



niko Wireless Easywave Window Owner's Manual

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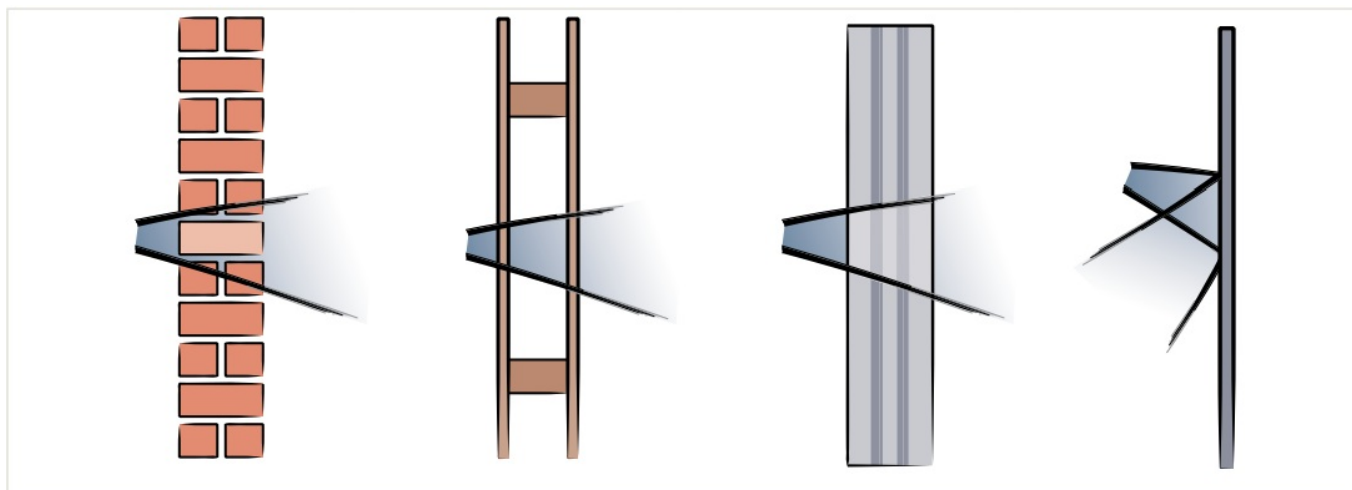
Read the complete user manual before carrying out the installation and activating the system. Keep the manual for future reference.

DESCRIPTION

The wireless Easywave window or door contact (transmitter) is used to control wireless Easywave receivers. A battery, mounting bracket with magnet and a mounting set are included. The product is part of the Easywave radio frequency system, a wireless installation technique between the push buttons (control points) and the consumers to be operated. The Easywave system is a modular system with transmitters and receivers. A wall transmitter has the form of a push button with two, four or eight action buttons and can be mounted on a wall. A hand-held transmitter looks like a traditional remote control unit. One transmitter can operate an unlimited number of receivers simultaneously, while one receiver can be controlled by a maximum of 32 transmitters. The remote control or wireless control operates on the basis of signal transmission via radio waves at a frequency of 868.3 MHz. This frequency only allows products that emit signals no more than 1% per hour or 36 seconds, which reduces the risk of interrupted signals to an absolute minimum. Therefore, the wireless Easywave system is excellently suited to specific applications, such as renovations of listed interiors, extensions of existing electrical installations (where drilling or channeling is not possible), for use in offices with moveable partitions or walls or in installations where complicated wiring must be avoided.

INSTALLATION

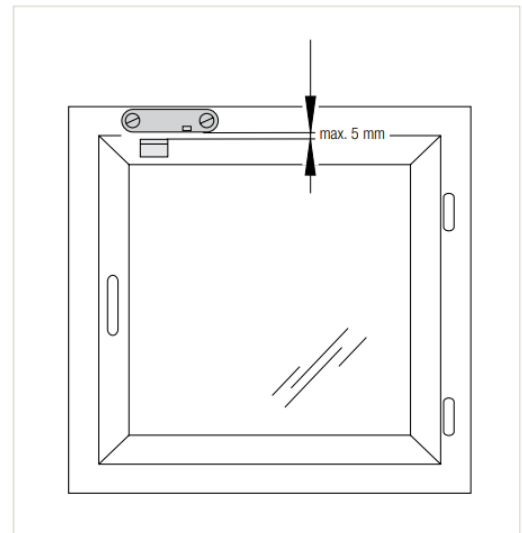
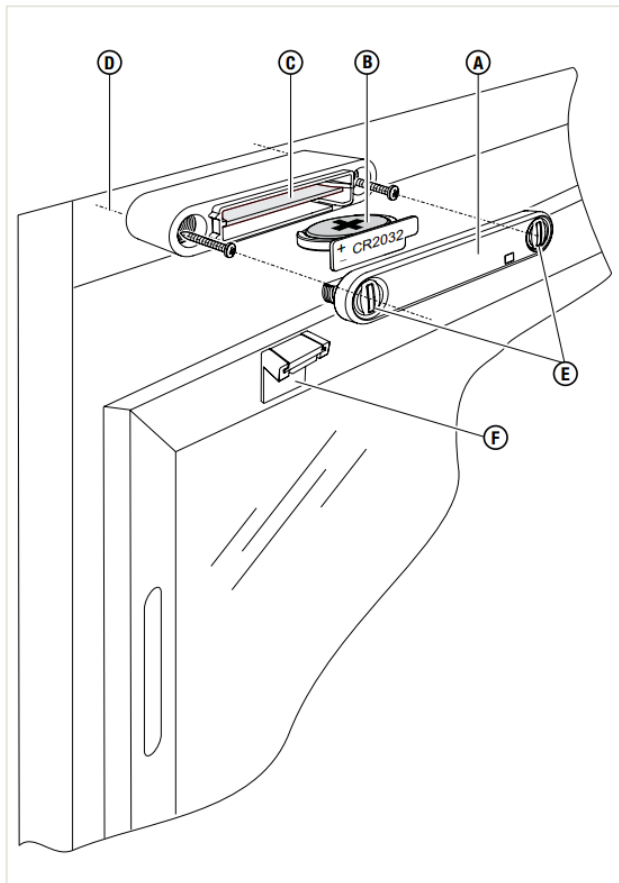
Mounting



Tip: Always take the local conditions and surroundings (Fig. 1) into account when you mount the contact.

Tip: Ensure that the wireless signal transmission between the receiver and contact is not obstructed. Place the receiver as close to the contact as possible. Tip: The presence of metal or moisture in the walls can negatively influence the range of the wireless signals (Fig. 1). Therefore, never place the contact:

- in a metal electrical cabinet, housing or netting.
- in the vicinity of large metal objects.
- on or close to the ground.
 - Screw opens the top of the contact (Fig. 2, A).



- Place the battery supplied in the battery holder (Fig. 2, B). The positive pole must be pointing upward.
- Slide the battery holder back into the contact between the battery spring and the printed circuit board (Fig. 2, C).
- Program the contact to the selected wireless Easywave receiver (see receiver manual). To do this, set the receiver in programming mode. Move the magnet over the contact surface of the contact (shaded part on the underside of the contact). The code is transmitted to the receiver.
- Mount the contact in a location of your choice (e.g., door or window) using the screws or adhesive strip provided (Fig. 2, D).
- Screw the top of the contact closed (Fig. 2, E).
- Affix the magnet to the door leaf or the window casement, precisely opposite the marked contact surface on the underside of the contact (Fig. 2, F).

The maximum allowable distance between the magnet and the contact is 5 mm (Fig. 3).

OPERATION AND USE

General operation

The wireless Easywave window or door contact (transmitter) is a magnetic contact that transmits the status of

objects via wireless signals to a wireless Easywave receiver. If the window or door is opened or closed, an Easywave code is transmitted, and the connected, wireless Easywave receiver switches, depending on the set operating mode.

Action	Result	LED signal
The window or the door is opened.	Code A (standard function) is transmitted.	The status LED on the front of the contact flashes red once.
The window or the door is closed.	Code B (standard function) is transmitted.	The status LED on the front of the contact flashes green once.

Detection range between Easywave hand-held transmitters and wireless Easywave receivers

The operation of devices that are controlled via a remote control unit, such as TVs or video and audio devices, is not disrupted by an Easywave hand-held transmitter. You are not required to optically aim the hand-held transmitter at the wireless Easywave receiver. The indoor detection range is approximately 30 m. In open spaces, a detection range of 100 m is attained. The range of the hand-held transmitter depends on the materials used in the residence. You can use a diagnostic device (05-370) to determine the wireless signal strength in a given area. The device recognizes all 868.3 MHz signals. Based on nine status LEDs, the reception quality of the transmission signal or the strength of the interference signals present is displayed. This way you can determine whether the range of the hand-held transmitter is sufficient. Figure 1 shows the loss of quality of the transmission range depending on the materials used. You can use a wireless Easywave repeater (05-535) in installations with insufficient range.

Battery

If the battery is empty, this is indicated via the status LED on the front of the contact, and a notification is transmitted.

Indication	Status	Action
<ul style="list-style-type: none"> – The status LED flashes red or green for three seconds. – A notification has been transmitted. 	The battery is almost empty.	You must replace the battery soon.
<ul style="list-style-type: none"> – The status LED flashes red two times in succession every nine seconds. – The contact is deactivated. 		
The status LED turns red after you have installed a battery.	The battery is empty.	You must replace the battery immediately.
The status LED turns red and stays red without flashing.	<p>Je hebt een eerdere melding genoegeerd om de batterij te vervangen. Het contact kan niet meer werken.</p> <p>De spanning van de batterij is te laag.</p>	

How do I replace the battery?

1. Screw open the top of the contact.
2. Pull on the lip to remove the battery holder from the contact, and replace the battery. Pay attention to the polarity: the positive pole must be visible.
Tip: Only use type CR2032 batteries.
3. Screw the top of the housing back onto the contact.

Attention: The coding of the contact is maintained even if the contact is live. After you have replaced the battery, you do not have to reprogram the coding on the selected wireless Easywave receiver.

TROUBLESHOOTING

1. If the Easywave system does not work after being programmed, you can always first perform a number of extra checks:
 - Check whether the shield between the battery and the contacts in the contact has been removed.
 - Check whether there is good contact integrity between the battery and the battery contacts.

- Check the operation of the connected receiver. Press the programming button (P) on the front of the receiver. If the status LED does not flash, the receiver is defective.
- Check the operation of the contact. Take the contact and walk toward the receiver:
 - – The Easywave system only works if you bring it closer to the receiver. Use a wireless Easywave repeater (05-535) to increase the range.
 - – If the Easywave system does not work at all, even when you bring the contact closer to the receiver, check the programming and/or the batteries of the contact.
- In the case of an existing installation, check whether the surroundings of the Easywave system have changed, possibly causing interference (metal electricity cabinet, walls, moved furniture ...). Restore the original arrangement, if possible.

2. If the problem with the device is not solved, then go through the following list of possible problems:

Problem	Cause	Solution
The receiver does not react to the contact.	The battery is empty or almost empty.	<ul style="list-style-type: none"> – Check the status of the battery. – If necessary, replace the battery.
	In certain situations, other wireless products that work on the same frequency and are located in the immediate vicinity of the contact and the receiver can cause interference.	Check whether the signal transmission between transmitter and receiver is not obstructed.
	The programming was not successful or was erased.	Program the codes again on the selected wireless Easywave receiver. To do this, consult the user manual of the receiver.

TECHNICAL DATA

dimensions	contact: 12 x 65 x 28 (HxWxD) magnet: 18 x 18 x 13 (HxWxD)
weight	contact: 20.6 g magnet: 2.2 g
frequency	868.3 MHz
modulation	FSK
power supply	3 V battery, type CR2032
power consumption	1.6 µA
range	approximately 150 m in open spaces
protection degree	IP54
operating temperature	-20 – +60°C
quality mark	CE marking in accordance with EN 60669-2-1


Support & contact

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Documents / Resources

	<p>niko Wireless Easywave Window [pdf] Owner's Manual Wireless Easywave Window, Easywave Window, Wireless Window, Window</p>
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References

- [Niko - home automation, switches, socket outlets and detector](#)