

## Seismic Sensor

### ⚙ Description:

The SV100 range of Seismic sensors is designed to detect specific vibrations arising from attempts to penetrate high value storage units, protecting them against intrusion.

The SV100 model is a universal seismic sensor which can be used to protect Vaults, Doors, fixed ATMs, Safes and other solid structures.

The SV100 series offers several unique features that reduce installation time including integrated EOL resistors, a built-in diagnostic tool and the smallest footprint available on market



### ⚙ Features:

Detects attacks on	:	ATMs, night deposit safes, free standing safes, vault doors, strong room vaults, modular vaults, vending machines, hatches, gates, chests, gun cabinets and other solid structures
Detects attacks from items such as	:	<ul style="list-style-type: none"> <li>- Sledgehammers or explosives</li> <li>- Repeated blows from hammers and chisels</li> <li>- Drilling with normal and water-cooled diamond drills; cutting with mechanical, thermal and water jet cutting tools penetration by oxy/acetylene torches and thermal lances</li> </ul>
Smallest sensor	:	Smallest available on the market so easier to fit when space is limited.
Universal (ATM& vault)	:	The SV100 can also be used for ATM's and night deposit safes using a simple dip switch setting where others use separate sensors
Drilling shield (standard)	:	Protects internal electronics against sabotage.
Extended temperature range	:	Allows operation in extreme temperature conditions (-40°C to +70°C)
Remote sensitivity reduction input.	:	Allows remote adjustment of sensor sensitivity during ATM servicing to avoid false alarms
Universal mounting plate	:	Uses most pre-drilled mounting holes thus eliminating time consuming drilling/threading. Also makes refurbishment easier. In addition, the same mounting plate can be used for both mounting on concrete and welding on steel.
Integrated EOL resistors	:	Saves installation time as End Of Line resistors for both alarm and tamper loop are built into the sensor and DIP-switch selectable. This also reduces future requirements for servicing arising from faulty EOL resistor connections.
Integrated temperature alarm	:	Alarm triggers on SV100 sensors if the local temperature exceeds 85°C. Additionally the SV100 version alarms when temperature rises faster than 6°C per minute. This helps detect attacks by oxy/acetylene torches and thermic lances.

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Diagnostic LED	:	A built-in tool enables easy selection of the correct sensitivity setting, removing the need for time consuming external tools
Selectable sensitivity	:	Four different sensitivity settings available to adapt to required range and environmental conditions.
Available accessories	:	Mounting plate, keyhole protection kit, Day/Night kit, Test transmitter (internal), Test transmitter (external) and armed cable; This range of accessories allows the SV100 Seismic sensors to be installed in a wide range of applications.
Low current consumption	:	Typically 3mA @ 12VDC



### Specifications:

<b>Power Requirement</b>	
Supply Voltage	: 8 – 16 VDC, nominal 12 VDC
Current Consumption	: Typical 3 mA @ 12 VDC
<b>Sensitivity</b>	
Adjustable Sensitivity	: 4 levels by DIP Switches
ATMs / Vault Selection	: by DIP switch
Delayed Triggering	: N/A
Reduced Sensitivity Input	: For maintenance & Service: Active low (<1.5 VDC)
Detection Radius	: 5m
Alarm algorithm	: Highly sensitive to all known attacks while rejecting known false alarm sources by innovative filters and firmware
<b>Alarm Outputs</b>	
Solid State Relay (Change Over)	: 30 VDC / 100 mA; Type C
Open Collector	: Approx. 2.5 secs
Alarm Hold Time	: Approx. 2.5 secs
<b>Sabotage Protection</b>	
Pry-off and Cover Switch	: 30 VDC / 100 mA
Low Supply Voltage Alarm *	: < 7 VDC
Temperature Alarm *	: +85°C ± 5°C
Internal Functional Alarm*	: Stainless steel drill shield
<b>Inputs</b>	
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 %
Installation Tool	: A noise and alarm indicator is incorporated to support sensitivity setting.
<b>Environmental Conditions</b>	
Maximum Humidity	: 95% RH (non-condensing)
Operating Temperature	: -40°C – + 70°C
Storage Temperature	: -50°C – + 70°C
Environmental Class (VdS)	: III
Housing Protection Category	: IP43

