

ISC-SM-90 Seismic detector, 90m²

www.boschsecurity.com



BOSCH
Invented for life



- ▶ Complete protection against electrical influences
- ▶ Remotely controlled reduction of sensitivity
- ▶ Pre-alarm - Memory with optical display
- ▶ Integrated test system
- ▶ Monitoring of the supply voltage

The seismic detector is used to monitor modular vaults, vault walls, and safe doors.

Functions

Protection for various devices

The seismic detector provides reliable protection against different break in-attempts and can be used for these devices:

- safes
- automatic cash dispensers
- night deposit boxes
- light-weight safes (LWS)
- vaults
- steel/concrete modular strong-rooms

Detection of various break-in methods

The seismic detector detects the following break-in tools and methods:

- diamante core drills
- hydraulic press tools
- oxygen lances
- explosives

Double-housing

The seismic detector is equipped with a double housing. The double-housing protects the detector against electromagnetic interference and accidental or deliberate damage.

Custom-set sensitivity

The seismic detector offers intelligent signal processing to custom-set the level of detection sensitivity. This reduces the risk of false alarms.



Notice

Losing VdS conformity

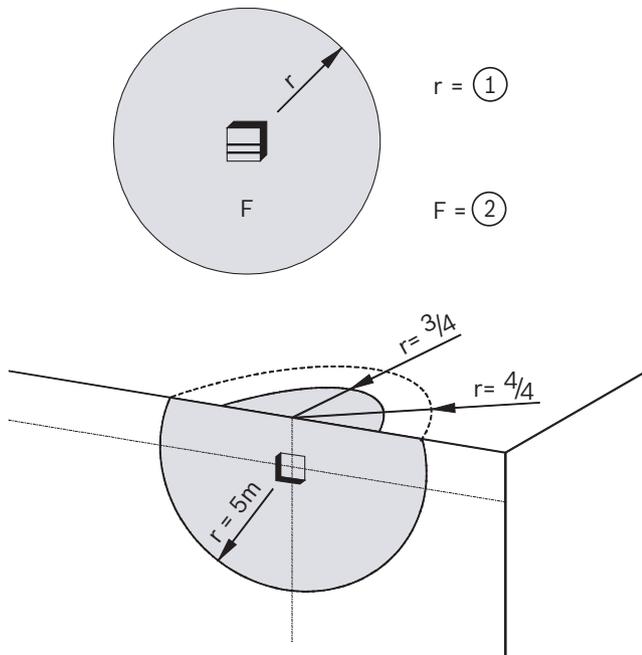
If the sensitivity is reduced, the conformity of the relevant VdS regulations in the system context must be checked or accepted by the VdS.

Installation/configuration notes

Coverage area

The area monitored by the detector is called the coverage area. It covers the area around the detector with an operating radius.

The coverage area is strongly dependent on the material of the object to be monitored. Based on practical experience, an effective radius of $r = 5\text{ m}$ applies to steel and iron-reinforced concrete.



1	Operating radius
2	Coverage area

Ideal coverage area

To achieve the ideal coverage, do the following:

- Install one detector for each plane (walls, floor, and ceiling) of the protected area.
- Do not add the coverage from adjoining planes to the comprehensive protection strategy.

Coverage area reduction

The operating radius and the coverage area can be reduced by:

- Tightly sealed corners and edges
- Incorrect positioning
- Interstices

Parts included

Quantity	Component
1	Seismic detector
1	Drilling template
3	Cable tie

Technical specifications

Electrical

Minimum operating voltage in VDC	8
Maximum operating voltage in VDC	16
Minimum current consumption in mA	2.5
Maximum current consumption in mA	3.5
Alarm current consumption in mA	5

Terminals

Alarm outputs, terminals 14, 15	
Semiconductor relay	Opens on alarm and low voltage
Contact load in VDC/100 mA	30, ohmic load
Minimum series resistance in Ω	45
Alarm holding time in seconds	2.5
Electronic alarm output, terminal 12	
Open collector alarm in VDC	0
Minimum short circuit strength in VDC	16
Tamper surveillance, terminals 10, 11	
Microswitch, cover and floor	Opens on sabotage
Contact load in VDC/100 mA	30
Anti-drilling foil in cover	Alarm when tamper
Test input, terminal 4	
Low voltage in V	<1.5
High voltage in VDC	>3.5
Remote input, terminal 7	
Low voltage in V	<1.5
High voltage in VDC	>3.5
Mechanical	
Dimension in cm (H x W x D)	8.9 x 8.9 x 2.3
Color	White
Environmental	
Minimum operating temperature in $^{\circ}\text{C}$	-40
Maximum operating temperature in $^{\circ}\text{C}$	+70

Minimum storage temperature in °C	-40
Maximum storage temperature in °C	+70
Maximum relative humidity in %	95

Ordering information

ISC-SM-90 Seismic detector, 90m²

Seismic detector, used to monitor modular vaults, vault walls, and safe doors

Order number **ISC-SM-90**

Accessories

ISN-GMX-P0 Mounting plate for seismic detector

Mounting plate for seismic detectors. Suitable for mounting seismic detectors to steel or concrete surfaces.

Order number **ISN-GMX-P0**

ISN-GMX-B0 Floor box for seismic detector

Floor box for mounting a seismic detector.

Order number **ISN-GMX-B0**

ISN-GMX-S1 Test transmitter

Test transmitter for installation under a seismic detector. Checks the detector and the physical contact between the detector and the protected object.

Order number **ISN-GMX-S1**

Represented by:

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
emea.securitysystems@bosch.com
emea.boschsecurity.com

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany
www.boschsecurity.com

North America:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
onlinehelp@us.bosch.com
www.boschsecurity.us

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia