION, EXPLOSION or FIRE, which may lead to personal injuries.

WARNING! DANGER OF EXPLOSION IF BATTERIES ARE INSTALLED INCORRECTLY. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. KEEP AWAY FROM SMALL CHILDREN: IF SWALLOWED PROMPTLY SEE A DOCTOR. Do not try to recharge these batteries.

STEP 1 CHOOSE INSTALLATION LOCATION
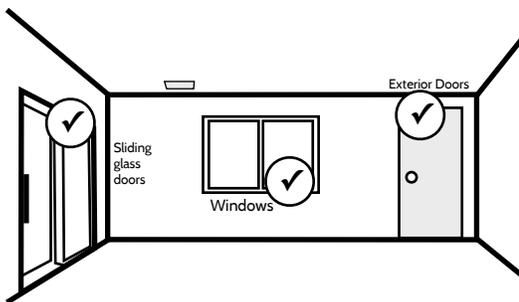
- IQ Shock Mini-S can be installed on sliding glass doors, windows, doors that swing and more.

- Enclosure base is secured to the installation surface with double sided tape, manufactured by 3M, part number 4945, UL recognized under file MH17478 (QOQW2).

- **UL/ULC NOTE:**
The IQ Shock Mini - S has been listed by UL/ULC for residential applications only and in accordance with the requirements in the Standards UL 634 and UKLC/ORD-C634 for Door and Window Contact with supplementary Shock Sensor. The shock sensor is for supplementary detection only and not for primary protection of the surface and is not intended for use as a glass break detector.

STEP 2 DIP SWITCH CONFIGURATION

Two dip switches allow you to customize the behavior of this device:

DS#1 - Installer Test Mode:
ON: - Calibrates accelerometer orientation.
- LED is Active for dialing in shock sensitivity with potentiometer.
- *Please note, when test mode is enabled (ON) the IQ Shock Mini will NOT transmit signals to the compatible panel. This mode is only used for initial installation and calibration of the shock sensor.*

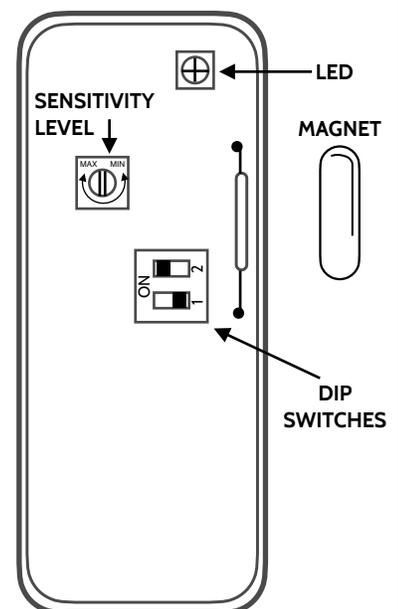OFF: - Disables installer test mode.

DS#2 - Reed Switch:
ON: - Enables reed switch (must be ON for UL installations).
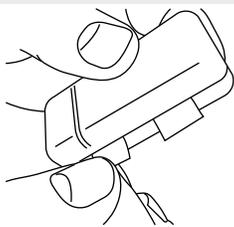OFF: - Disables reed switch.

Sensitivity Level:
CLOCKWISE: - More Sensitive
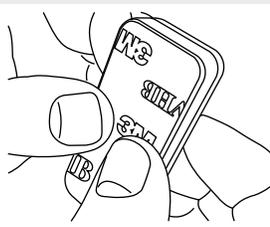COUNTER-CLOCKWISE: - Less Sensitive

IMPORTANT NOTE:
The IQ Shock is intended to be installed on doors with or without glass inserts and on window frames but not on the actual glass surface.
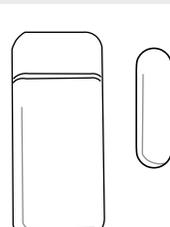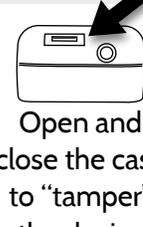
| STEP 3 | REMOVE BATTERY TABS | STEP 4 | APPLY ADHESIVE | STEP 5 | MOUNT SENSOR & MAGNET | STEP 6 | LEARN INTO PANEL |

Place your panel in "Auto Learn" mode | Open and close the case to "tamper" the device | ADD — Customize name and settings as desired and and touch "ADD"

| STEP 7 | ADJUST SHOCK SENSITIVITY |

Adjusting the Shock Sensitivity:

IMPORTANT: Calibrate the IQ Shock Mini's accelerometer from the final mounting position by moving dip switch 1 to ON (enable installer test mode). While in this mode the LED will flash RED when it detects a shock level strong enough to trigger an alarm at the control panel. There are 3 total sensitivity settings and the LED will flash each time the sensitivity threshold is changed. *Please note that no RF transmission from the sensor occurs during installer test mode.*

Gently hit (using the palm of your hand) the surface on which the device is installed. Gradually increase the pressure or turn the shock sensitivity adjustment dial clockwise with a small screwdriver until the desired response is obtained. Ensure that the device is not triggered by accidental vibration (e.g., wind, birds, window coverings) hitting the protected window or surface. Normal traffic or operation of the door/window should not trip the shock sensor. When testing the sensitivity of the unit, do not cause stress or damage to the mounting surface or to the glass. *WARNING: In order to avoid personal injury while testing sensitivity, do not apply pressure to glass inserts or windows.*

Move dip switch 1 to OFF (disable installer test mode) once shock sensitivity has been set to the desired level. Verify that the IQ Shock Mini properly communicates with the Panel.

ADDITIONAL INFORMATION

PLACEMENT TESTING:

Before permanently mounting any wireless device, temporarily mount the device and perform a placement test from the control panel. *For detailed placement instructions refer to the control panel installation manual.*

IMPORTANT! Only GOOD or STRONG signal strengths are acceptable. If you receive a POOR signal from the device, re-locate it and re-test until a GOOD or STRONG signal is received.

Note: For UL/ULC installations, only STRONG signal levels are acceptable. After installation verify the product functionality in conjunction with the compatible panel receiver.

GAP SEPARATION:

Recommended maximum gap separation for installation depends on specified materials and axes of use is 6.25mm (0.25''). See table below.

Direction of Movement	Metallic (ferrous) Materials		Non-Metallic (non-ferrous) Materials	
	Approach/ Make	Remove/ Break	Approach/ Make	Remove/ Break
Axis X	14 - 19mm	19 - 24mm	14 - 27mm	16 - 29mm
Axis Y	10 - 13mm	13 - 18mm	12 - 18mm	15 - 23mm
Axis Z	20 - 26mm	24 - 30mm	20 - 29mm	25 - 32mm
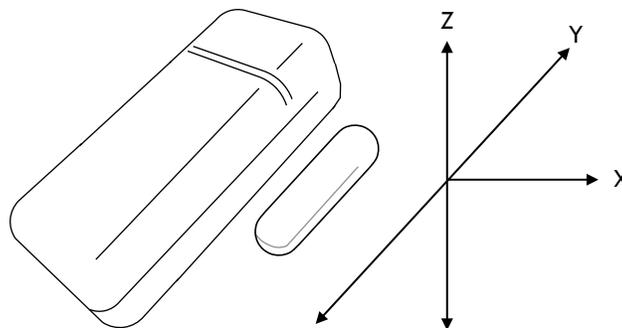
COMPATIBLE RECEIVERS:

For use only with IQ Panel 4, IQ4 Hub, IQ4 NS or IQ Pro variants with compatible SRF 319.5MHz daughter card receiver installed.