

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 & BENEFITS

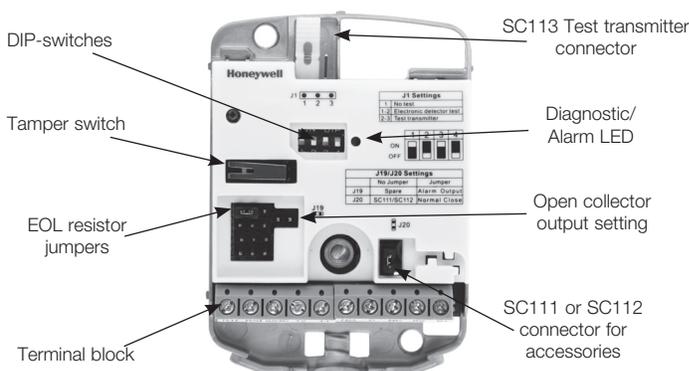
- Detects attacks on Bank vault doors, ATMs, night deposit safes, strong room vaults, modular vaults, vending machines, freestanding safes, hatches, gates, chests and other objects with a solid structure
- Detects attacks from
 - Heavy strokes or gross attacks from sledgehammers or explosives
 - Repeated 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 Technical Specifications

SPECIFICATIONS	SC100	SC105
POWER REQUIREMENTS	Supply Voltage Current Consumption	8 – 16VDC, nominal 12VDC Typical 3 mA @ 12VDC
SENSITIVITY	Adjustable Sensitivity ATMs/Vault Selection Delayed Triggering Reduced Sensitivity Input Detection Radius	4 levels by DIP Switches by DIP switch N/A For maintenance & Service: Active low (<1.5 VDC) 16.4'
	Alarm Algorithm	N/A by DIP switch Similar to the SC100, but adjusted for noisy environments such as public areas where ATMs may be located
ALARM OUTPUTS	Solid State Relay (Change Over) Open Collector Alarm Hold Time	30VDC/100 mA; Type C Active low during alarm Approx. 2.5 secs
SABOTAGE PROTECTION	Pry-off and Cover Switch Low Supply Voltage Alarm Temperature Alarm	30 VDC/100 mA < 7 VDC 185° F, 23° F, 41° F
INPUTS	Internal Functional Alarm Remote Test	Stainless steel drill shield 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 %
INSTALLATION TOOL	A noise and alarm indicator is incorporated to support sensitivity setting.	
ENVIRONMENTAL CONDITIONS	Maximum Humidity Operating Temperature Storage Temperature Environmental Class (VdS) Housing Protection Category	95% RH (non-condensing) -40° F – 158° F -58° F – 158° F III IP43
HOUSING	Dimensions Chassis and Cover Color Weight	3.15" H x 2.36" W x .83" D Die-cast metal RAL 7035 (light gray) .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		✓



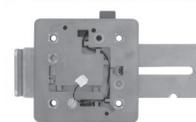
SC100 series accessories



SC110



SC111



SC112



SC113



SC113



SC114



SC115



SC116



SC117



SC118

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 Mouting Kit
SC118	Spacer for SC112

For more information:

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