Door knob (radio) DoorLock-DC BASIC – MANUAL



ORDER-CODES:
KXC-KN1, KXC-KN2

DATASHEET KXC-KN1, KXC-KN2

Overview

The Kentix DoorLock-DC Basic is a battery-operated electronic knob cylinder with radio control. 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. 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 programmed into one AccessManager radio. The

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configuration is done via the integrated web server of the main device (operating mode: Main-Device).

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 may be made to Kentix GmbH products, with the exception of those described in the relevant instructions.
When installing Kentix devices, certain degrees of protection must be guaranteed.
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 devices or components caused by incorrect installation. Kentix accepts no liability for incorrectly programmed units.
Kentix accepts no liability for faults, material damage or other damage.
Use of the products, transport and storage
Protect the device from
moisture, dirt and damage during transportation, storage and operation.
Battery powered products
Do not use the 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 specialist personnel in accordance with the instructions.
Do not charge, short-circuit, open or heat batteries.
Observe the correct polarity when inserting the batteries.
The devices must always be operated with the batteries intended for the product.
When changing the 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

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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

When resetting wireless locking components, the programmed service key is retained. All additional cards such as battery replacement and removal cards for BASIC models and stored authorizations for emergency access are deleted. This step is used for troubleshooting and diagnostics on site.

Our support team will ask for the number of the corresponding system card for any tests/repairs at the factory.

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.

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Prepare device

1. Pull off knob cover (See battery change)
2. Pull out the lock from the battery compartment

Set up programming card set

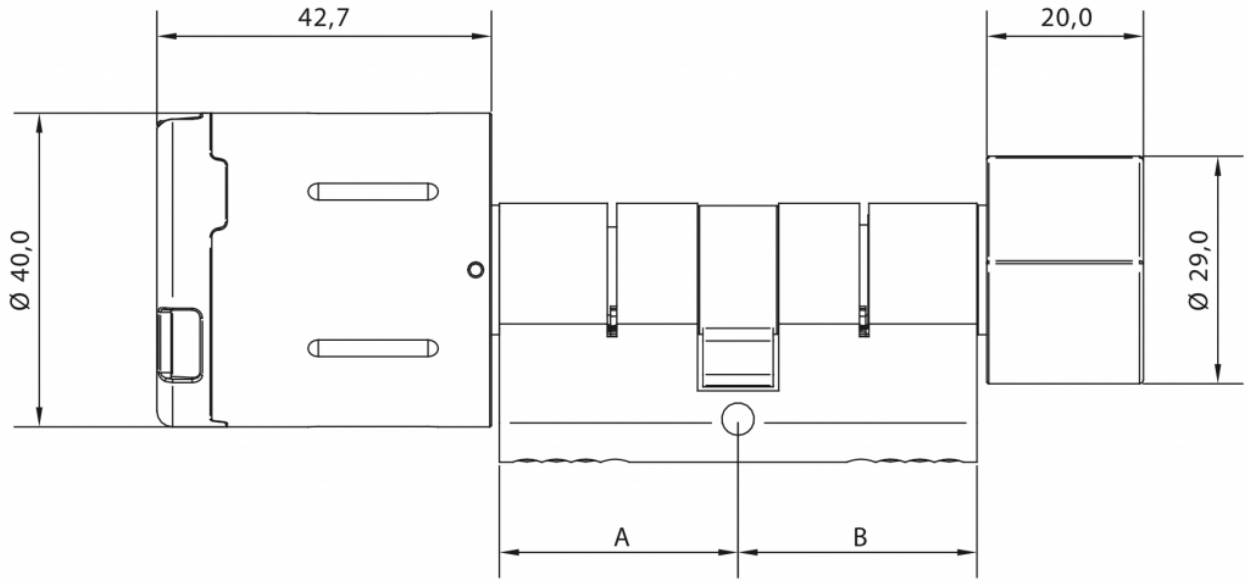
1. Hold the service key **(yellow)** in front of the knob for approx. 1 second to activate.
2. Hold the service key again briefly in front of the knob. The service key is now programmed.
3. Hold the service key briefly in front of the knob again to start the programming mode.
4. Hold the battery replacement card**(green**) in front of the knob **until a signal tone sounds**.
5. Hold the disassembly card**(blue**) in front of the knob **until a signal tone sounds**.
6. Hold the service key in front of the knob to complete the process.

User and access management

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

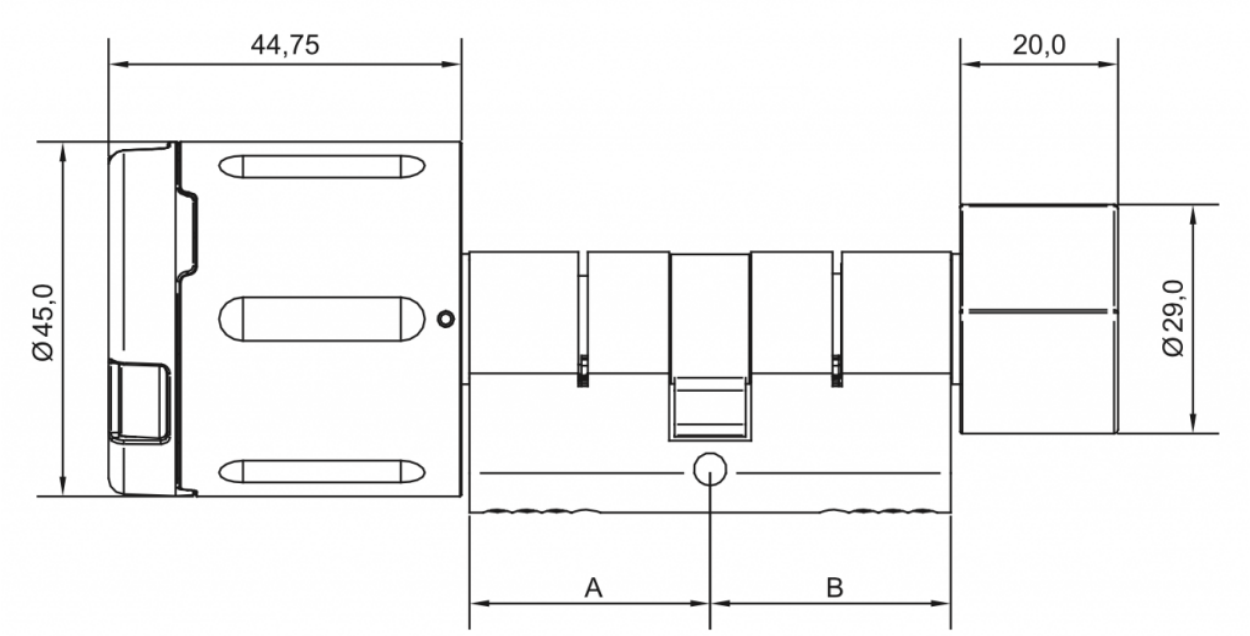
All information about the software is available in the KentixONE section.

Dimensions DoorLock KXC-KN1



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Dimensions DoorLock KXC-KN2



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

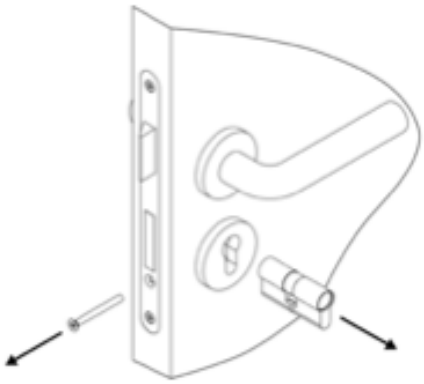
Mounting

Only a few steps are required for the installation. Please proceed as follows:

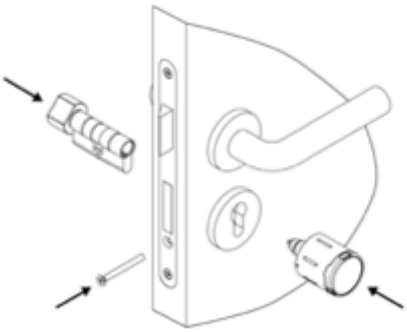
Step	Note
Remove the faceplate screw and pull the existing cylinder out of the door.	Each Kentix profile cylinder comes with a new forend screw.
Insert the Kentix profile cylinder into the door. Then insert the face plate screw and tighten it hand-tight, do not use a cordless screwdriver with a high torque.	The mechanical knob is already attached to the profile cylinder. Therefore, insert the profile cylinder into the guide from the inside of the door.
Insert the RFID radio knob into the cylinder until it clicks into place.	
The installation is completed. If not already done, the knob can now be programmed with the card set.	Programming of the master card set in the knob should already be done before installation on the door.

Installation steps

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Remove the faceplate screw and pull the existing cylinder out of the door.



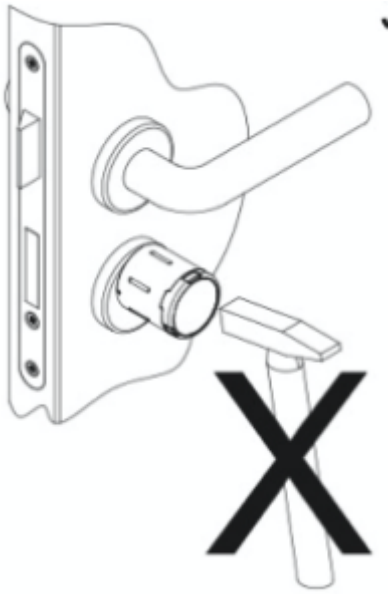
Insert the Kentix profile cylinder into the door. Then insert and tighten the forend screw.

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.



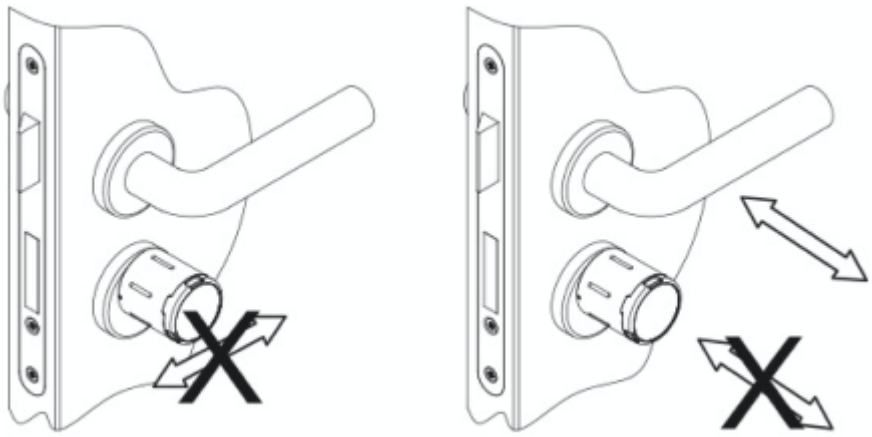
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If the radio door knob and cylinder were not supplied assembled, one or two drops of a resin-free oil (ORDER-CODE: KXC-PLS50M) must be added to the cylinder body during initial installation before mounting the knob module. It must not be sprayed directly into the cylinder body with the spray can. For the DoorLock-DC BASIC radio door knob, apply an additional 1 drop of resin-free oil directly to the mechanical slider.



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

Operation



During operation, it must be ensured that, apart from the intended operation, no lateral or other external forces act on the radio knob cylinder. Likewise, the door must not be pulled

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open on the radio door knob. Operating the door via the radio knob results in increased stress and premature wear and defects.

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.

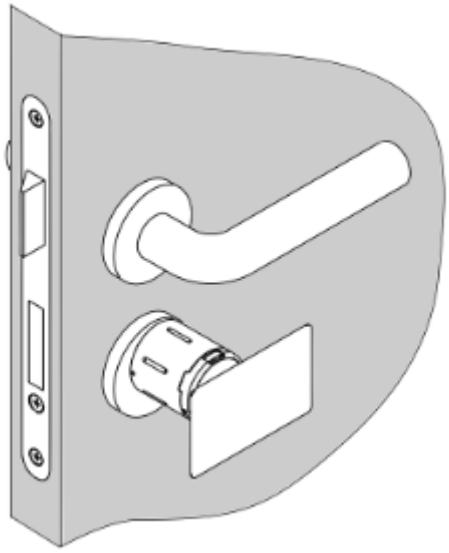
Phase	Signaling	Function	Urgency
Phase 1	5 short tones, simultaneously LEDs flash 5x red	Full function	A battery change will be necessary soon.
Phase 2	5 short tones, simultaneously LEDs flash 5x red	5 seconds delay of engagement, at the same time LEDs flash green	A battery change must be performed immediately.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

Table battery warning

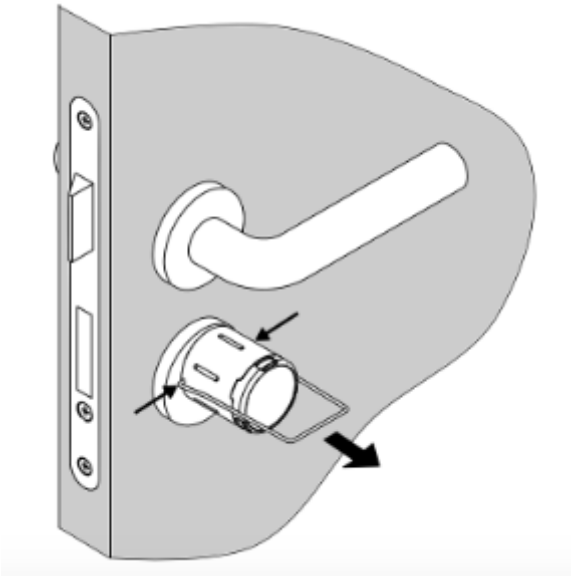
Battery change

Hold the battery replacement card in front of the knob module – the knob module moves to the battery replacement position. It may be necessary to wake up the knob module by turning it on before this step.

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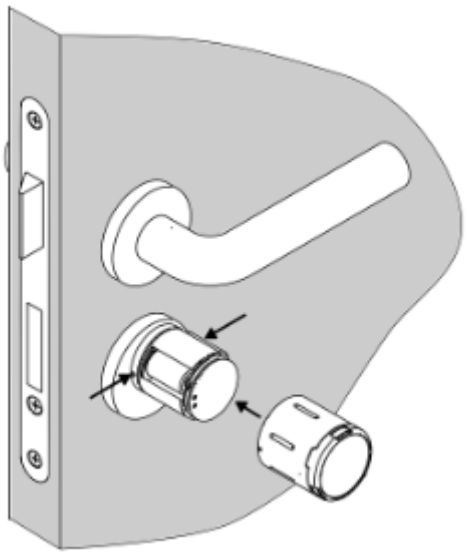
Simultaneously press in the now unlocked case locking pins of the knob module with the battery replacement tool and pull off the case.



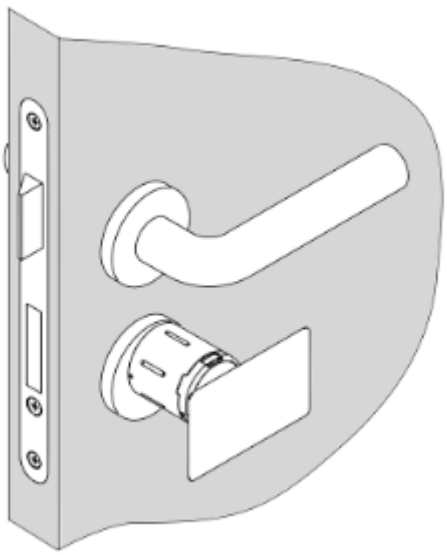
Remove used batteries and insert new batteries, paying attention to polarity.

Press in the locking pins and push the knob module sleeve back on. Make sure that the locking pins are properly engaged in the sleeve.

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After the battery change, the knob module is still in the battery change position. By presenting the battery replacement card or an authorized key again, the knob module moves back to the home position.



Battery change with low power adapter

If the battery of the DoorLock-DC Basic is completely discharged, the knob no longer shows any reactions (LEDs and signal tones). In the last phase of the drained battery condition, the knob always moves to the position where the pins can be pushed in to change the battery. If this is not the case, the low-power adapter (ORDER-CODE:KXC-BAT2) is required.

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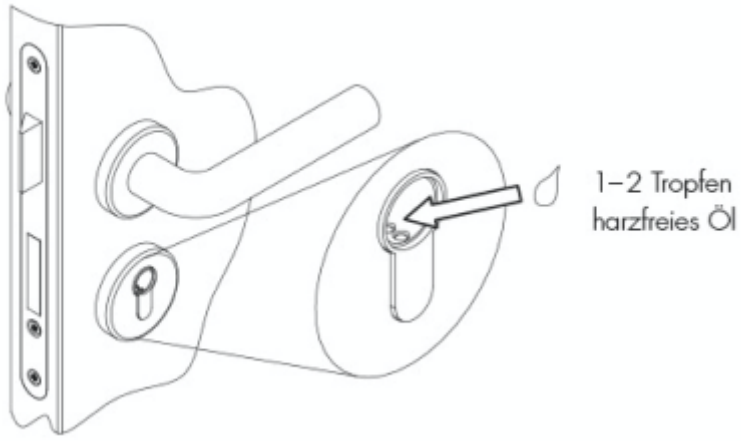
Application of the low power adapter

1. Remove the plastic cover with the suction cup
2. Hold the low-power adapter to the contacts of the knob and remain in this position
3. Hold battery replacement card between knob and low-power adapter
4. Remove the low-power adapter and press in the two opposite pins with battery change pliers
5. By pulling, the cover of the knob can be removed and the battery can be taken out
6. Insert new battery and bring the knob shell into the correct position
7. Fix pins with battery change card
8. Fasten plastic cover with logo

The following video shows the procedure for changing the battery with low-power adapter. You can find more information about the low-power adapter here: Low Power Adapter.

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.



Do **not** use contact or cleaning sprays such as WD40 for maintenance.

Battery Maintenance Software

The DoorLock's battery maintenance feature must be enabled in the KentixONE configuration interface, version 8.6.0 or later. After the initial setup of the DoorLock and after every battery replacement, this feature must be activated to ensure trouble-free operation. Afterward, at least one successful transaction must be completed to finalize the

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activation.

Signaling

Function	Signal (acoustic and visual) and explanations
First booking after commissioning	long tone and orange LED
Programming mode start	Long tone followed by a short tone
Programming mode	LEDs flash green
Programming mode end	short tone followed by a long tone
Key taught	2 short tones, LEDs light up green
Key authorized	LEDs light green
Key not authorized	long low tone, LEDs light up red
Emergency access	no sounds, only the green LED flashes
Battery warning phase 1	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
Battery warning phase 3	5 short beeps, simultaneously LEDs flash 5x red, no engagement, but battery change position
Coupling error	5 long tones, 2 short tones. Contact support at support@kentix.com

Table signaling

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