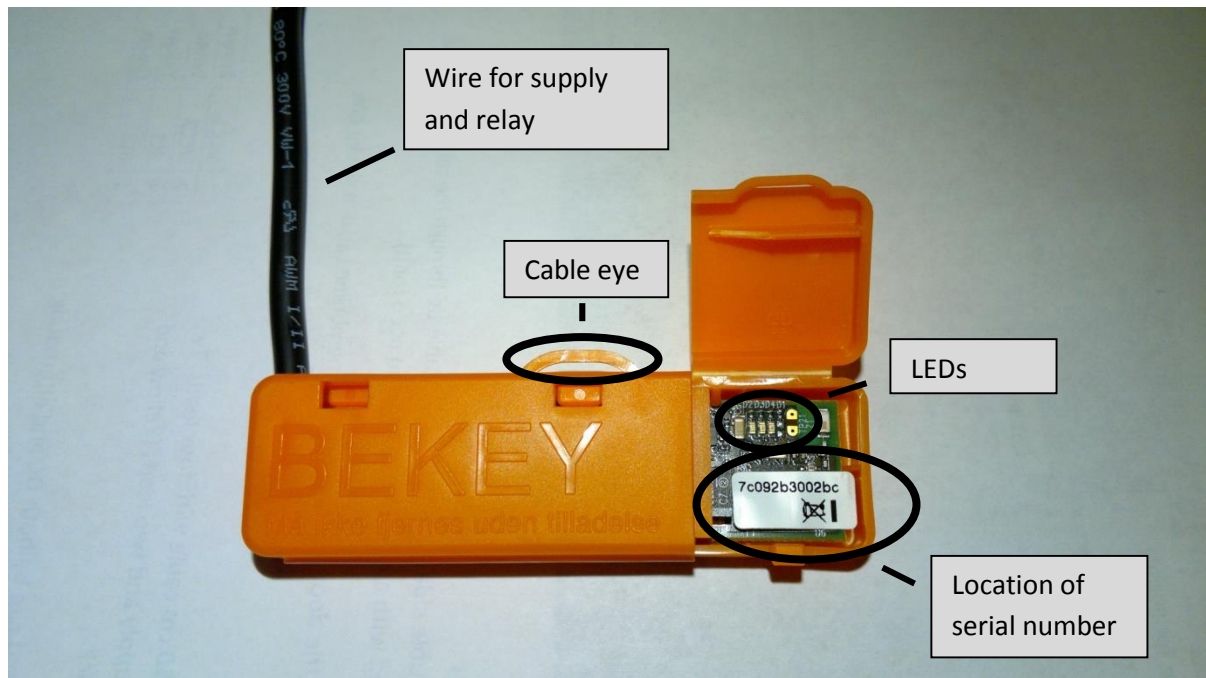


## Entrance Door Unit – BEKEY4.0 DE2



### Mechanical Installation

The Entrance Door Unit may only be installed by certified electricians and must fulfill all requirements given by this installation guide. The door unit must be enclosed in a way, where attempts to gain access to the door unit are prevented and where a spacing of at least 0.5 cm from the unit to the user is ensured at all times.

The Orange Box can be mounted with double sided tape or using a cable tie through the cable eye on the box. The cable eye might 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 which prevents direct access to the door unit using either screws, glue or similar.

### Electrical installation

The door unit is mounted with 50 cm ( $\approx 1.64$  ft.) cable with four leads. Two leads (red and black) to supply and two leads (orange and brown) to activate the door lock.

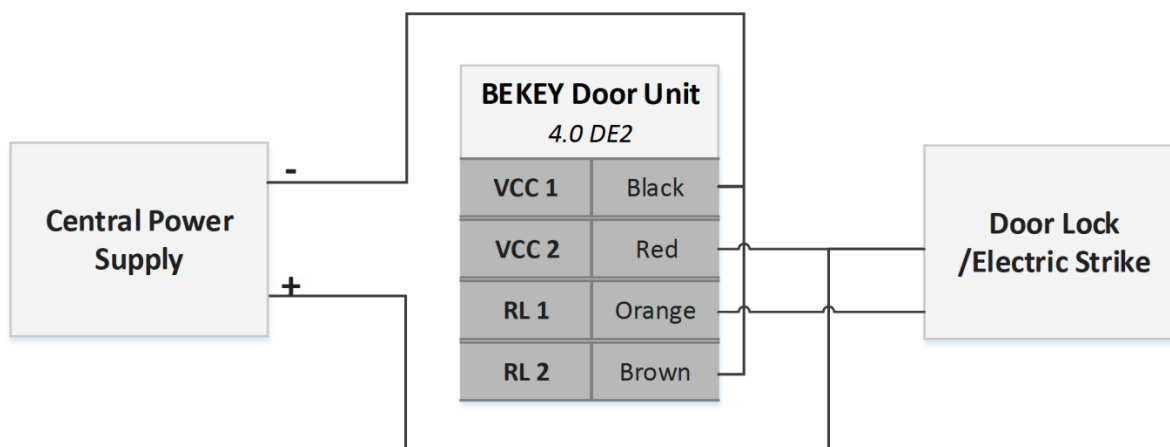
VCC 1	Black
VCC 2	Red
RL 1	Orange
RL 2	Brown

# BEKEY Installation Guide

The supply voltage (VCC 1 and VCC 2) can be both direct current (DC), regardless of polarity, and alternating current (AC).

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

Due to the risk of lightning, the door unit should not be connected to a wire longer than 30 m ( $\approx$  98 ft.).



The door unit must be connected to a central power supply. The door lock is supplied through the relay.

## BEKEY during operation

When the Door Unit is connected to the power supply, a red LED will flash, indicating that the CPU is running. A flashing yellow LED indicates Bluetooth<sup>®1</sup> communication, and the green LED indicates that the relay is being pulled. The LEDs should be turned off using the Install App when the unit is found to function correctly.

## BEKEY specifications

Supply Voltage	6-24 V AC <sub>RMS</sub> /DC
Relay for the door lock	Max. 24 V 1.0 A
Current consumption	15 mA average
Dissipated Power	0.1 W – 0.4 W Calculated using: $P = U \cdot I$ E.g. $24 \text{ V} \cdot 15 \text{ mA} = 360 \text{ mW}$ and $6 \text{ V} \cdot 15 \text{ mA} = 90 \text{ mW}$
Temperature range	-10 °C to 50 °C (14 °F to 122 °F)
Humidity	Max. 90 % relative
Dimensions (H*W*D)	Incl. cable eye: 87 · 31 · 13 mm ( $\approx$ 3.42 · 1.22 · 0.52 inches). Excl. cable eye: 87 · 27 · 13 mm ( $\approx$ 3.42 · 1.06 · 0.52 inches).

<sup>1</sup> The Bluetooth®-trademark and -logos are property of Bluetooth SIG, Inc. and any use of these trademarks by BEKEY A/S are licensed.

# BEKEY Installation Guide

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## Product marking

### FCC:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commissions rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

The Bekey as DE2 has been designed and complies with the safety requirements for portable (>0.5cm) RF-exposure in accordance with FCC rule part §2.1093 and KDB 447498 D01.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operation in conjunction with any other antenna or transmitter.

# BEKEY Installation Guide

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## **Industry Canada:**

This device complies with RSS-247 of the Industry Canada Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Ce dispositif est conforme à la norme CNR-247 d'Industrie Canada aux appareils radio exempts de license. Son fonctionnement est sujet aux deux conditions suivantes:

- (1) le dispositif ne doit pas produire de brouillage préjudiciable, et
- (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé.



**BEKEY Entrance Door Unit declaration of conformity:**

This product is compliant with the relevant requirements in Council Directive 99/5/EC on Radio equipment and telecommunications equipment and the mutual recognition of their conformity.

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

Bluetooth® QD ID: B020471



**WEEE-symbol with the crossed-out wheeled bin:**

The symbol with the crossed-out wheeled bin printed on the product indicates that the product should not be disposed of with household waste, but should be disposed of separately. It is the responsibility of the user to make sure that the electrical and electronic products are handed on to a dedicated collection facility at the end of its lifetime. This requirement is applicable in the European Union.