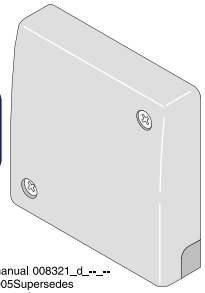
BOSCH
130 Perinton Parkway
Fairport, NY 14450
USA

ISN-SM-50

震动探测器

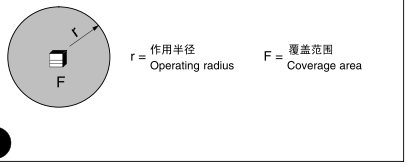
Seismic detector

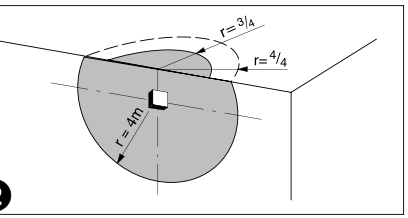
DRAFT

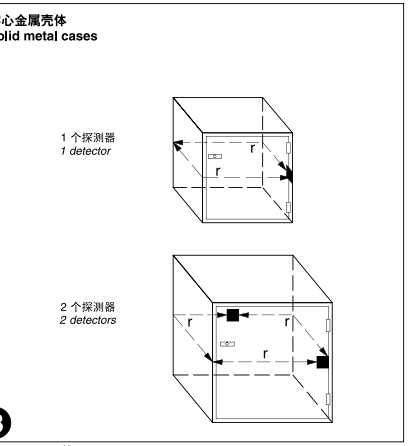


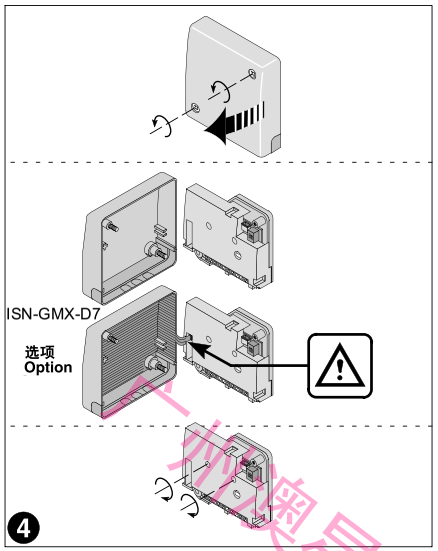
安装手册 008321 _d_-_-版本 09.2005 取代 008321_c_-_-A5Q00006664

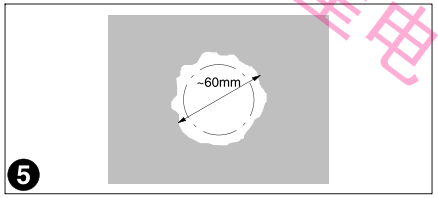
Installation manual 008321_d_--_-- Edition 09.2005Supersedes 008321_c_--_--A5Q00006664

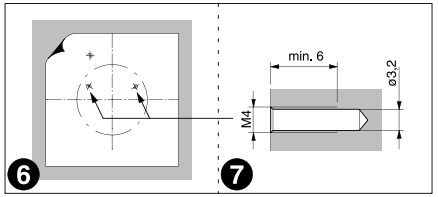


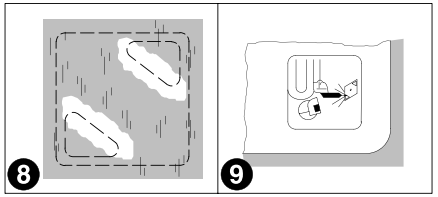


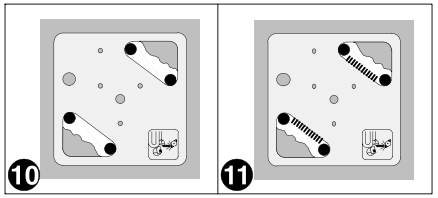


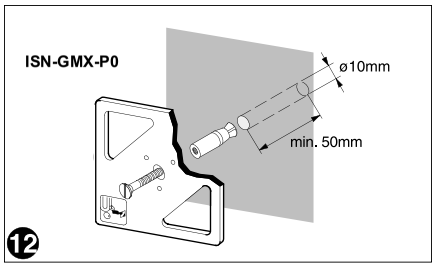


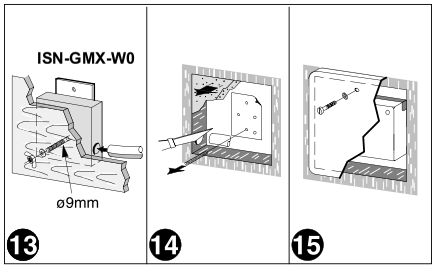


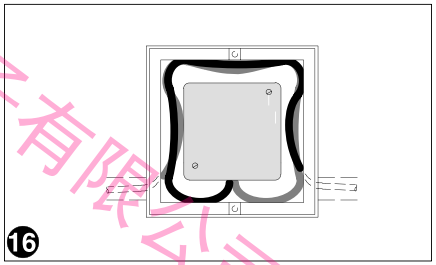


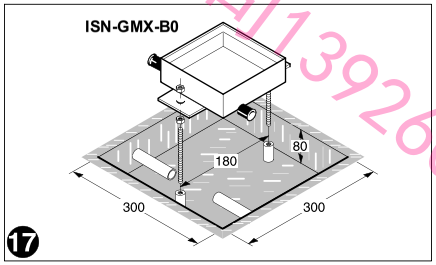


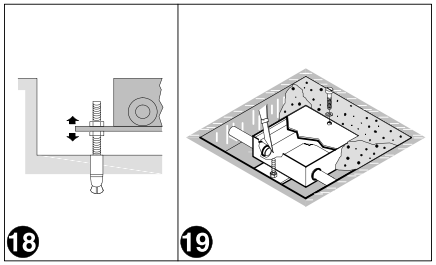


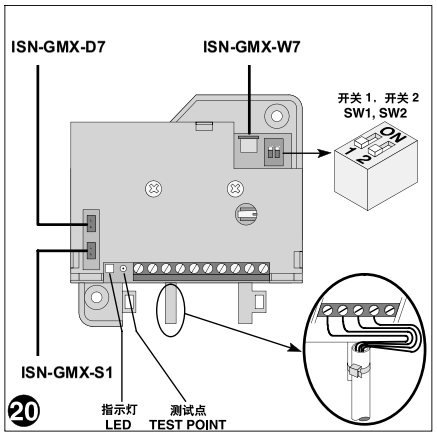


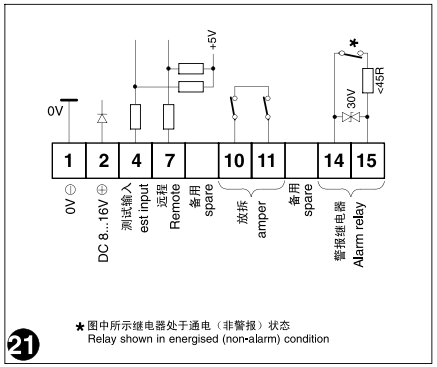


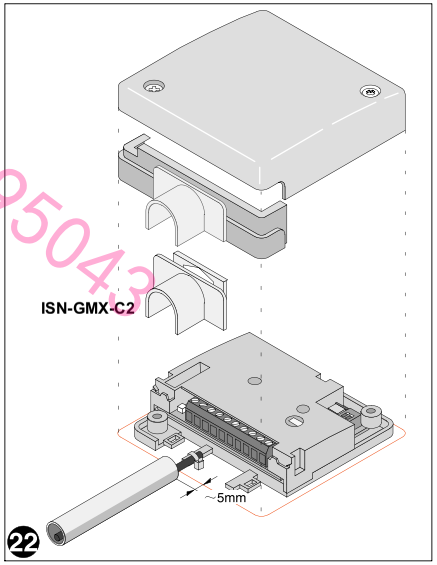












Papiergrösse = 360 x 270mm

震动探测器 ISN-SM-50
安装指南

应用范围

- ISN-SM-50 是具备新的探测和参数化功能的震动探测器。
- 使用自有专利的干扰过滤器和新的时钟过滤器，提高了探测水平。
- 本探测器可与超声波探测器配合使用。

震动探测器 ISN-SM-50 为以下项目提供可靠的保护：
- 保险箱
- 保险库墙壁
- 保险库门
- 自动柜员机
- 自动售货机
- 售票机

能准确探测带爆炸性攻击及使用任何已知工具（如金钢钻、液压工具、氧枪及炸药）的闯入企图。

探测范围 图 1 与图 2

探测范围很大程度上取决于所监测物体的材料属性。
- 对铁质材料的作用半径：r = 2m
- 对加固混凝土材料的作用半径：r = 4m
- 如果存在同质连接，安装在保险库墙壁上的探测器的探测范围也可能会延伸到天花板、地板或角落的部分区域。在这些情况下，作用半径减至设置范围的 ¾（图 2）。
- 两种材料的连接处往往会减弱结构噪声的传播。因此，必须总是在门与墙体上各安装一个探测器。本规则同样适用于保险库的入口门。

金属壳体监测 图 3

探测范围为探测器监视的机械障碍物的表面。探测范围很大程度上取决于所监测物体的材料属性。实践经验表明铁质材料的作用半径 «r» = 2.0m

注：两种材料的连接处往往减弱结构噪声传播，因此，不建议将本产品用于标准多层保险箱。

安装

打开探测器 图 4

拧开紧固螺丝并小心取下金属盖。
- 现在，我们可以看到震动探测器。

固定探测器 图 4

请仅使用两个随附的、已预装配好的 M4 十字头螺钉固定探测器。

直接安装在钢板上 图 5 至图 7

探测器可以直接安装在表面光滑的钢板上。确保完全清除钢板表面与探测器之间的所有残留油漆，而且安装表面的平整度在 0.1mm 内。如果无法实现，则使用ISN-GMX-P0安装板。

1. 清除探测器安装位置的残余油漆（图 5）。
2. 紧贴上钻孔模板并标出钻孔中心（图 6）。
3. 仅钻两个直径为 3.2mm 的带标记小孔，并攻入至少 6mm 深的 M4 螺纹（图 7）。清理螺纹孔的毛刺。
4. 安装探测器。
   请勿在探测器与物体之间使用硅脂。

使用 ISN-GMX-P0 安装板进行间接安装。图 8 至图 11

在不平或坚硬的钢板上，请焊上ISN-GMX-P0安装板。

1. 清除焊接区域的残余油漆（图 8）。
2. 在四个固定点焊接安装板。确保定位正确（图 10）。
   ➽在安装板的前部必须可以看见焊接符号（图 9）。
3. 按照图中所示的表面焊接。敲掉焊渣并清除安装板表面的熔渣（图 11）。
4. 安装探测器。
   请勿在探测器与安装板之间使用硅脂。

使用ISN-GMX-P0安装板在混凝土上安装 图 12

请勿直接将探测器安装在裸露或灰泥混凝土表面，因为弯曲应力可能会损坏震动探测器。厚度小于 10mm 的灰泥不需要清除。

1. 使用硬质合金钻头钻直径为 10mm，至少 50mm 深的中心孔（图 12）。
2. 将金属插销插入所钻的小孔中，且与混凝土表面齐平。只可使用金属插销！
3. 确保安装板定位正确。将安装板按在安装表面上，钉入带有螺钉的插销并拧紧。安装板应无法再旋转。
4. 安装探测器。
   请勿在探测器与安装板之间使用硅脂。

使用ISN-GMX-W0墙壁凹穴板的凹穴式安装
图 13 至图 15

1. 在木质混凝土模子上钻直径为 9mm 的小孔。
2. 插入螺栓并拧紧蝶型螺母，固定墙壁凹穴装置（图 13）。
3. 插入安装导线管，穿过聚苯乙烯块。
4. 取下模子后，拧下螺栓。在聚苯乙烯块中刮出导线管槽并在适当处剪断导线管（图 14）。
5. 安装探测器。
6. 安装盖板（图 15）。

墙上或地板上的缆线接入盒 图 16

将缆线插入盒中，并预留几圈。将缆线引入盒体内时，要保证适当的缆线长度。

在地板盒ISN-GMX-B0中安装 图 17 至图 19

在地板盒ISN-GMX-B0中安装，至少需要底面为 300 x 300mm、深 80mm 的凹穴（图 17）。在倒入湿混凝土时，使用聚苯乙烯块留出该凹穴。将两个 M6x100mm 螺栓拧入金属插销，该金属插销在探测器与混凝土地板之间建立声学连接。

1. 调整两个螺栓上的螺帽调平地板盒。拧紧锁定螺帽以最终定位（图 18）。
2. 将安装导线管插入封套。使用湿混凝土填满凹穴。
3. 布好缆线并完全密封进口以防止受潮（图 19）。
4. 安装探测器。
5. 装好盖板。切下地上所铺的的木板或地毯并将其粘贴在盖板上。

安装附件

ISN-GMX-C2 **导线管连接套** 图 22

ISN-GMX-C2 导线管连接套的作用是确保牢固安全地连接外径最大为 16mm 的表面安装导线管。较小尺寸的表面安装导线管可能需要搭配适当的、外径最大为 16mm 的转换套。

要安装导线管连接套，请遵照以下步骤：

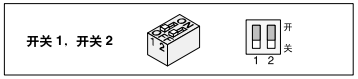
1. 将表面安装导线管伸至探测器外壳内约 5mm，然后将导线管连接套装在表面安装导线管上（图 22）。
2. 布设并连接好缆线，并使用扎线带将缆线绑在探测器上（图 20 和图 22）。
3. 敲掉整个缆线入口处塑料部分。
4. 将探测器外壳与导线管连接及探测器妥善配合，并拧紧外壳螺钉。

ISN-GMX-D7 **防钻金属片** 图 4

作为必要时使用的防拆额外保护，探测器盖上可加上特别的防钻金属片。有关此金属片的安装，请参阅 ISN-GMX-D7 随附的独立的安装说明。

编程

打开探测器外壳后，请通过开关选择各个设定值。



应用场合设置，开关 1 和开关 2

选择灵敏度设定值，以适应相应的应用场合、材料、物体和干扰情况。

重要提示：在试运行过程中，务必检查与功能相关的噪声（请参阅“试运行”）。

探测器设置	
钢铁 2.0m	开关 1 2
钢铁 1.5m	开关 1 2
混凝土 4.0m	开关 1 2
用户模式，带 ISN-SMS-W7 Software SensTool	开关 1 2

遥控降低灵敏度 图 21

本探测器的另一特性就是可以在端口 7“Remote”（遥控）上输入灵敏度降低信号，必要时，可进行遥控。

只要有大的功能性噪声，就可以在日间/夜间存款机工作时，通过按已打开的装置上的灵敏度开关，使用“LOW”（低）信号 (0V)，将探测器的灵敏度设定值约降低至原来的 1/8。

➽打开控制输入为“HIGH”（高）（内置提升电阻）。

VdS 注：若使用了控制输入端 7"Remote"（遥控）来降低灵敏度，则必须检查是否符合与该系统相关的 VdS 相关规定，或分别取得 VdS 的认可。

UL input:
Not to be used for UL listed detectors.

测试输入 图 21

测试输入端子 4 用于震动探测器与ISN-GMX-S1 或 ISN-GMX-S5 测试发射器的功能测试。

开始测试，会运行一次功能测试，且会将有效的测试结果输出到警报继电器。

➽打开控制输入为“HIGH”（高）（内置提升电阻）。

指示灯

在试运行过程中或更改工作模式时，红色的指示灯会闪烁，直到探测器准备好正常工作为止。

指示灯的警报状态会保持约 2.5 秒。

试运行

如果要使用ISN-GMX-S1发射器，则必须先连接线路，再打开电源。

程序：

1. 打开电源 — 等待 1 分钟 — 探测器准备工作。
2. 功能检查：在监视区域模拟攻击信号，如使用螺丝起子轻轻刮擦，或使用 ISN-GMX-S1/S5 测试信号
   - 探测器应该会触发警报。
3. 干扰检查：在端口 1 (0V) 和“测试点”间连接一个万用表（阻抗 ≥20kΩ），以测量积分信号：
   - 静止水平 0V
   - 积分信号启动 1.0V
   - 警报阈值（无负载）. 3.0V
4. 小心盖上盖子，上紧外壳螺钉。

探测器的防拆封条

如果指定需要探测器防拆封条，请：
在探测器外壳螺丝孔上贴上防拆封条。

ISN-SMS-W7 Software SensTool

SensTool 软件使您可以分别设置工作参数。此外，还可查看和保存当前信息，如积分信号。

视相应的应用场合、材料和物体及干扰情况而定，可能可以使用以下的额外设置：

探测器灵敏度	钢	1.0m
		1.5m
		2.0m
	混凝土	2.5m
		4.0m
震动灵敏度	低	
	中	
	高	

推荐灵敏度设置

设置震动探测器时，以下近似值可供参考。

应用场合	灵敏度	震动强度
售票机 功能相关噪声大，暴露放置	钢铁 1.0m	低
功能相关噪声大的自动柜员机，日间/夜间存款机或防盗门	钢铁 1.5m	中
带有功能相关噪声的装甲式保险箱、保险库门	钢铁 2.0m	中
带有轻微干扰的保险库、组合金库	钢铁 2.5m	高
干扰极小的保险库、组合金库	钢铁 4.0m	高

维护

定期（至少一年一次）检查探测器工作情况及是否安

认证

CE . . . . . 符合
VdS 认证，C 类. G106008
必须遵循任何与本产品应用有关的国家认证基本要求。

探测器

技术数据

电源电压（额定值12VDC） . . . . . 8.0 . . . 16.0VDC
电流消耗（电压为 12VDC，静态） . . . . . 一般 3mA
- 警报条件 5mA

警报输出，端子 14+15：
半导体继电器 . . . . . 在警报和/或低电压时脱扣
- 接触负载 . . . . . 30VDC/100mA，电阻负载
- 串联阻抗 . . . . . ≤45Ω

警报持续时间 . . . . . 2.5 秒

破坏活动监测：
破坏，端子 10+11：
- 盖子 + 机身微型开关 . . . . . 在遭到破坏时开启
- 接触负载 30VDC/100mA
- 电源电压 . . . . . <7V...8V => 警报
- 盖子上的防钻金属片 . . . . . 破坏 => 警报

灵敏度降低输入，端子 7：
- 用于降低 . . . . . 低≤1.5V/高≥3.5V
- 降低至 . . . . . 实际设置的 1/8

灵敏度，调整幅度 . . . . . 3 个固定级别 + 可使用 SensTool 软件编程

功能测试输入，端子 4：
- 用于测试 . . . . . 低≤1.5V/高≥3.5V
- 使用ISN-GMX-S1测试周期 . . . . . ≤3 秒
- 使用ISN-GMX-S5测试周期 . . . . . ≤90 秒

测量输出，测试点。模拟积分信号
- 静止水平 0V
- 积分信号启动 1.0V
- 警报阈值（无负载） 3,0V

对铁质材料的作用半径 . . . . . r = 2m
对铁质材料的覆盖范围 13m2

环境条件：
- 工作温度 . . . . . -40° . . +70°C
- 存放温度 . . . . . -50° . . +70°C
- 湿度，DIN F 级 . . . . . <95%
- 外壳保护类别 (EN60529, EN50102) IP435
- VdS 环境 . . . . . 等级 III
- 对 RD 干扰不敏感
  0.01...2GHz (IEC 801-3) 30V/m

附件

ISN-GMX-W0 墙壁凹穴装置，带盖子
- 外壳保护类别 IEC IP51
- 盖子最大承载能力 25kg

ISN-GMX-B0 地板盒
- 外壳保护类别 IEC IP51
- 盖板最大承载能力 1000kg

ISN-GMXW-W0 防水外壳
- 外壳保护类别 IEC IP65
- 盖子最大承载能力 1000kg

详细订购信息

探测器附带的元件

1 个震动探测器
1 本安装说明书
1 个安装模板
3 条扎线带

震动探测器	ISN-SM-50	**41**
安装板	ISN-GMX-P0	73
墙壁凹孔装置，带盖子	ISN-GMX-W0	21
地板盒	ISN-GMX-B0	02
防水外壳	ISN-GMXW-G0	26
旋转板	ISN-GMX-P3S	19
测试发射器	ISN-GMX-S1	37
外置测试发射器	ISN-GMX-S5	00
16mm 导线管连接套	ISN-GMX-C2	84
SensTool，接口与软件	ISN-SMS-W7	46
		51
防钻金属片（10 件）	ISN-GMX-D7	45

Spacer 2 mm to GMXP 3 / ..Z.....ISN-GMX-P3S2
Spacer 4 mm to GMXP 3 / ..Z.....ISN-GMX-P3S4
Watertight housing GMXWG 0.....ISN-GMXW-G0
Test transmitter GMXS 1.....ISN-GMX-S1
Fixing device GMAS 6.....ISN-GMA-S6
Swivel plate GMXP3Z.....ISN-GMX-PZ

Papiergrösse = 360 x 270mm

Seismic detector ISN-SM-50
Installation

Application

- The ISN-SM-50 is a seismic detector with new detection and parameterization features.
- The detection is improved by the patented disturbance filter and new clock filter.
- The detector may be used together with ultrasonic detectors.

The seismic detector ISN-SM-50 provides reliable protection for
– safes
– strongroom walls
– strongroom doors
– automatic cash dispensers
– vending machines
– ticket machines
against attack with explosives and break-in attempts with any of the known tools, such as diamond-head drills, hydraulic pressure tools, oxygen lances and attack using explosives.

Coverage area fig. 1 + 2
The coverage area is highly dependent on the material of the object to be monitored:
– Operating radius on steel: «r» = 2m
– Operating radius on reinforced concrete: «r» = 4m

- The coverage area of the detector on strongroom walls may also extend to part of the ceiling, floor, or over corners if an homogeneous connection exists. In such cases the operating radius is reduced to ¾ of the range setting (fig. 2).
- Joints between two materials always damp the structure-borne noise transmission. One detector on the door and one on the body must always be installed. This also applies to entrance doors of strongrooms.

Surveillance of metal cases fig. 3
The coverage area is designated as the surface of a mechanical obstacle which is monitored by a detector. The coverage area is highly dependent on the material of the object to be monitored. Practical experience has shown that the operating radius for steel is «r» = 2.0m
Note: Joints between two materials always damp the structure-borne noise transmission, therfore not recommended on standard multilayer safes.

Installation

Opening the detector fig. 4
Unscrew the captive screws and lift off the metal cover carefully.
– The seismic sensor is now exposed.

Fastening the detector fig. 4
Use only the two pre-assembled M4 cross-head screws provided in order to fix the detector.

Direct mounting on steel fig. 5 to 7
The detector can be installed directly on steel plates with a smooth surface. Ensure that any residual paint between the steel surface and the seismic sensor is completely removed and the mounting surface is level to within 0.1mm. If this is not possible, use mounting plate ISN-GMX-P0

1. Remove residual paint from sensor installation site (fig. 5).
2. Stick on drilling template and centerpunch drill holes (fig. 6).
3. Drill only the two marked holes of 3.2mm dia. and tap M4 thread at least 6mm deep (fig. 7). Deburr threaded holes.
4. Mount detector.
   Do not use silicon grease between sensor and object!

Indirect installation with mounting plate ISN-GMX-P0 fig. 8 to 11
In the case of uneven or hardened steel plates, weld on mounting plate ISN-GMX-P0

1. Remove residual paint from the welding area (fig. 8).
2. Weld mounting plate in four fixing points. Ensure correct positioning (fig. 10).
   ➵ The welding symbol must be visible on the front of the mounting plate (fig. 9).
3. Weld along surfaces indicated. Tap off slag and remove weld spatter from the plate surface (fig. 11).
4. Mount detector.
   Do not use silicon grease between sensor and mounting plate!

Installation on concrete using mounting plate ISN-GMX-P0 fig. 12
Never install the detector directly on a bare or plastered concrete surface, since bending forces may cause damage to the seismic sensor. Plaster of less than 10mm need not be removed.

1. Drill centre hole 10mm dia. at least 50mm deep using a sintered carbide bit (fig. 12).
2. Insert metal plug into drilled hole flush with the concrete surface. Use metal plugs only!
3. Ensure that the mounting plate is correctly positioned. Press the mounting plate onto surface, knock in screw with plug and tighten well. The plate should no longer be capable of rotation.
4. Mount detector.
   Do not use silicon grease between sensor and mounting plate!

Recessed mounting with wall recess plate ISN-GMX-W0 fig. 13 to 15

1. Drill 9mm dia. hole in wooden concrete mould.
2. Fasten the wall recess set by inserting threaded bolt and tightening wing nut (fig. 13).
3. Push the installation conduit through the polystyrene block.
4. After removing mould, unscrew threaded bolt. Scrape out polystyrene and cut off conduit flush (fig. 14).
5. Mount detector.
6. Mount cover plate (fig. 15).

Cable feed in wall box and floor box fig. 16
Insert cable with reserve loop into the box. Ensure appropriate cable length when drawing the cable in.

Installation in floor box ISN-GMX-B0 ig. 17 to 19
To install the floor box ISN-GMX-B0 a recess with a base area of at least 300 x 300mm and a depth of 80mm is required (fig. 17). Use a polystyrene block to keep this recess open when pouring in the wet concrete.
Two threaded bolts M6x100mm screwed into metal plugs provide the acoustic connection between the detector and the concrete floor.

1. Level floor box using the nuts on the two threaded bolts. Fix position finally by tightening the lock nuts (fig. 18).
2. Feed installation conduits through sealing sleeves. Fill recess with wet cement.
3. Pull cable through and thoroughly seal the entry openings for protection against moisture (fig. 19).
4. Mount the detector.
5. Fit cover plate. Cut out wood or carpet floor covering and stick to cover plate.

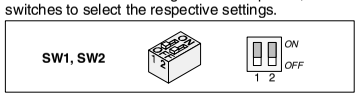
Installation accessories

ISN-GMX-C2 **Conduit connection sleeve** fig. 22
The function of the ISN-GMX-C2 conduit connection sleeve is to ensure fixed and secure connection of surface-mounted conduits of an outside diameter of up to 16mm. Smaller-size surface-mounted conduits may require fitting of an appropriate transition sleeve of a maximum outside diameter of 16mm.
To fit the conduit connection sleeve, proceed as follows:

1. Route the surface-mounted conduit to within about 5mm of the detector housing and fit the conduit connection sleeve onto the surface-mounted conduit (fig. 22).
2. Wire the connecting cable and secure in place at the detector by a cable strap (fig. 20, 22).
3. Knock out the entire cable entry in the plastic section.
4. Fit the detector housing onto the conduit connection and detector, tighten the housing screw.

ISN-GMX-D7 **Anti-drilling foil** fig. 4
A special anti-drilling foil is available for fitting into the detector cover as an additional protection against tampering, if required. For installation refer to the separate mounting sheet delivered with the ISN-GMX-D7

Programming
After the detector housing has been opened, use the switches to select the respective settings.



Application settings, SW1 and SW2
Select the sensitivity setting to suit the application, the material and the object with the associated interference.
Important: During commissioning, be sure to check for function-related noise (see "*Commissioning*").

Settings on the detector	
Steel 2.0m	
Steel 1.5m	
Concrete 4.0m	
User Mode, with ISN-SMS-W7 Software SensTool	

Remote controlled sensitivity reduction fig. 21
An additional feature of this detector is a sensitivity reduction input at terminal 7 "Remote" which can be remotely activated if required.
Using a LOW signal (0V), the detector is reduced to about 1/8 of the sensitivity setting for as long as there is heavy functional noise by means of a touch-sensitive switch on the opening device during operation of day-night deposit.
➵ Open control input is HIGH (internal pull-up resistor).
Attention VdS note: When the control input terminal 7 "Remote" is used to reduce the sensitivity, then the compliance with the relevant VdS provisions in connection with the system must be checked, or accepted by the VdS, respectively.

Test input fig. 21
The test input terminal 4 is used for the functional testing of the seismic detector together with the ISN-GMX-S1 or ISN-GMX-S5 test transmitter.
With *TEST ON* the functional test is run once and a positive test result is output to the alarm relay.
➵ Open control input is HIGH (internal pull-up resistor).

LED
During commissioning or when changing operating mode the red LED flashes until the detector is ready for operation.
Lights on alarm condition for approx. 2.5s.

Commissioning
If the ISN-GMX-S1 test transmitter is to be used, it must be connected before power is switched on.
Procedure:

1. Switch on voltage – wait 1 minute – the detector is ready for operation.
2. Functional check: Simulate an attack signal in the supervised area, for example scratch lightly with a screwdriver or test signal ISN-GMX-S1/S5 – the detector should trigger an alarm.
3. Interference checks: Connect an universal measuring instrument (impedance ≥20kΩ) between terminal 1 (0V) and "TEST POINT" for integrator signal:
   – quiescent level 0V
   – integration start 1.0V
   – alarm threshold (without load) 3.0V
4. Carefully close the cover, tightening the housing screw.

Tamper seal of the detector
If tamper seal of the detector is specified:
Apply an anti-tamper seal over the detector cover screw hole.

SensTool ISN-SMS-W7
The SensTool software allows operating parameters to be set individually. In addition, current information such as integrator signals can be viewed and stored.
The following additional settings are possible, depending on the application, material and object, with corresponding interferences:

Detector sensitivity	Steel	1.0m
		1.5m
		2.0m
	Concrete	2.5m
		4.0m
Shock sensitivity	low	
	mid	
	high	

Recommended sensitivity settings
The following approximate values can be used as reference values for the setting of the seismic detector:

Application	Sensitivity	Shock
Ticket machine with heavy functional related noises, exposed location	Steel 1.0m	low
Autom. cash dispenser, Day/night deposit, Safe door with heavy functional related noises	Steel 1.5m	mid
Armoured safe, Strongroom door with functional related noises	Steel 2.0m	mid
Strongroom, Modular vault with light interferences	Concrete 2.5m	high
Strongroom, Modular vault with minimum interferences	Concrete 4.0m	high

Maintenance
Test detectors regularly (at least once a year) for operation and firm mounting.

Approvals
CE ..... conforms
VdS approval, class C G106008
Any national approval requirements relating to the application of the product must be complied with.

Technical data

Detector

Supply voltage (nom. 12VDC) ..... 8.0...16.0VDC
Current consumption (at 12DC, quiescent) ..... typ. 3mA
– alarm condition 5mA

Alarm output, terminals 14+15:
Semiconductor relay ..... opens on alarm and/or low voltage
– contact load ..... 30VDC/100mA, ohmic load
– series resistance ..... ≤45Ω
Alarm holding time 2.5s

Sabotage surveillance:
Tamper, terminals 10+11:
– microswitches for cover + body ..... opens on tamper
– contact load 30VDC/100mA
Supply voltage ..... <7V..8V ⇒ alarm
Anti-drilling foil in cover ..... tamper ⇒ alarm

Sensitivity reduction input, terminal 7:
– for reduction ..... LOW ≤1.5V / HIGH ≥3.5V
– reduction to ..... 1/8 of the actual setting

Sensitivity, adjustable in ..... 3 fixed levels + SW programmable with SensTool

Functional test input, terminal 4:
– for test ..... LOW ≤1.5V / HIGH ≥3.5V
– ISN-GMX-S1 , test duration ..... ≤3s
– ISN-GMX-S5 , test duration ..... ≤90s

Measuring output, TEST POINT . analogue integration signal
– quiescent level 0V
– integration start 1.0V
– alarm treshold (without load) 3.0V

Operating radius on steel ..... r = 2m

Coverage area on steel 13m²

Ambient conditions:
– operating temperature ..... –40°...+70°C
– storage temperature ..... –50°...+70°C
– humidity, DIN class F ..... <95%
– housing protection category (EN60529, EN50102) .. IP435
– VdS environmental class III
– insensitive to RD interferences
  0.01...2GHz (IEC 801-3) 30V/m

Accessories

ISN-GMX-W0 Wall recess set with cover
– housing protection category IEC IP51
– max. carrying capacity of cover 25kg
ISN-GMX-B0 Floor box
– housing protection category IEC IP51
– max. carrying capacity of cover plate 1000kg
ISN-GMXW-G0 Watertight housing
– housing protection category IEC IP65
– max. carrying capacity of cover 1000kg

Details for ordering

Elements supplied with detector

1 Seismic detector
1 Mounting instructions
1 Mounting template
3 Cable straps

Seismic detector	ISN-SM-50
Mounting plate	ISN-GMX-P0
Wall recess set w/cover	ISN-GMX-W0
Floor box	ISN-GMX-B0
Watertight housing	ISN-GMXW-G0
Swivel plate	ISN-GMX-P3S
Test transmitter	ISN-GMX-S1
External test transmitter	ISN-GMX-S5
Conduit connection sleeve 16mm ..	ISN-GMX-C2
SensTool, interface and software .	ISN-SMS-W7

GMXD7 Anti-drilling foil (10 pcs) ISN-GMX-D7

Spacer 2 mm to GMXP 3 / .Z..... ISN-GMX-P3S2
Spacer 4 mm to GMXP 3 / .Z..... ISN-GMX-P3S4
Watertight housing GMXWG 0..... ISN-GMXW-G0
Test transmitter GMXS 1..... ISN-GMX-S1
Fixing device GMAS 6..... ISN-GMA-S6
Swivel plate GMXP3Z..... ISN-GMX-PZ

Papiergrösse = 360 x 270mm