



#### ORDER-CODES:

[KXC-KN4-IP55](#), [KXC-KN4-IP66](#), [KXC-KN4-IP55-BLE](#), [KXC-KN4-IP66-BLE](#)

[DATASHEET KXC-KN4](#)

## Overview

The Kentix DoorLock-DC PRO is a compact battery-operated electronic knob cylinder with radio. The knob cylinder is designed for locking and unlocking locks in building doors. Depending on the product variant, the knob cylinder can be used indoors and outdoors. Both variants have resistance class 2 according to DIN 18252. RFID transponder carriers with MIFARE®DESFire® can be used as keys.

The electronic knob cylinder is networked by radio with an AccessManager radio. Up to 16 DoorLock radio components can be taught into one AccessManager radio. The configuration is done via the integrated web server of the main device (operating mode: Main-Device).

The DoorLock-DC-PRO is available in two wireless technologies, namely **BLE 2.4GHz** and **868MHz**.

DoorLock components with different radio frequencies cannot be operated on one AccessManager. AccessManagers with different wireless technologies can be networked with each other. When selecting the wireless components, make sure you use the correct wireless technology. For new projects, we recommend **BLE 2.4GHz** as the wireless technology.

## Safety instructions

### Installation

Installation and commissioning may only be carried out by trained specialist personnel in accordance with the instructions.

No modifications of any kind, other than those described in an appropriate manual, are permitted to Kentix GmbH products.

Certain levels of protection must be provided when installing Kentix equipment.

Observe the relevant regulations for installations in the respective environment.

Only operate the products within the defined temperature range.

The instructions should be passed on to the user by the person carrying out the installation.

Kentix accepts no liability for damage to the equipment or components resulting from incorrect installation. No liability is accepted for incorrectly programmed units.

Kentix shall not be liable in the event of malfunctions, damage to property or other damage.

### Use of the products, transport and storage

Protect the device during transport, storage and operation from

Protect moisture, dirt and damage.

### Battery powered products

Do not use products in potentially explosive atmospheres.

Only operate the products within the defined temperature range.

Installation and battery replacement may only be carried out by trained personnel in accordance with the instructions.

Do not charge, short circuit, open or heat batteries.

When inserting the batteries, pay attention to the correct polarity.

The devices must always be operated with the batteries intended for the product.

When changing batteries, always replace all batteries.

Dispose of old or used batteries properly.

Keep batteries out of the reach of children.

### Maintenance

Kentix devices must be checked for functionality as part of annual maintenance.

### Disposal

Electrical appliances and batteries must be disposed of separately from household waste.

## System topology

An illustration of the SmartAccess system topology can be found [here](#).

## Mastercard set



Kentix master cards

The master card set is used to prepare the DoorLock devices with radio for operation. All IP wall readers that are connected via the SmartRelay are excluded. With the service key card, the radio components such as knobs, door handles or wall readers are integrated into the radio network and the communication is encrypted. Only one master card set is required per system or installation. We recommend using an extra set of master cards for each project.

Keep the system card with the system key imprinted on it in a safe place, ideally in a safe. This system card is necessary for reordering in case of loss or defect of a service card. In case of complete loss of the system card and service card, only a very costly recovery at the factory is possible!

## Resetting the components with the service key

Relearning or resetting can be helpful, for example, to put a system into operation for testing purposes. The components can then be relearned at the customer's premises using their service key. This procedure is also important when returning components. Relearning a lost service key involves hardware intervention at the factory and service costs.

1. The Servicekey card (**YELLOW**) in front of the reader unit of the device and hold it there until programming mode is automatically terminated. **Then briefly (approx. 2 seconds) remove the card.**
2. Hold the service key in front of the reader again and leave it there. The DoorLock device signals the deletion process with short tones. **Leave the service key card in front of the reader until the signaling stops.**
3. The device or card set has been reset and can be taught in again.

## Commissioning

We recommend commissioning before assembly.

### Prepare device

1. Place the magnet on the marked spot (round recess) of the knob shell
2. Pull off knob casing and insert battery (type CR2)
3. Push the knob casing onto the knob up to the rubber seal
4. Place the magnet on the marking of the knob sleeve and push the sleeve on as far as it will go.

## Set up service key

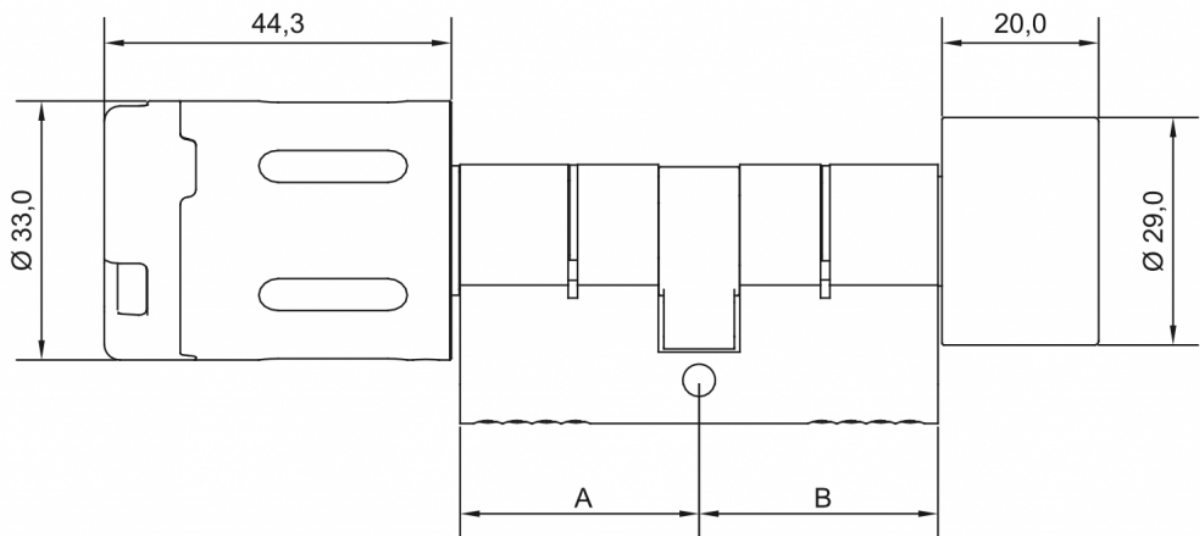
1. Hold the service key (**yellow**) for approx. 1 second in front of the pusher to activate it.
2. Hold the service key again briefly in front of the knob. The service key is now programmed

## User and access management

The administration of users and access rights is done on the main device of the installation with KentixOne.

All information about the software is available in the [KentixONE](#) section.

## Dimensions DoorLock KXC-KN4



The lengths **A** and **B** are different depending on the cylinder required. To find out which cylinder lengths to use, the following guide can be used: [Correctly measure locking cylinder](#)

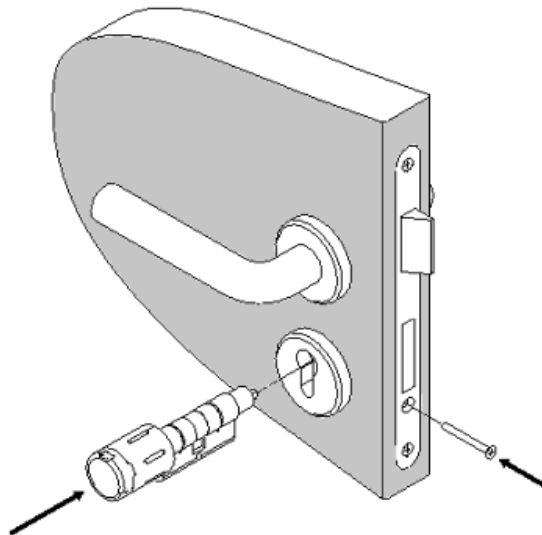
## Mounting

Only a few steps are required for the installation.

| Step   | Note  |
|--|---|
| Remove the faceplate screw and pull the existing cylinder out of the door. | Each Kentix profile cylinder comes with a new forend screw. |

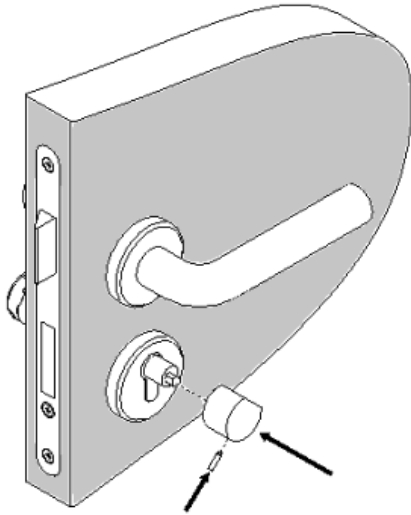
|  |  |
|--|--|
| <p>Insert the Kentix profile cylinder into the door. Then insert the face plate screw and tighten it hand-tight, do not use a cordless screwdriver with a high torque.</p> | <p>The electronic rotary knob is already attached to the profile cylinder. Therefore, insert the profile cylinder into the guide from the outside of the door.</p> |
| <p>The mechanical knob is placed on the end of the cylinder housing and secured with the grub screw.</p>   | <p>It is important to ensure that both the axis of rotation and the knob holder are flattened and that they are flush with each other.</p>                         |
| <p>The installation is completed. If not already done, the knob can now be programmed with the card set.</p>   | <p>Programming of the master card set in the knob should already be done before installation on the door.</p>  |

### Installation steps



#### DoorLock PRO mounting cylinder

Insert the cylinder housing together with the electronic knob into the lock . Tighten the face plate screw hand-tight, do not use a cordless screwdriver with high torque.



#### DoorLock PRO mounting knob

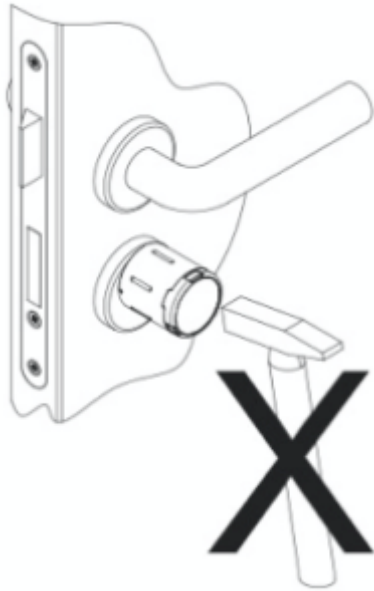
The mechanical knob is placed on the end of the cylinder housing and secured with the grub screw. Make sure that both the axis of rotation and the knob holder are flattened and that they are flush with each other.

The cylinder must not protrude more than 1 to 3 mm from the fitting or protective fitting that closely surrounds it. However, this must not be installed recessed in the fitting. It should also be noted that the cylinder body is not braced in the door. For this purpose, after tightening the faceplate screw and before mounting the radio door knob, the free movement of all components should be checked.



If the radio door knob and cylinder were not supplied assembled, one or two drops of a resin-free oil

(ORDER-CODE: KXC-PLS50M) must be added to the cylinder body during initial installation before mounting the knob module. It must not be sprayed directly into the cylinder body with the spray can.



During installation, no external forces may act on the radio door knob and/or the cylinder body.

## Battery warning

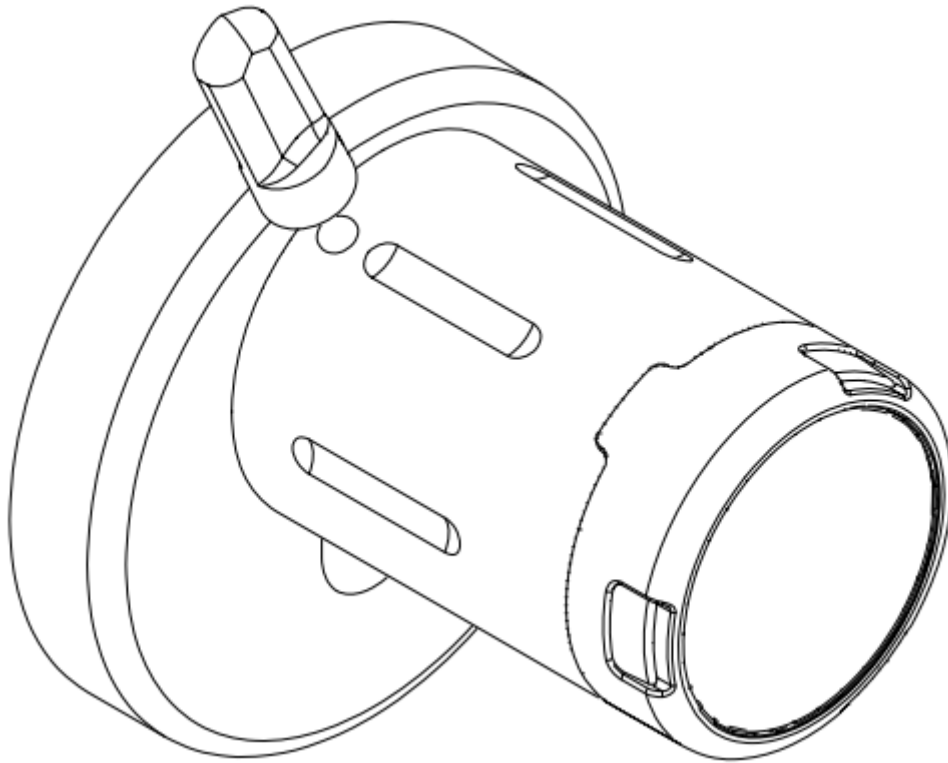
When the power of the batteries decreases, audible and visual warnings are generated by the device. This happens with decreasing battery power in 3 phases, during which, in addition to the warnings, the function of the device is limited. This is done in order to conserve the batteries as much as possible in the final stages and to allow them to be changed.

| Phase             | Signaling                                       | Function   | Urgency   |
|-------------------|---|--|---|
| Phase 1           | 5 short tones, simultaneously LEDs flash 5x red | Full function  | A battery change will be necessary soon.        |
| Phase 2           | 5 short tones, simultaneously LEDs flash 5x red | 5 seconds delay of engagement, at the same time LEDs flash green | A battery change must be performed immediately. |
| Complete emptying | No signaling                                    | No function  | A battery change must be performed immediately. |

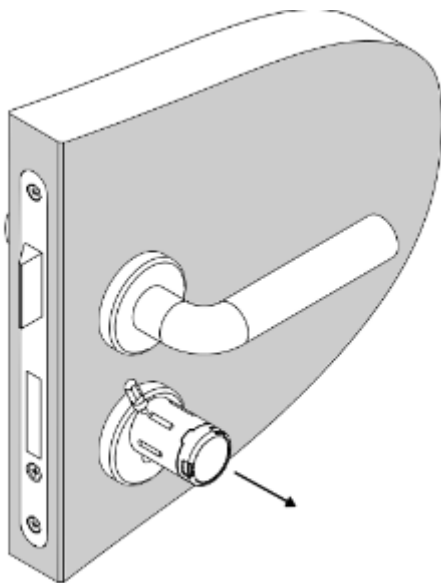
Table battery warning

## Battery change

Place the battery replacement tool on the marked spot of the knob casing.

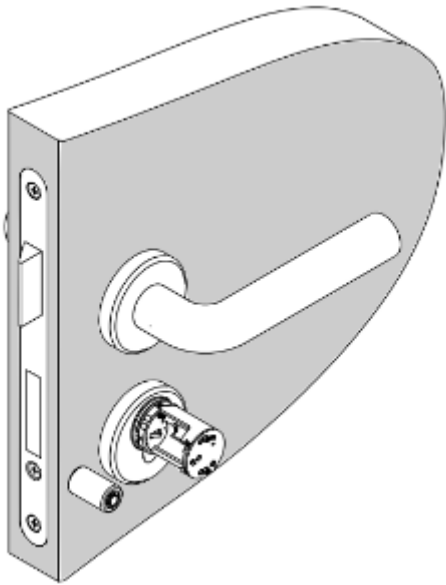


With the battery replacement tool in place, pull off the knob casing.

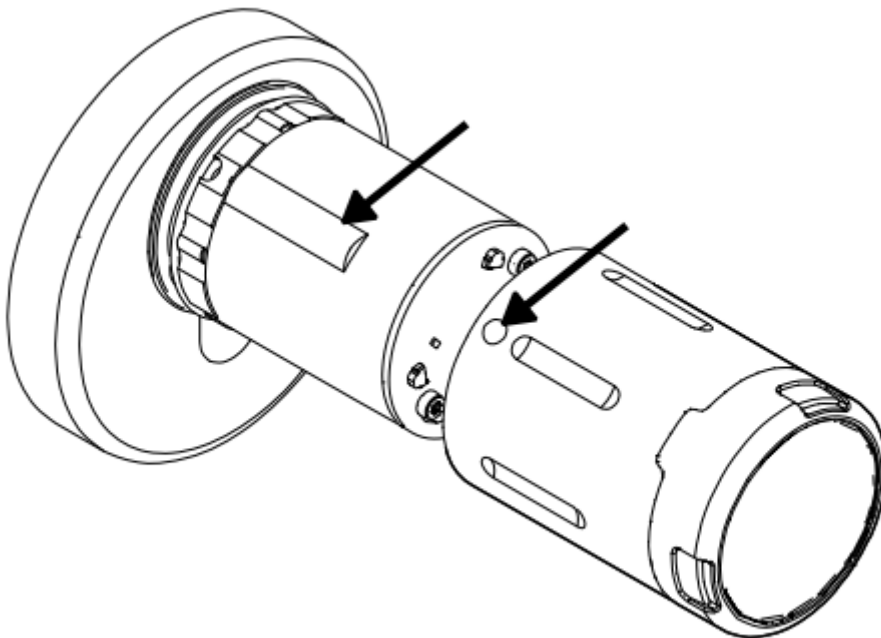




Remove the used battery and insert a new one, paying attention to the polarity.

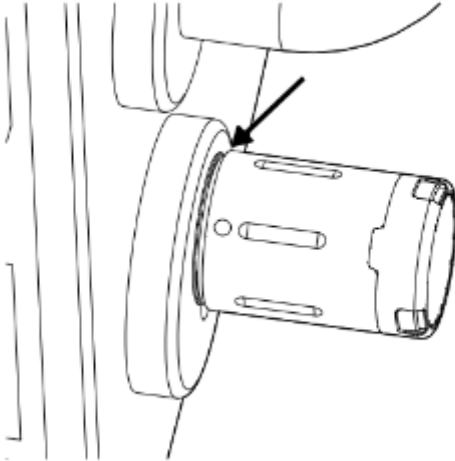


Push the knob casing onto the knob as far as it will go so that the marked point on the knob casing is aligned with the protruding plastic part on the knob.

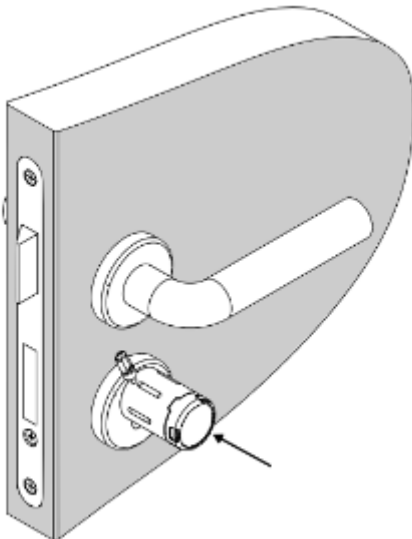


The knob casing must be pushed on so far that only the rubber seal is visible. If this is not the case, hold the knob and turn the knob sleeve slightly back and forth on the knob until the knob sleeve can

be pushed on up to the rubber ring.



Place the battery replacement tool on the marking of the knob casing and push it together onto the knob as far as it will go. Then remove the battery replacement tool from the knob shell and test that it is firmly seated on the knob by pulling on the knob shell.



## Maintenance

Maintenance and care of the cylinders or the entire lock should be performed at least once a year (more often in case of heavy use). Care must be taken to ensure that all door components move

smoothly.

For maintenance, do not use contact or cleaning sprays such as WD40

## Signaling

| Function                          | Signal and explanation(868MHz)  | Signal and explanation (BLE 2.4GHz)  |
|-----------------------------------|---|--|
| First booking after commissioning | long tone and orange LED  | long tone and orange LED   |
| Programming mode start            | Long tone followed by a short tone  | Long tone followed by a short tone   |
| Programming mode                  | LEDs flash green  | LEDs flash blue  |
| Programming mode end              | short tone followed by a long tone  | short tone followed by a long tone   |
| Key taught                        | 2 short tones, LEDs light up green  | 2 short tones, LEDs light up blue  |
| Key authorized                    | LEDs light green  | LEDs light blue  |
| Key not authorized                | long low tone, LEDs light up red  | long low tone, LEDs light up red   |
| Emergency access                  | no sounds, only the green LED flashes   | no sounds, only the blue LED flashes   |
| Battery warning phase 1           | 5 short tones, simultaneously LEDs flash 5x red   | 5 short tones, simultaneously LEDs flash 5x red  |
| Battery warning phase 2           | 5 short tones, at the same time LEDs flash 5x red, then 5s delay of engagement, at the same time LEDs flash green | 5 short tones, at the same time LEDs flash 5x red, then 5s delay of engagement, at the same time LEDs flash blue |
| Battery warning phase 3           | 5 short beeps, simultaneously LEDs flash 5x red, no engagement, but battery change position                       | 5 short beeps, simultaneously LEDs flash 5x red, no engagement, but battery change position                      |
| Coupling error                    | 5 short tones, 2 long tones. Contact support at support@kentix.com  | 5 short tones, 2 long tones. Contact support at support@kentix.com   |

Table signaling