Wireless glass-breakage sensor

5222 03 (flush-mounted)
5223 16 (surface-mounted)

10869898 34/22

GIRA

General safety instructions

This product contains a battery.
Do not swallow batteries. Risk of burns from hazardous materials.
Immediately seek medical attention if batteries have been swallowed or inserted into any part of the body.
Keep new and used batteries away from children.
These instructions are part of the product and must remain with the end customer.

Observe the commissioning order

Commissioning order for the security system Alarm Connect:
1. Mount the alarm control unit and put it into commission (battery and 230 V connection).
2. Configure the project in the GPA and transfer it to the alarm control unit memory.
3. Install all other devices, put into commission (insert batteries, etc.) and check the wireless connection to the alarm control unit.
4. After successful verification, set the alarm control unit to operation mode.
Failure to observe the commissioning sequence will render commissioning of the safety system unsuccessful.

Product features

The wireless glass-breakage sensor is used to monitor windows and glass doors wireless. It detects the sound of breaking glass and the resulting noise pressure in the room.
When the system is activated, a signal is transmitted to the alarm control unit Connect if an incident occurs (glass breakage).
The wireless glass-breakage sensor is available in a surface-mounted and a flush-mounted version. The flush-mounted version fits into any Gira System 55 cover frame. The device features an integrated tamper contact.

Sticker with Hardware ID

The device comes with two stickers with the Hardware ID. You can use one of the two stickers for your site map and simply scan the Hardware ID with an appropriate scanner during configuration in GPA.

Included in delivery

1x wireless glass-breakage sensor
1 x set of mounting hardware
1 x operating instructions
2 x stickers with Hardware ID
1 x support ring and support ring adapter (for flush-mounted version only)

Ensure the package contents are complete and undamaged. Please see "Warranty" in case of any defects.
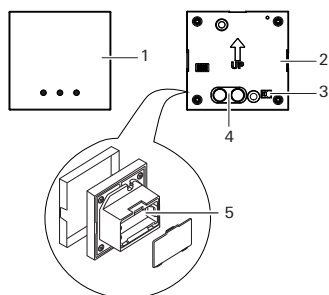
Required accessories

- Alarm control unit Connect (item no. 5201 00)
- Wireless operating unit (item no. 5212 03)

Accessories

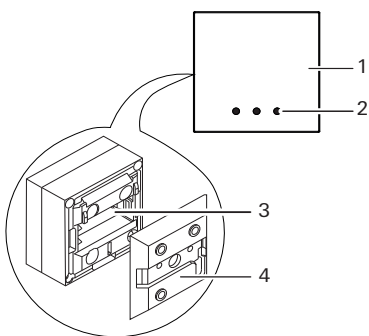- Glass breakage tester for wireless glass-breakage sensor (item no. 0904 00)

Device description

Wireless glass-breakage sensor, flush-mounted

Front view
1 Upper housing section
2 Lower housing section
3 Tamper contact (sabotage contact)
4 Glass-breakage sensors
Rear view
5 Battery compartment

Wireless glass-breakage sensor, surface-mounted

Front view
1 Housing
2 Glass-breakage sensors (behind cover)
Rear view
3 Battery compartment
4 Mounting frame

Selecting the installation site

Notes about the mounting location

Please consider the following when selecting the installation site:
- Distance between wireless glass-breakage detector and glass pane: min. 1 m to max. 8 m.
- Mount on the wall across from the pane to be monitored. The sensor should always have a direct line of sight to the pane to be protected.
- Type of glass: plate/float.
- Minimum glass size 0.4 x 0.4 m.
- Thickness of glass: min. 3 mm to max. 6 mm
- Keep 1.5 m minimum distance from sources of sound (speakers, TV, etc.).

Unsuitable installation sites:
- Behind thick, noise attenuating curtains.
- Rooms of a size < 10 m^2.
- Rooms with continuous noise pollution, e.g. boiler rooms, workshops, etc.

Installing the wireless glass-breakage sensor
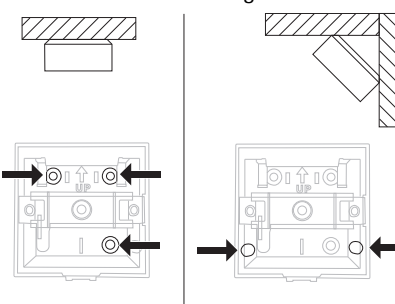
Wireless glass-breakage sensor, flush-mounted
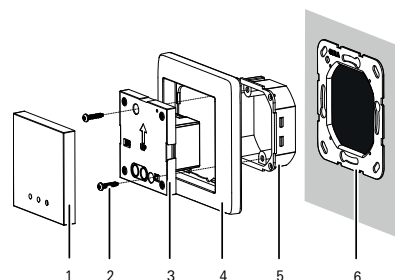
1 Upper housing section
2 Fixing screws
3 Lower housing section
4 Design frame (no part of the scope of delivery)
5 Support ring adapter
6 Support ring

1. Mount the support ring onto the flush-mounted device box.
2. Clip the support ring adapter into the support ring (observe "UP" marking of wireless glass-breakage sensor).

Wireless glass-breakage sensor, surface-mounted

1. Mark the drilling holes, drill and insert wall plugs. Depending on the mounting method different mounting holes are provided in the mounting frame.

2. Mount the mounting frame on the wall. Secure the disconnecting surface of the tamper contact (see arrow).
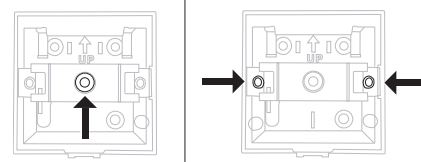
Commissioning the wireless glass-breakage sensor

Conditions for device commissioning

The project must first be successfully commissioned in GPA (see "Commissioning order").

Gira Project Assistant (GPA)

The security system Alarm Connect is configured via GPA. The following settings are made in GPA for the wireless glass-breakage sensor:
- Assign device ID.
- Enter a device name.
- Select alarm setting [activated internally] or [activated internally and externally].
- Put the project into commission.

Wireless glass-breakage sensor, flush-mounted

1. Parameterise the wireless glass-breakage sensor in GPA and put the project into commission.
2. Insert the battery (**Observe polarity!**), close the battery compartment and wait for the initialisation phase. The wireless glass-breakage sensor is automatically detected by the alarm control unit Connect.
3. Install the Gira System 55 cover frame onto the support ring and screw lower housing section to the support ring adapter with two screws.
4. Attach the upper housing section to the lower housing section.

Wireless glass-breakage sensor, surface-mounted

1. Parameterise the wireless glass-breakage sensor in GPA and put the project into commission.
2. Insert the battery (**Observe polarity!**) and wait for the initialisation phase. The wireless glass-breakage sensor is automatically detected by the alarm control unit Connect.

Batteries inserted too early

If the units have been activated before start-up, they are in "sleep mode" and can no longer connect to the alarm centre. In this case, the batteries must be removed and reinserted.

3. Attach the wireless glass-breakage sensor to the mounting frame.
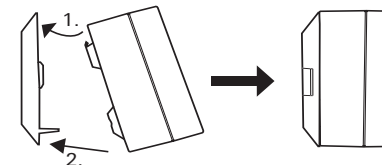
Status LED

Behaviour	Meaning
Lights up red continuously	Tamper alarm
Alternates quickly between green and red	Initialisation phase
Blinks red, quickly and for a max. of 10 s	Error initialisation phase
Blinks green, quickly and for a max. of 5 s	Registration phase
Lights up green for approx. 3 s, then turns off	Registration successful
Blinks red in short intervals for a max. of 10 s	Registration error
Blinks green, quickly every 2 s and in cases of a status change, 1x quick red flash	Test run

Stand-by mode

After commissioning of the device, communication must take place between the device and the alarm control unit Connect within 7 min. After 7 min the device automatically switches to stand-by mode. If the device does not receive a signal from the alarm control unit Connect within the 7 min period, the stand-by mode can not be ended automatically.
The device must then be reactivated (remove and replace the battery) so that communication can be established with the alarm control unit Connect. Always observe the commissioning order.

Check the signal quality of the wireless connection

Check the wireless connection to the alarm control unit

Check the signal quality of the wireless connection between the alarm control unit Connect and the device.

1. Activate the test mode in the GPA under [security system] -> [Diagnosis and test].
2. Trigger the glass-breakage sensor with a glass breakage tester (see „Accessories").
3. Check the signal quality.
   Bad signal quality: Insert a wireless repeater and check the signal quality again.
   Good signal quality: End test mode.

Replacing the battery

⚠️ **WARNING**

Explosion hazard in case of improper handling of batteries.

Do not throw batteries into the fire, and do no recharge batteries, as this may result in a risk of explosion.

⚠️ **WARNING**

⚠️ **WARNING**

Danger of acid burns from bursting or leaking batteries.

Always change an empty battery for a new one of the same type.

Replacing the battery

Replace the battery as soon as the "low battery" display appears in the display of the wireless operating unit.

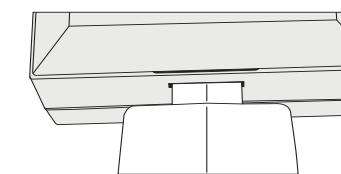### Wireless glass-breakage sensor, flush-mounted

1. Open the top section of the wireless glass-breakage sensor with the unlocking tool (included with the alarm control unit Connect). The tamper alarm is displayed at the wireless operating unit.
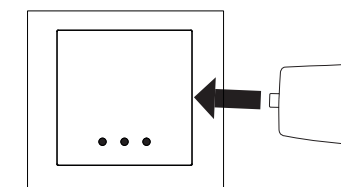
2. Undo the two screws and remove the bottom section of the device with the cover frame from the support ring.
3. Open the battery compartment and replace the battery with a new battery of the same type (**Observe polarity!**).
4. Installation is carried out in the reverse order.
5. Acknowledge the tamper alarm on the wireless operating unit.

Wireless glass-breakage sensor, surface-mounted

1. Detach the wireless glass-breakage sensor from the mounting frame with the unlocking tool (included with the alarm control unit Connect). The tamper alarm is displayed at the wireless operating unit.

2. Replace the battery with a new battery of the same type (**Observe polarity!**).
3. Reattach the wireless glass-breakage sensor to the mounting frame.
4. Acknowledge the tamper alarm on the wireless operating unit.

Remove empty batteries immediately and dispose of them in an environmentally-friendly way. Do not dispose of batteries with household waste. Local authorities provide information about environmentally-sound disposal. The end consumer is legally required to return used batteries in accordance with legislative requirements.

Technical data

Power supply:	Type C (via battery)
Battery	
Type:	lithium, CR 123A
Voltage:	DC 3 V
Capacity:	1.4 A
Service life:	approx. 5 years
Quantity:	1
Current consumption	
Stand-by mode:	14 µA
Transmission mode:	55 mA
Low battery value:	2.4 V
Wireless	
Frequency band:	868.0 - 868.6 MHz
	868.7 - 869.2 MHz
Range (free field):	500 m (free field)
Transmission capacity:	max. 10 mW
Device - general	
Optical display:	Status LED (red/ green)
Ambient temperature:	-10 °C to +55 °C
Storage temperature:	-35 °C to +70 °C
Humidity:	93 %
Security grade:	2
Environmental class:	II
Conform to:	EN 300200-1
	EN 300200-2
	EN 50130-4
	EN 61000-6-3
	EN 301489-1
	EN 301489-3
	EN 62368-1
	EN 50131-2-7-1
	EN 50131-5-3
	EN 50131-1
	EN 50130-5
	EN 50131-6
Certification body:	Telefication B.V.
Dimensions (H x W x D):	55 x55 x 40 mm

Conformity

Gira Giersiepen GmbH & Co. KG hereby declares that the wireless system type item no. 5222 16 and 5223 03 are conform to Directive 2014/53/EU. The complete item number can be found on the device. The complete text of the EU Declaration of Conformity can be found either in the download area (gira.de/Konformitaet), or directly via the online catalogue at the product (katalog.gira.de).

Disposal

The Gira wireless glass-breakage sensor is an electric and electronic device in the sense of Directive 2012/19/EU.
High-quality materials and components were used in developing and manufacturing the device. These materials and components can be reused and recycled. Please consult the regulations governing the separate collection of electric/electronic waste applicable for your country. These devices may not be disposed of with household waste. The correct disposal of waste can prevent possible negative consequences to the environment and humans.

Warranty

The warranty is provided in accordance with statutory requirements via the retailer. Please submit or send faulty devices postage paid and with an error description to your sales representative (retailer / installation company / electrical contractor). The salesperson will forward the devices to the Gira Service Centre.

Gira

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