Door handle (radio) DoorLock-LE – MANUAL



ORDER-CODES:
KXC-LE

DATASHEET KXC-LE

Overview

The Kentix DoorLock-LE is a battery operated electronic door handle with radio. The lever handle is designed for installation in building doors and for opening locks. Depending on the product variant, the lever handle can be used indoors and outdoors. The electronics are fully integrated in the handle. RFID transponder carriers with MIFARE®DESFire® can be used as keys.

The electronic door handle is networked by radio with an AccessManager radio. Up to 16

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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-LE 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 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.

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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

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.

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Commissioning

We recommend commissioning before assembly.

Prepare device

1. Slide the enclosed battery (type CR123) into the handle or insert it into the battery holder and place the cover on the pusher.
2. Screw the pusher with the supplied Allen key.

To loosen the cover: Turn the screw inwards until the cover can be removed.
To fix the cover: Unscrew the screw with the cover in a suitable position.

Set up service key

1. Hold the service key **(yellow)** in front of the pusher for approx. 1 second to activate.
2. Hold the service key again just in front of the pusher. 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.

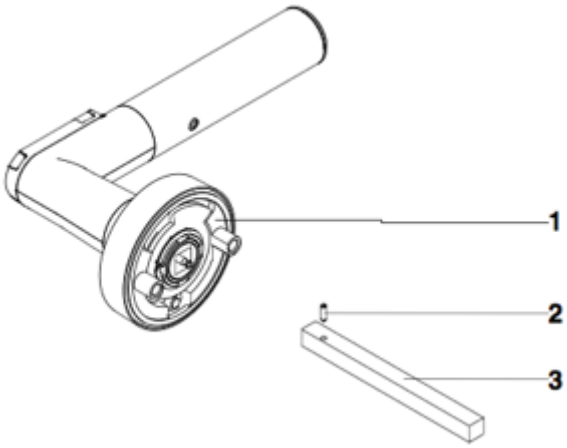
Installation

Mounting the square pin

Push the square (3) completely onto the retaining pin of the door handle (1) and into the square receptacle.

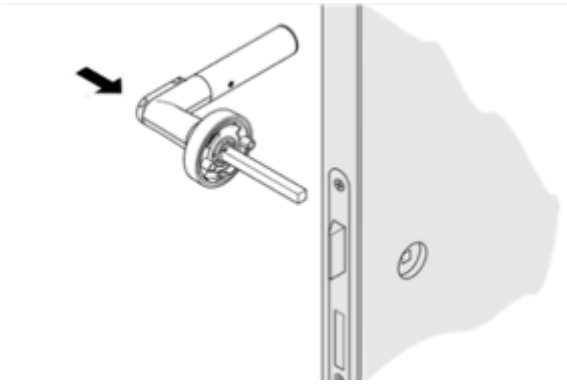
Insert the coiled spring pin (2) into the square and press it into the square with pliers until the pin is flush with the square. The square is now firmly connected to the door handle.

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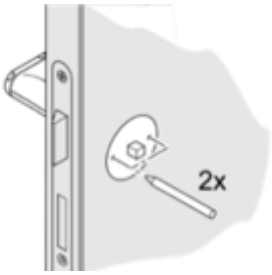
Put on square

Insert the square spindle of the electronic door handle into the square spindle of the lock.



Mark drill holes

Place the enclosed drilling template on the square, align it horizontally and punch the hole markings.



Drilling

Pull out the square pin again and drill holes with a diameter of 8 – 8.5 mm at the marked points.

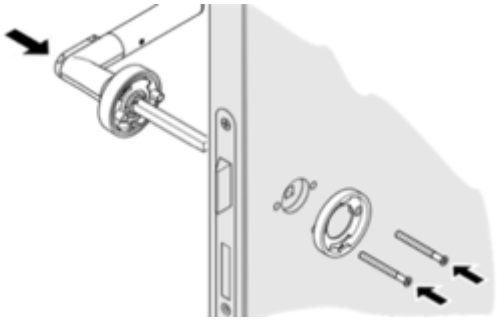
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Do not drill into or through the lock case!



Assemble electric handle

Re-insert the square spindle of the electronic door handle into the square spindle of the lock. Attach the lever handle holder of the mechanical door lever handle from the other side and screw it to the electronic door lever handle through the door leaf using the fastening screws.

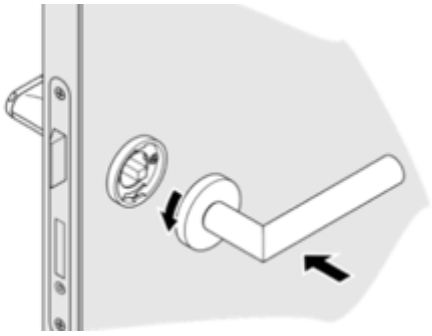


The enclosed screws are designed for doors with greater door thickness. Before screwing, be sure to check whether the screws need to be shortened so as not to damage the rosettes!

Assemble mechanical pusher

Place the mechanical door handle in the horizontal position. With the door handle pointing to the right, tighten the rosette to the left, guide it over the handle mount and engage the bayonet catch.

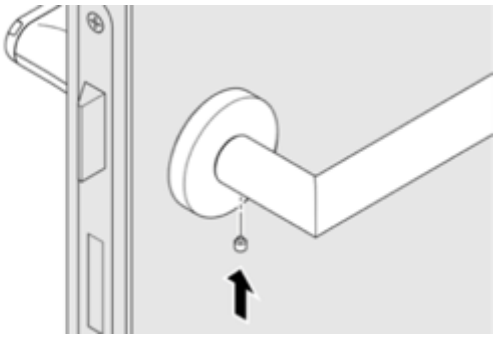
Accordingly, for door handles pointing to the left, tighten the rosette to the right.



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Fix mechanical pusher

Screw in the locking screw on the underside of the rosette and tighten it firmly.



Check functionality

With the door open, check the functionality and ease of movement of the handle. To do this, hold an authorized key in front of the reader.

In the engaged state, the latch of the lock must be completely immersed in the lock case when the latch is pressed down.

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.

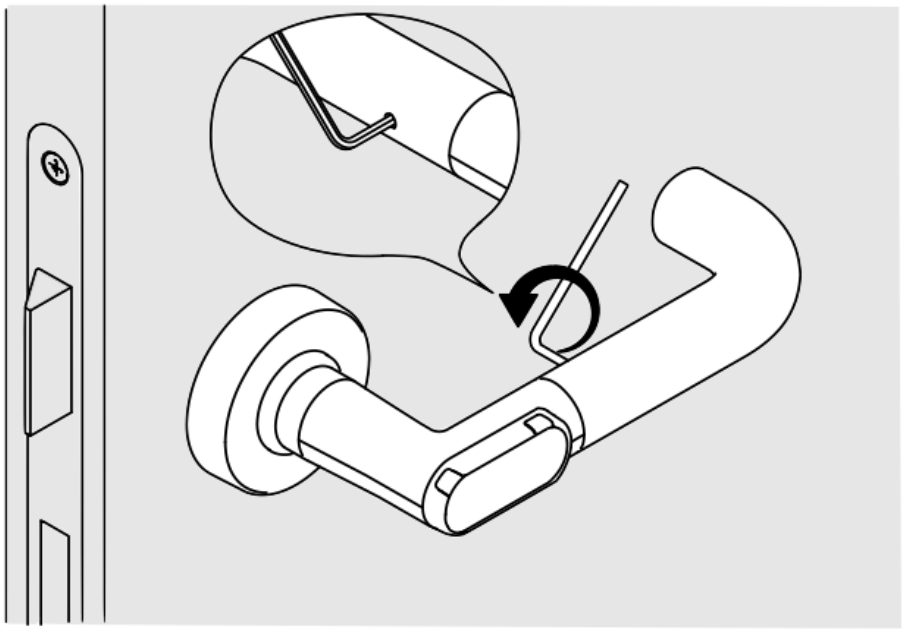
Phase	Signaling	Function	Urgency
Phase 1	5 short tones, simultaneously LEDs flash 5x red	Full function	A battery change will be necessary soon.
Phase 2	5 short tones, simultaneously LEDs flash 5x red	5 seconds delay of engagement, at the same time LEDs flash green	A battery change must be performed immediately.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

Table battery warning

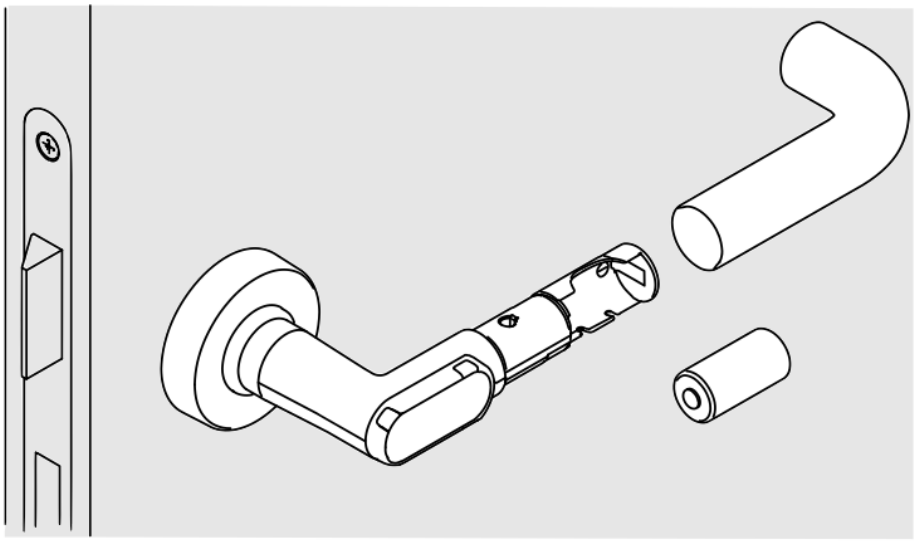
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Battery change

Use the supplied Allen key to countersink the screw on the inside of the door handle.



Pull off the handle sleeve.



Remove the used battery and insert a new one, paying attention to the polarity. The negative pole of the battery points in the direction of the handle sleeve. When inserting the battery, the DoorLock must be in the horizontal home position.

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Push the handle sleeve back on.

In order to guarantee the IP66 protection class of the DoorLock-LE for outdoor use, the seals, consisting of a large sealing ring and a grub screw with sealing ring, must always be replaced each time the handle is opened.

Maintenance

Maintenance and care of the door handles 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

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 activation.

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 higher tone	Long tone followed by a short higher tone
Programming mode	LEDs flash green	LEDs flash blue
Programming mode end	short tone followed by a long lower tone	short tone followed by a long lower 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

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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 long tones, 2 short tones. Contact support at support@kentix.com	5 long tones, 2 short tones. Contact support at support@kentix.com

Table signaling

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