OrangeBox

Installation Guide and User Manual



www.bekey.dk

2.0 August 2017

Congratulations on acquiring BEKEY OrangeBox.

BEKEY OrangeBox is a Bluetooth access control receiver.

As a corporate client you will have complete control and overview over access management for your properties and business. Run your daily operations more efficiently by taking advantage of the following benefits:

- Manage access remotely from your desktop.
- Send digital keys to employees, contractors and quests.
- Pre-set time limited or standard access according to the needs of your husiness
- Create virtual electronic key bundles that will save you time and resources.
- Administrate an unlimited number of users, keys and BEKEY devices through NETKEY.
- Gain access to detailed reports.
- Have your data protected with a highly secured encryption between the OrangeBox, the mobile devices and the NETKEY platform.

BEKEY Installation app

The installation of the BEKEY OrangeBox is done through the BEKEY Installation app. In order to install a BEKEY OrangeBox, an installation job needs to be ordered by the NETKEY Admin. When an installation order is registered in NETKEY, the installation job becomes visible in the installation app. Check the Installation app manual for more details.

Distribution of digital keys

For corporate accounts, access management and distribution of keys are administered through NETKEY cloud-based software. Check the NETKEY manual for more information or contact operations@bekey.dk.

*Be sure to read this guide completely before installing and using the BEKEY OrangeBox.

*We recommend that the OrangeBox unit is installed by a professional electrician.

This guide includes:

- BEKEY OrangeBox product specification
 - 1.1 Product description
 - 1.2 Product specifications
 - 2. Requirements for installing BEKEY OrangeBox
 - 2.1 Power supply
 - 2.2 Supported operating systems
- 3. Downloading the BEKEY app
- 4. BEKEY OrangeBox for corporate clients
- 5. Technical guide for installing the BEKEY OrangeBox
 - 5.1 Mechanical installation
 - 5.2 Electrical installation
 - 5.2.1 Wiring diagram model 1
 - 5.2.2 Wiring diagram model 2
 - 5.3 Safety instructions
 - 5.4 BEKEY OrangeBox during operation
- Troubleshooting
- Warranty

1.BEKEY OrangeBox product specification

1.1 Product description

The BEKEY OrangeBox is a device designed to operate on 6V-24V AC/DC and is used on Bluetooth**IE mode. The device is installed behind a door entry phone or other type of gate systems. Based on unlock commands from cell phone/tablet, the unit opens the door/gate. The unit is compatible with electric strikes, oate systems, marquock systems, cargace doors etc.

Electronic keys are distributed via NETKEY. Upon an open command, the OrangeBox will pull the relay, thus supplying the electric strike and opening the door. The unit may be used for other kinds of locks that can be opened through the relay function.



1.2 Product specifications

Dimensions	87 mm x 13 mm x 31 mm (L x W x H) 3.43 in x 0.51 in x 1.22 in (L x W x H)
Supply voltage range	6V-24V AC/DC
Maximum current drawn through the relay	Max. 24V 1.0A
Average current consumption	15 mA average
Wiring	50 cm (1.64 ft) cord for relay and power supply connection The BEKEY OrangeBox should be connected to a wire of maximum 30 m (2 98 ft.) to ensure a proper functioning of the device.
Power consumption	0.1 W - 0.4 W
Temperature range	-10 °C to 50 °C (14 °F to 122 °F)
Humidity	Range should be between 30% - 90% relative humidity

2. Requirements for installing BEKEY OrangeBox

2.1 Power supply

Connection to a power supply that provides 6V-24V. Stabile and dry environment.

2.2 Supported operating systems

BEKEY OrangeBox is operated via Bluetooth®LE and is supported by the following systems:

Apple

- · iPhone 4S or newer
- · iPad 3 or newer
- · iOS 8 or newer



Android

· Android version 4.3 or newer



*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc., and any use of such marks by BEKEY is under license. Other trademarks and trade names are those of their respective owners.

3. Downloading the BEKEY app

The BEKEY app can be downloaded free from Google Play, if you have an Android phone or App Store if you have an iPhone.

Make sure your cell phone has a stable internet connection, while downloading and installing the BEKEY app.



4. BEKEY OrangeBox for corporate clients

After downloading the BEKEY app, select corporate account type. The user is required to log in with a user name, customer account number and password. These login credentials are sent automatically through a text message to every user that is created by the administrator in the NETKEY platform. After creating the corporate account, proceed with the installation of the unit, section !

NETKEY is a cloud based platform that allows the corporate clients to:

Create and edit users

Send or delete keys

Create and edit key bundles

Have access to different type of reports; battery status, statistics regarding openings, user logs etc

Order installation or removal of BEKEY units

*A user manual for NETKEY will be provided separately for corporate customers.

5. Technical guide for installing BEKEY OrangeBox

5.1 Mechanical installation

The OrangeBox can be mounted with double sided tape or using a cable tie through the cable eye on the box. The cable eye can be removed with a cutter if there is no need for it. When making a visible assembly of the door unit, place it indoor, in a membrane can, or a similar box.



5.2 Flectrical Installation

The door unit is mounted with 50 cm (≈ 1.64 ft.) cable with four leads.

Two leads (red and black) for voltage supply and two leads (orange and brown) to activate the door lock.

eads (orange and brown) to activate the door lock.

The supply voltage (VCC1 and VCC2) can be both direct current (DC), regardless of polarity and alternating current (AC).

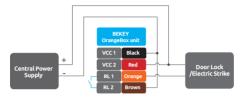
VCC 1 Black

VCC 2 Red RL 1 Orange

RL2 Brown

The door lock is activated via a potential free normally open contact (RL 1 and RL 2).

5.2.1 Wiring diagram Model 1 (this covers the most common use cases).



5.2.2 Wiring diagram Model 2



5.3 Safety instructions

In order to work properly the unit needs to be protected from humidity and extreme weather conditions

- 1. Do not disassemble the unit.
- Do not spray water on the indoor unit. Do not keep the unit where it will be exposed to moisture.
- 3. Do not overload the power supply and relay.
- 4. Do not drop or shock the unit.
- 5. Do not place any naked flames (e.g. lighted candles) near the apparatus.
- 6. Do not cover the ventilation holes with clothing, paper, curtains etc.
- This apparatus is designed for moderate climates. Do not use it in high humidity, dusty or dirty areas.
- 8. Do not use solvents for cleaning
- 9. To disconnect or isolate the unit, switch off at the power supply.

5.4 BEKEY OrangeBox during operation



After the first opening command is sent through the app, the LEDs will turn off automatically.

6. Troubleshooting

Solving a problem with door opening

Step 1: Check that the wires are properly connected and the unit has a stable voltage supply.

Step 2: Check that the app is searching for doors.

Step 3: Hold the phone closer to the BEKEY unit.

Step 4: Update the keys by pressing "Reactivate keys".

Step 5: Check that Bluetooth® is activated.

7. Warranty

This BEKEY product comes with a three-year manufacturer's warranty (from the original date of purchase). Proof of purchase must be presented before the warranty can be honoured.

The warranty only covers material defects and errors in the manufacturing of this product. The warranty does not cover errors or defects in the product caused by incorrect use, misuse, damp, heat, human error, faulty installation and any other factors referred to in sections 1.2 and 5.3. The warranty only covers those cases referred to and/or approved by BEKEY. The warranty will not be valid if the product is used or set outside the specifications laid down in this manual (temperature range, voltage, etc.).

BEKEY is not responsible for damage caused by third-party products.

If the warranty is invoked, BEKEY reserves the right to repair the product or replace it with a new or correspondingly renovated product.

The product can be returned to the distributor it was purchased from and in accordance with the regulations set forward by the respective distributor.

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)

This symbol on the product and / or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product to designated collection points where it will be accepted free of charge.



Alternatively, in some countries you may be able to return your products to your local retailer upon opurchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For business users in the European Union.

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union.

This symbol is only valid in the European Union. If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.

BEKEY OrangeBox CE conformity:

This product is compliant with the relevant requirements in Council Directive RED 2014/53/EU.

The corresponding declaration of conformity can be found on http://www.bekey.dk



BEKEY Customer Support Email: operations@bekey.dk www.bekey.dk