

SC100 Series SEISMIC VIBRATION SENSORS



Honeywell's SC100 Series Seismic Vibration Sensors were designed to protect high-value and high-risk assets in financial, retail and other applications.

The SC100 model detects vibrations arising from attempts to disturb solid structures including fixed ATMs, bank vaults, safes and doors. The SC105 was designed to safeguard freestanding objects like standalone ATMs, gun cases, file cabinets, vending and ticket machines and more. Both models can be installed in new or existing security systems and offer a higher level of protection and

false alarm immunity than traditional shock sensors, which often lack the ability to discriminate between ambient vibration and real attacks.

The SC100 Series contain several unique features that reduce installation time and costs—including a Universal setting that lets dealers choose between safes and vaults with the change of a dip switch, integrated end-of-line (EOL) resistors that improve connectivity to the control panel, a built-in diagnostic tool and a compact size that enables placement inside small areas.

FEATURES

- **Detects attacks on**
Bank vault doors, ATMs, night deposit safes, strong room vaults, modular vaults, vending machines, freestanding safes, hatches, gates, chests and other objects with a solid structure
- **Detects attacks from**
 - Heavy strokes or gross attacks from sledgehammers or explosives
 - Repeated knocks from hammers and chisels
 - Drilling, mechanical cutting, acetylene torches, thermal cutting, water-cooled diamond drills, water jet cutting tools, hydraulic jacks (SC100 only)
- **Compact size**
Smallest available on market so fits easier when space is limited
- **Universal (ATM and vault)**
The SC100 can also be used for ATMs and night deposit safes by the simple change of a dip switch. No separate sensors are required.
- **Drilling shield (standard)**
Protects electronics inside against sabotage
- **Extended temperature**
Allows operation in extreme temperature conditions (-40° F to 158° F)
- **Remote sensitivity reduction input**
Option to reduce sensor sensitivity remotely during maintenance on ATMs, thereby reducing false alarms
- **Multi-compatible mounting plate fits on pre-fab holes**
Fits on most pre-drilled mounting holes from other seismic sensors, preventing time consuming drilling/threading. The same mounting plate can be used for mounting on concrete and welding on steel.
- **Integrated End-of-Line (EOL) resistors**
EOL resistors for alarm as well as tamper loop are already incorporated, saving installation time and reducing service calls
- **Integrated temperature alarm**
The SC100 and SC105 will alarm if the temperature exceeds 185° F. Additionally the SC100 version alarms when temperature rises faster than 6° F per minute.
- **Diagnostic LED**
Built-in tool easily selects correct sensitivity; no time consuming external tools required
- **Selectable sensitivity**
Four different sensitivity settings adapt to required range and environmental conditions
- **Remote testing and test transmitters**
Input to remotely start functional test with help of SC113 (Internal Test Transmitter) or SC115 (External Test Transmitter). If no test transmitter is available, it is possible to test internal electronics with this test.
- **Available accessories**
Mounting plate, keyhole protection kit, day/night kit, Internal Test Transmitter, armed cable and External Test Transmitter. This range of accessories allows the SC100 and SC105 Seismic Sensors to be mounted in a wide range of applications.
- Listed to UL639
- Listed to ULC-S306

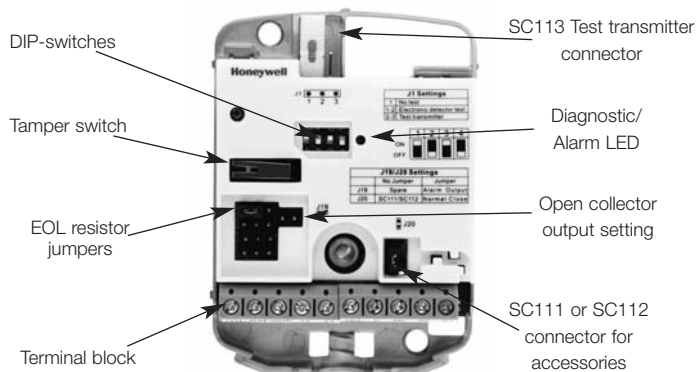
SC100 Series

SEISMIC SENSORS

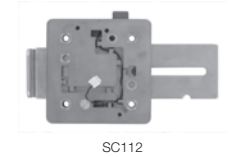
Specifications		SC100	SC105
Power Requirements	Supply Voltage	8 – 16VDC, nominal 12VDC	
	Current Consumption	Typical 3 mA @ 12VDC	
Sensitivity	Adjustable Sensitivity	4 levels by DIP Switches	
	ATMs/Vault Selection	by DIP switch	N/A
	Delayed Triggering	N/A	by DIP switch
	Reduced Sensitivity Input	For maintenance & Service: Active low (<1.5 VDC)	
	Detection Radius	16.4'	9.8'
Alarm Outputs	Alarm Algorithm	Highly sensitive to all known attacks while rejecting known false alarm sources by innovative filters and firmware	Similar to the SC100, but adjusted for noisy environments such as public areas where ATMs may be located
	Solid State Relay (Change Over)	30VDC/100 mA; Type C	30 VDC/100 mA; Type A
Sabotage Protection	Open Collector	Active low during alarm	
	Alarm Hold Time	Approx. 2.5 secs	
	Pry-off and Cover Switch	30 VDC/100 mA	
	Low Supply Voltage Alarm	< 7 VDC	
Inputs	Temperature Alarm	185° F, 23° F, 41° F	
	Internal Functional Alarm	Stainless steel drill shield	
Installation Tool	Remote Test	Active low 1.5 VDC, test duration < 0.5 sec	
	Reduced Sensitivity Input	Active low 1.5 VDC, test duration < 0.5 sec Sensitivity reduction to 12.5 %	
Environmental Conditions	Maximum Humidity	95% RH (non-condensing)	
Housing	Operating Temperature	-40° F – 158° F	
	Storage Temperature	-58° F – 158° F	
	Environmental Class (VdS)	III	
	Housing Protection Category	IP43	
Housing	Dimensions	3.15" H x 2.36" W x .83" D	
	Chassis and Cover	Die-cast metal	
	Color	RAL7035 (light gray)	
	Weight	.5 lbs.	

Honeywell reserves the right to alter the specification of products without notice.

Applications	SC100	SC105
Vault Doors	✓	
ATMs	✓	
Night Deposit Safes	✓	
Strong Room Vaults	✓	
Modular Vaults	✓	
Freestanding Safes	✓	
Hatches	✓	
Gates	✓	✓
Chests	✓	✓
Lobby ATMs		✓
Filing Cabinets		✓
Containers		✓
Vending Machines		✓
Ticket Machines		✓



SC100 series accessories



ORDERING

- SC100** Seismic Vibration Sensor (Safes/Vaults)
- SC105** Seismic Vibration Sensor (ATMs)
- SC110** Mounting Plate
- SC111** Movable Mounting Kit
- SC112** Keyhole Protection Kit

- SC113** Internal Test Transmitter
- SC114** 5.9' Armed Cable Kit (eight wires)
- SC115** External Test Transmitter
- SC116** Wall Recess Mounting Kit
- SC117** Floor Recess Mounting Kit
- SC118** Spacer for SC112

For more information:

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