DSC SS102

DSC SS102 Seismic Vibration Sensor Instruction Manual

Model: SS102 | Brand: DSC

1. Introduction

The DSC SS102 Seismic Vibration Sensor is designed to detect shock and vibration, providing an essential layer of security for various applications. This manual provides detailed instructions for the proper installation, operation, and maintenance of the SS102 sensor to ensure optimal performance and reliability within your security system.

2. Key Features

- Seismic vibration detection for enhanced security.
- Adjustable pulse count for false alarm prevention.
- Integrated LED indicator for status and testing.
- Suitable for indoor shock/vibration detection.
- Surface mount installation.

3. Safety Information

Please read all instructions carefully before installing or operating the DSC SS102 sensor. Failure to follow these instructions may result in improper operation, damage to the device, or personal injury.

- Installation should be performed by qualified personnel only.
- Disconnect power to the control panel before performing any wiring or maintenance.
- Ensure all wiring connections are secure and correct according to the control panel's specifications.
- Do not expose the sensor to extreme temperatures or moisture beyond its specified operating conditions.
- This device is intended for indoor use only.

4. Installation and Setup

Proper installation is crucial for the optimal performance of the SS102 sensor. Follow these steps carefully:

4.1 Mounting Location

- Select a solid, stable surface that is directly connected to the area you wish to protect (e.g., a wall, window frame, or safe).
- Avoid mounting on surfaces that are prone to excessive vibration from non-security related sources (e.g., heavy machinery, air conditioning units).
- Ensure the mounting surface is clean and dry.

4.2 Physical Installation

1. Carefully open the sensor casing to access mounting holes and terminals.
2. Using appropriate screws, securely mount the sensor to the chosen surface. Ensure it is firmly attached to transmit vibrations effectively.
3. Refer to the diagram below for typical mounting orientation and component identification.

Figure 1: DSC SS102 Seismic Vibration Sensor. This image shows the white rectangular sensor unit. Visible on its front face are the "DSC" logo, the word "SHOCKGUARD" embossed vertically, a small adjustment screw, and an LED indicator. The sensor is designed for surface mounting.

4.3 Wiring

Connect the sensor to your alarm control panel according to the panel's instructions and the SS102 wiring terminals. Typically, this involves connecting to a zone input and power supply.

- Identify the alarm output terminals and power input terminals on the SS102.
- Connect the power supply (e.g., 12V DC) to the designated power terminals.
- Connect the alarm output to a supervised zone input on your control panel.
- Ensure proper polarity for power connections.

4.4 Sensitivity and Pulse Count Adjustment

The SS102 features adjustable sensitivity and pulse count to prevent false alarms while ensuring reliable detection.

- **Sensitivity Adjustment:** Use a small screwdriver to adjust the sensitivity screw (refer to Figure 1). Turn clockwise to increase sensitivity, counter-clockwise to decrease. Test the sensor after each adjustment.
- **Pulse Count:** The pulse count setting determines how many consecutive shock events are required within a short period to trigger an alarm. This helps differentiate between genuine threats from minor environmental disturbances. Consult your control panel or sensor documentation for specific pulse count settings if available, or adjust based on thorough testing.

5. Operation

Once installed and configured, the DSC SS102 sensor continuously monitors for seismic vibrations. When the detected vibration level exceeds the set sensitivity threshold for the specified pulse count, the sensor will trigger an alarm condition, signaling the connected control panel.

- **LED Indicator:** The integrated LED (refer to Figure 1) provides visual feedback during testing and operation. It typically illuminates briefly upon detection of a shock event, and may indicate an alarm condition depending on the system's configuration.
- **Testing:** Regularly test the sensor by applying controlled impacts to the protected surface (e.g., tapping firmly near the sensor) to ensure it triggers an alarm at the desired sensitivity level.

6. Maintenance

The DSC SS102 sensor requires minimal maintenance to ensure long-term reliability.

- **Cleaning:** Periodically wipe the sensor's exterior with a soft, dry cloth to remove dust. Do not use abrasive cleaners or solvents, as these may damage the casing or internal components.
- **Testing:** Perform functional tests at least annually, or more frequently in high-security applications, to verify proper operation and sensitivity settings.
- **Environmental Check:** Ensure the sensor remains free from moisture, extreme temperatures, and physical damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Sensor not triggering	Low sensitivity setting, improper wiring, power issue, faulty sensor.	Increase sensitivity, check wiring connections to the control panel, verify power supply, test sensor functionality.
False alarms	High sensitivity setting, low pulse count, environmental vibrations, improper mounting.	Decrease sensitivity, increase pulse count, relocate sensor if necessary, ensure secure mounting to a stable surface.

Problem	Possible Cause	Solution
LED not illuminating	No power, faulty LED, sensor not detecting events.	Check power connections, test sensor for detection by applying a shock, contact support if LED remains non-functional.

8. Specifications

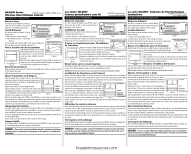
Feature	Detail
Model	SS102
Brand	DSC
Mounting Type	Surface Mount
Output Type	Electrical signal
Specific Uses	Indoor shock/vibration detection
Upper Temperature Rating	120°F (49°C)
Item Model Number	SS102

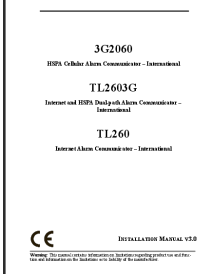
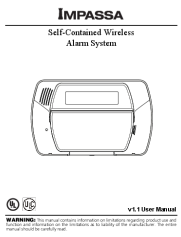
9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your authorized DSC dealer or distributor. Keep your proof of purchase for warranty claims.

For further assistance, visit the official DSC website or contact their customer service department.

Related Documents - SS102

	WLS907 Series Wireless Door/Window Contact Installation Instructions Comprehensive installation guide for the DSC WLS907 Series Wireless Door/Window Contact sensor, covering battery installation, mounting, external contacts, tamper switch, and enrollment.

	[DSC 3G2060, TL2603G, TL260 Alarm Communicator Installation Manual] Comprehensive installation manual for Digital Security Controls (DSC) alarm communicators, detailing setup and configuration for the 3G2060 (HSPA Cellular), TL2603G (Dual-path Internet/HSPA), and TL260 (Internet) models. Covers installation, programming, safety, and troubleshooting for security system installers.
	[DSC Power632 PC1565 Installation Manual] Detailed installation manual for the DSC Power632 PC1565 security system, covering setup, wiring, programming, and system features for installers.
	[TL-150 IP Alarm Communicator Installation Guide | DSC] Detailed installation instructions for the DSC TL-150 Residential IP Alarm Communicator. Learn how to connect, configure, and program the device for your security system.
	[DSC Impassa SCW9055/SCW9057 Self-Contained Wireless Alarm System User Manual] User manual for the DSC Impassa SCW9055 and SCW9057 Self-Contained Wireless Alarm System. This guide provides information on system features, installation, operation, and maintenance.
	[Troubleshooting DSC PowerSeries Neo Installer Code Validation Errors] A guide to resolving the "Your Installer Code has Not Been Validated" error on DSC PowerSeries Neo panels, ensuring proper communication with Alarm.com.