

SOREX wirelessKey 2.0

Your mobile is the key!



RFID card



Operating distance:
5cm

NFC



Operating distance: 5cm

Bluetooth-ID



Operating distance:
5cm-10m

Remote control



Operating distance
5cm-10m.

Manual

SOREX wirelessKey 2.0

www.sorex.eu

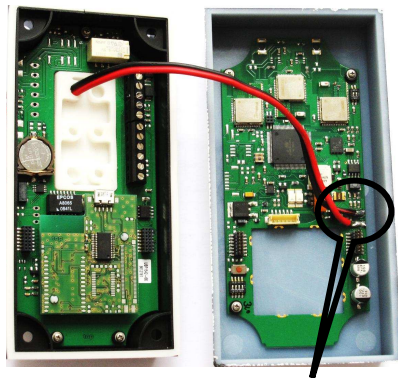
1 Welcome

Congratulations! You have purchased a SOREX wirelessKey 2.0 Module. SOREX wirelessKey 2.0 is based on the Bluetooth-technology. The system enables the usage as door-key on every Bluetooth mobile.

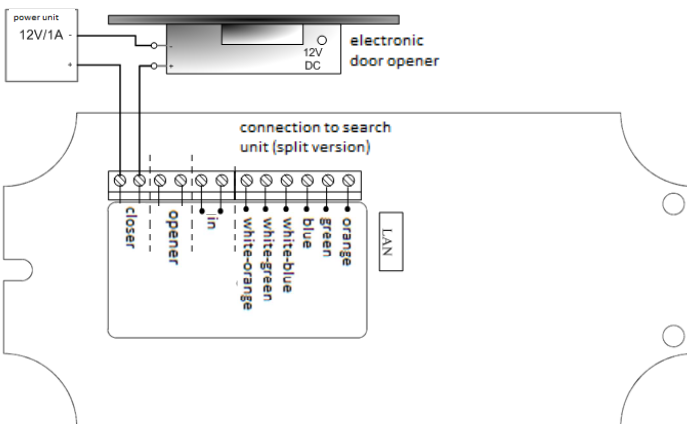
2 Installation

wirelessKey 2.0 internal doors (Combi Module) Art.No.:100251501

At the combi module of the wirelessKey 2.0 Systems reader- and switch-units are combined in one module. This device has to be installed outside beside the door. To put it into operation you just have to connect the wirelessKey with an electronic lock and the power supply.



Wiring diagram for an electronic opener:



Power supply:
black: Vin-/~
red: Vin+/~

wirelessKey 2.0 for external doors (split-version)

The split-version of the wirelessKey 2.0 systems is built up of a reading (installed outside) - and a switch-unit which is installed inside beside the door. The reading-unit detects authorized cell phones in the surrounding area. The switch-unit includes the whole logic, the surface to a computer and the switching output for the electronic lock.

The power supply for the system has to be connecting with the reading-unit. Both units are connected with and link patch cord.

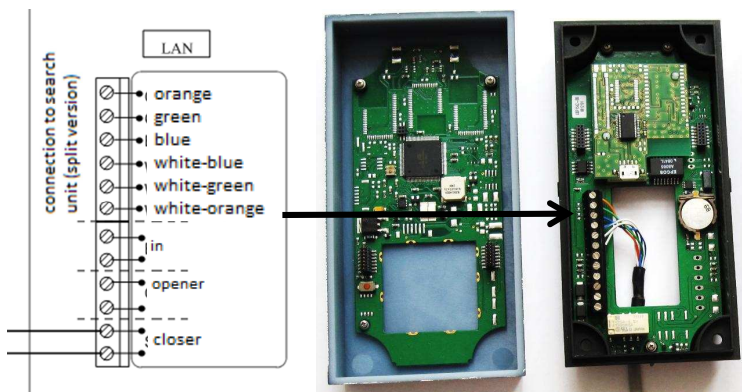
External unit (Reading-reader) Art.No.: 100251201

Using the including cable the reading-unit has to be connected with the switch-unit after the wall fastening is completed.



Internal unit (Switch-unit) Art.No.: 100251301

This unit is the logic- and switch-unit of the combi-system. The logic-unit includes a capacitive touch sensor which is able to open the door without using a cell phone. To activate the sensor you just have to touch the unit with a finger at the symbol. Please notice that this unit can't work if the two parts of the body are not connected.

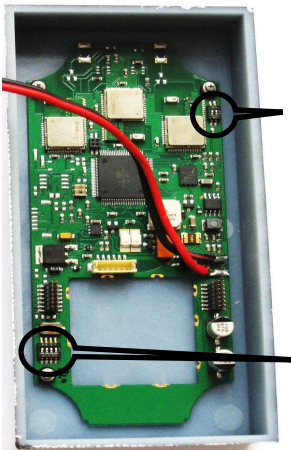


3 DIP-Switches

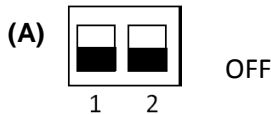
Using DIP-Switches you can modify important settings directly on the product. In order to do so simply turn the according switches on or off as depicted below.



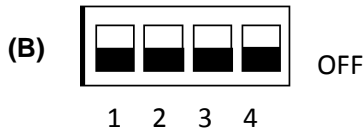
Switches must be used only when SOREX wirelessKey 2.0 is disconnected from the power supply! We recommend touching something like your radiator in order to avoid electronic charging of the human body before touching the switches.



This is where you find the switches on your unit::

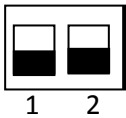


All switches are set on "off" by default = OFF

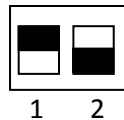


Setting up the range (A):

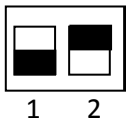
Reichweite: programmierbar (kurz, mittel, weit, maximale Reichweite)



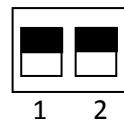
Short = Default



Long



Middle



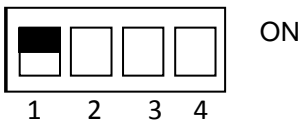
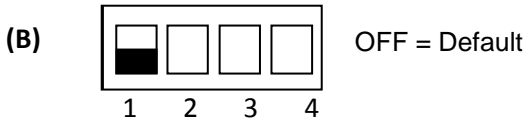
Max

Input/Multifunktional switch

To activate the input/multifunktional switch (the first Dip-Switch B) has to be at the position ON:

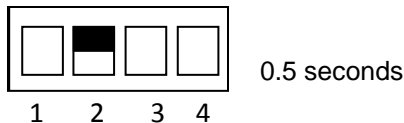
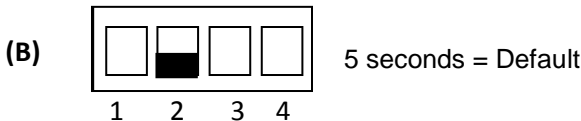
For a successful opening two conditions have to be acquitted:

- An authorized cell phone has to be in the surrounding area
- The switch at the front of the wirelessKey module has to be pushed or the input terminal has to be bypassed.



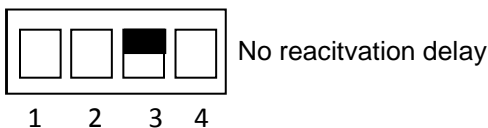
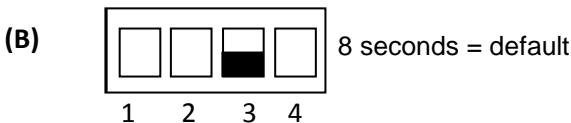
Relay response time

You can set how long the relay switches for the next mobile to be registered after the first one has come within range.



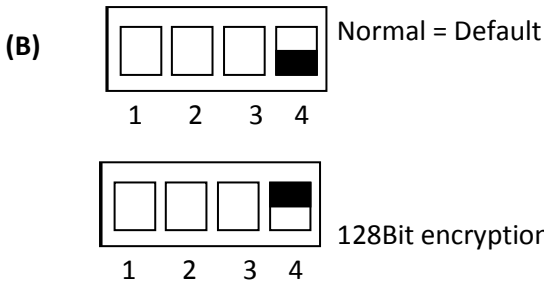
Reactivation delay:

You can set how long the unit delays the reactivation of the same device after being out of range to be connected again. (You want to avoid multiple unnoticed recognition and activation of the relay)



Security Mode

The mobile is being identified with two numbers in the security mode „normal“. When using the security mode „128Bit key“an additional 128bit encryption is applied. (Please notice that it takes one second longer for the device to recognize the mobile in 128bit mode.)



4 Adding a mobile

For adding a new user please follow steps 1 - 5.

Step 1: Activate Bluetooth on the mobile

Activate Bluetooth on your mobile and switch to visibility-mode ON. For further information please consult your mobile-phone manual.



You need to have the visibility mode permanently switched on in order to be recognized by the unit. It may be necessary to stay within the Bluetooth menu or switch the mobile to “secure-mode”. More information can be found in chapter 9.

Step 2: Hold the mobile in front of the SOREX wirelessKey 2.0 Module for at least 10 seconds

The mobile needs to touch the module. After about 10 seconds it will say "add.SOREX-w.Key" on the display. Accept the request and follow through.

Step 3: Enter PIN-Code

Now you are being asked for a PIN in order to connect with "add.SOREX-w.Key". Please find the code (Pairing-PIN) enclosed in the envelope of your SOREX wirelessKey 2.0 Module.



Please store the code at a safe place at it is mandatory for pairing additional mobile phones.

After entering the code press OK and your phone adds "add.SOREX-w.Key" to your list of paired devices. Please be aware that you must not delete "add.SOREX-w.Key" from your list in order to have access!

Step 4: Setting up the range of recognition

You can setup the recognition range for your mobile phones with the DIP switches or by software. Please find further information in the chapter "DIP-Switch".

Step 5: Finish

Now your mobile has access to the door.

Some mobiles ask if automatic recognition is desired. Answer this question with yes. There is a SOREX app for the Apple iPhone and the Android cell phone that switches the visibility mode on.



Note: It may be possible that the Apple iPhone does not register the module as "add.SOREX-w.Key" and "del.SOREX-w.Key" but as "Headset".

5 Deleting a paired mobile

In order to remove a paired user please follow steps 1-4. All users can be deleted the same way!

Step 1: Activate mobile phone

Activate Bluetooth on your mobile and switch visibility mode on. For details consult your mobile-phone manual. It may be necessary to stay within the Bluetooth menu and/or switch to the security mode. Please find further information in chapter 9.

Step 2: Keep the mobile directly over the SOREX wirelessKey 2.0 Module

Keep the mobile directly at the SOREX wirelessKey 2.0 Module for at least 30 seconds. The mobile needs to touch the module. After 30 seconds the connection "**del.SOREX-w.Key**" will be displayed. Accept the connection and press OK.

Step 3 Enter PIN - Code

Now you are being asked to enter the PIN. The delete PIN is identical on all SOREX wirelessKey 2.0 Modules. It is "**1234**".

You can also find the PIN in the envelope. After having entered the PIN your mobile adds **"del.SOREX-w.Key"** to your list. The SOREX wirelessKey 2.0 Module beeps four times when the procedure has been completed.

Step 4: Finish

Please delete **"add.SOREX-w.Key"** and **"del.SOREX-w.Key"** from your device list. Now you are disconnected from the module.



Note: It may be possible that the Apple iPhone does not register the module as **"add.SOREX-w.Key"** and **"del.SOREX-w.Key"** but as **"Headset"**.

6 Renewed adding or removal

If you want to add an already deleted mobile please delete **"add.SOREX-w.Key"** from your list of Bluetooth connections. Otherwise you cannot get access again.

If you want to delete a device again from your SOREX wirelessKey 2.0 module you need to remove **"del.SOREX-w.Key"** from you list of Bluetooth connections.

Note: You need to exit your Bluetooth menu if you want to add your mobile and then remove it afterwards.



If the pairing process fails repeatedly you need to delete some (or all) entries from your Bluetooth connection list.

7 Opening the door

For opening the door you do not need the code anymore once the mobile phone has been paired with the module. You gain access automatically once you are within range and your Bluetooth visibility mode is switched on.

Note that you need to be within range to gain access!

Once you are within range you have access and the door opens. This will be repeated if you have stayed out of range for at least 8 seconds. (You can also set the reactivation time to 0 seconds with the DIP-Switches.)

9 Security notice



Please be aware that you may come in contact with high voltage when installing the SOREX wirelessKey 2.0 Module. Only certified electricians may conduct an installation.

No other remedy shall be available regarding damages on installation of SOREX wirelessKey 2.0 System. (Voltage: 9-24 V DC, or 9-12V AC.)

10 Compatible mobile phones

The SOREX wirelessKey 2.0 Module has been tested with a wide range of mobile phones in the normal and 128bit mode. All are compatible with this module but a few exceptions.

The most important settings on your phone are:

- 1.) Bluetooth must be switched on.
- 2.) Bluetooth must be in visibility mode.

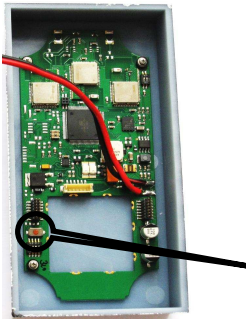
If your phone supports these two features SOREX wirelessKey 2.0 System can be used easily.

Please find below a list of phones for which special settings are required:

Mobile Phones	Compatibility
Apple iPhone	iPhone 3G/3GS could respond slowly to SOREX wirelessKey 2.0, please upgrade to IOS 4.0. It needs to be used with the SOREX App from the Appstore. Alternatively you can activate it from within the Bluetooth menu.
Motorola Racer	Bluetooth has to be switched to visibility mode every time.
Android	Can be used with SOREX-App of if you switch on Bluetooth visibility permanently.

This list is incomplete. Sorex does not give a guarantee for that all phones are compatible with SOREX wirelessKey 2.0

8 Reset

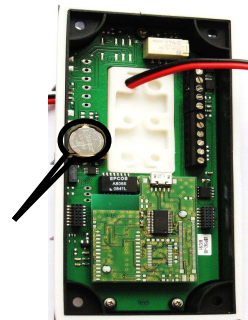


In order to restore default settings on the SOREX wirelessKey 2.0 Module a paired mobile needs to be within range with Bluetooth in Visibility mode switched on. Then you need to press and hold the red button on the back of the module for 16 seconds (until you hear the 4th beep).

Red switch

9 Battery

The included battery supplies the internal real-time-clock of the wirelessKey 2.0. This clock is necessary for the function “time- and calendar-function”, “logging” and depended-on-time codes.



battery

10 Software functions (additional)

Adding SOREX wireless KEY products into a database

Using the computer interface of the wirelessKey-product (USB, LAN or WLAN) you are able to add and administrate them by software.

Authorize of devices

It is possible to authorize and block cell phones, hand-held-transmitter, Mifare-Cards (NFC), RFID-Cards by software.

Logging und monitoring

A logging-list of the point in time a device has got access of a wirelessKey 1.1 or 2.0

Guest-Code

It is possible to create a PIN-code for guests. You are also able to use this PIN time-constrained. (Possible with wirelessKey 1.1 and 2.0)

Time-profile/calendar-date-profile

It is possible to create a time-profile/calendar-date-profile to define in which period of time a device is able to get an access. (Possible with wirelessKey 1.1 and 2.0)

Opening the door by software

It is possible to open the door by software. (Possible with wirelessKey 1.1 and 2.0)

13 Compatible mobile phones

The SOREX wirelessKey 2.0 Module has been tested with a wide range of mobile phones in the normal and 128bit mode. All are compatible with this module but a few exceptions.

The most important settings on your phone are:

- 1.) Bluetooth must be switched on.
- 2.) Bluetooth must be in visibility mode.

If your phone supports these two features SOREX wirelessKey 2.0 System can be used easily.

Please find below a list of phones for which special settings are required:

Mobile Phones	Compatibility
Apple iPhone	iPhone 3G/3GS could respond slowly to SOREX wirelessKey 2.0, please upgrade to IOS 4.0. It needs to be used with the SOREX App from the Appstore. Alternatively you can activate it from within the Bluetooth menu.
Motorola Racer	Bluetooth has to be switched to visibility mode every time.
Android	Can be used with SOREX-App if you switch on Bluetooth visibility permanently.

This list is incomplete. Sorex does not give a guarantee for that all phones are compatible with SOREX wirelessKey 2.0

11 Product Details

Power supply	9 to 24 VDC or 6 to 12 VAC, max 4W
Relais - output	max. 50 VDC - max. 2 A - max. 60 W
Input	Potential-free input/capacitive button
Timer	customisable (5 sec default)
Operating distance	customisable (short, middle, long, max)
Operating temperature	-20 °C to +60 °C
Dimensions	ca. 136 x 69 x 20 mm (LxBxH)
Colour	white
Interfaces	LAN / WLAN / USB
Safety class /assembly	IP54 / finery, in-wall, dry walling

12 Guarantee and liability

For this product SOREX Wireless Solutions grants a guarantee of six months if the invoice can be presented.

SOREX does not stand guarantor for damages or injuries caused by incorrect usage or usage against instructions in the manual. Claims for damage or claims for errors – regardless the reason – stemming from a faulty delivery or a faulty service by SOREX are excluded without exception. Please find all the details in the general terms and conditions (AGBs) of SOREX Wireless Solutions GmbH.

14 Support



SOREX – Wireless Solutions GmbH
Herzog Leopold Straße 5
2700 Wr. Neustadt
AUSTRIA

Tel.: +432622/32013-0
Fax: +432622/32013-15
E-Mail: support@sorex.eu
www.sorex.eu

Please read the general terms and conditions (AGBs) of SOREX – Wireless Solutions GmbH