

Rack lock (bus) DoorLock-RA4 - MANUAL



ORDER-CODES:

[KXC-RA4-IP1-R](#), [KXC-RA4-IP1-L](#), [KXC-RA4-IP2-R](#), [KXC-RA4-IP2-L](#)

[DATASHEET KXC-RA4](#)

Overview

The DoorLock-RA4 is a wired locking solution for IT racks and distribution cabinets. The DoorLock offers the possibility of two-factor authentication via a touch PIN keypad and an RFID reader. In addition, the position of the lever on the DoorLock is sensed via an integrated magnetic contact.

The DoorLock requires a suitable remote station for operation. This remote station is formed by the network-capable devices AccessManager (SmartRelay) or SmartPDU, which act as both bus gateway and power supply.

For central management, an AccessManager, SiteManager or AlarmManager is required in the MAIN-DEVICE operating mode. Teach-in and configuration are performed entirely via the KentixONE web interface. The maximum cable length between gateway and DoorLock is limited to 100m. Up to 16 DoorLocks can be taught-in to one AccessManager (SmartRelay). With a SmartPDU as gateway, the number is limited to 2 DoorLocks.

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.

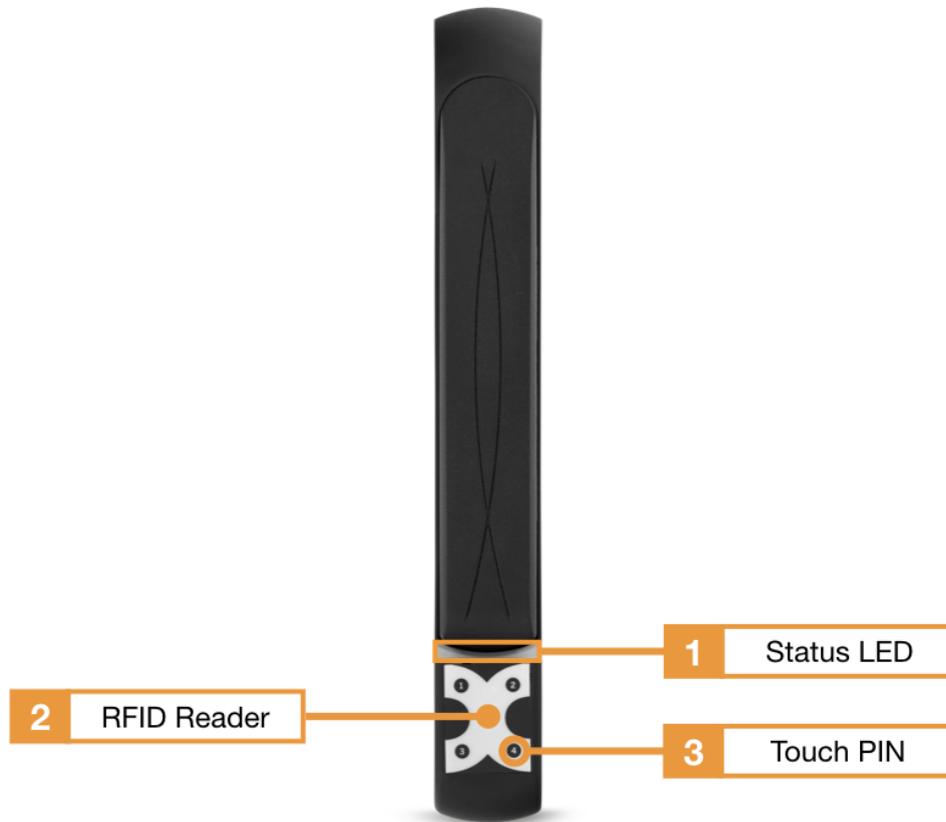
Maintenance

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.

Connection and operating elements



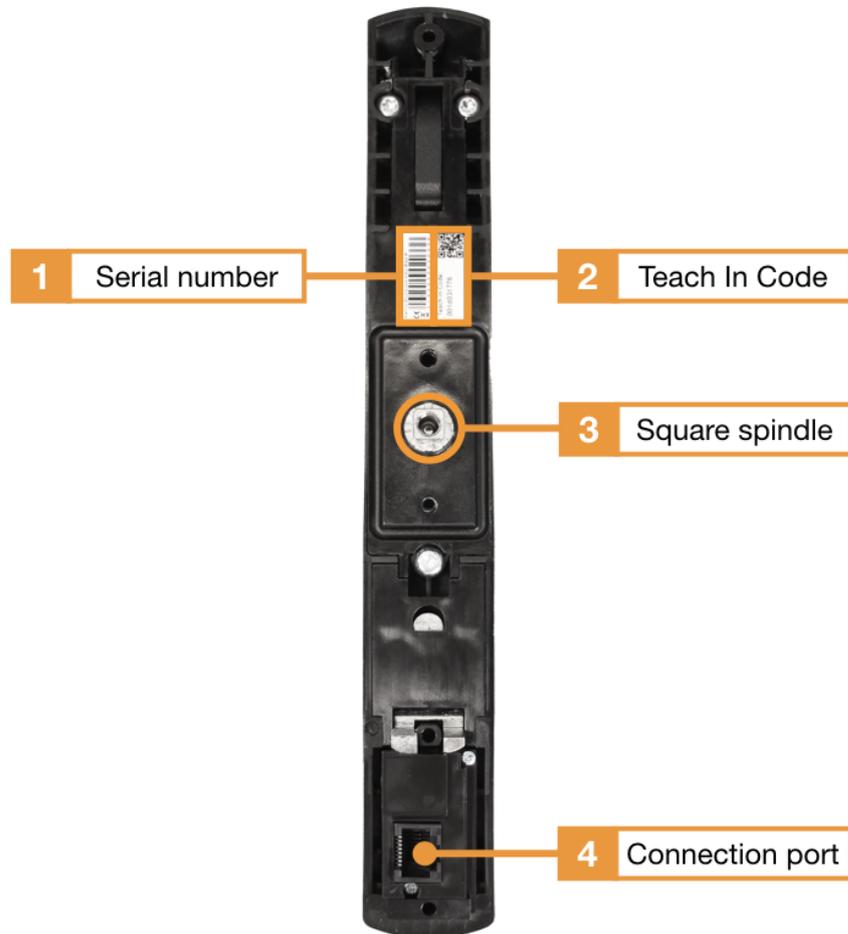
1. Status LED (RED, GREEN)
2. RFID reader unit (Mifare®, Mifare®DESFire®)
3. Touch PIN Keyboard

The keypad can be deactivated in the configuration screen of the rack lock (from KentixONE version 8.4.3). This can be useful if access to certain rack locks should only be possible via RFID token.



1. Teach In Code

The Teach In Code is required to teach in the DoorLock. The 10-digit code is located both on the side and on the back of the DoorLock.



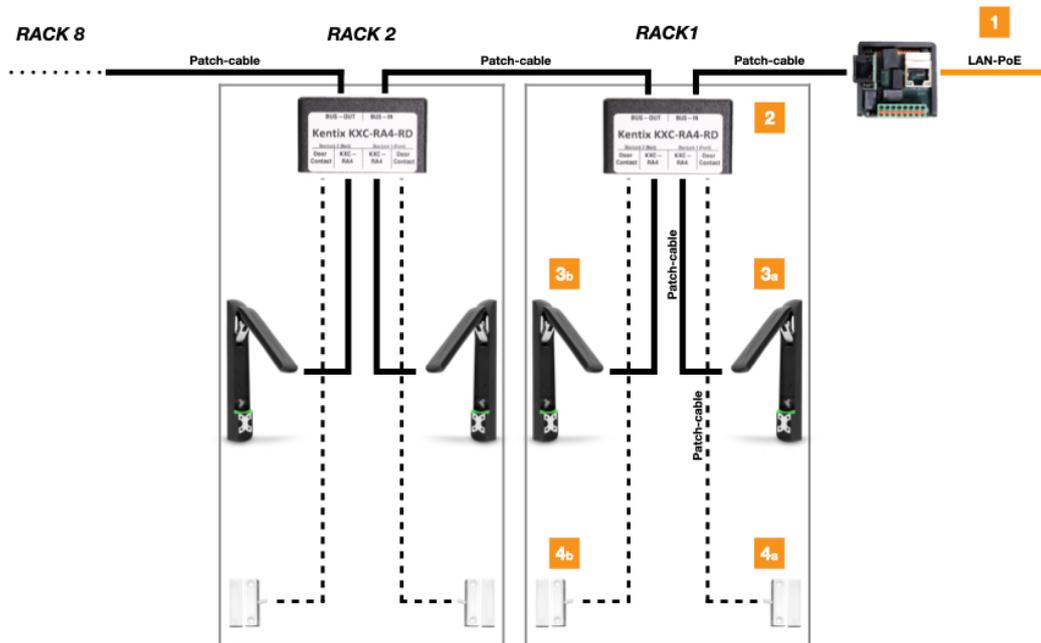
1. Serial number
2. Teach In Code
3. Square mandrel 8 mm
4. Connection socket

System topology

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

Connection variant 1: To AccessManager SmartRelay

The DoorLock-RA4 is connected to an AccessManager SmartRelay. By using the Kentix distributor box KXC-RA4-DB-BUS, up to 16 DoorLocks can be taught in at one AccessManager. Two DoorLocks and two door contacts can be connected to one distribution box.



DoorLock-RA4 to AccessManager SmartRelay

1. Ethernet port with PoE power supply, Class 3 (12.95W)
2. Distributor box KXC-RA4-DB-BUS
3. DoorLock KXC-RA4
4. Door contact KDC1-W

The KXP-2-RS-ADP adapter is required to connect a rack lever or distribution box to terminal block 2 of the access manager. This is included in every DoorLock-RA4 basic package.

Connection variant 2: To Kentix SmartPDU

The Kentix DoorLock-RA4 is connected to the system port of the SmartPDU. With one distributor box, a maximum of 2 DoorLocks and two door contacts can be connected per SmartPDU.

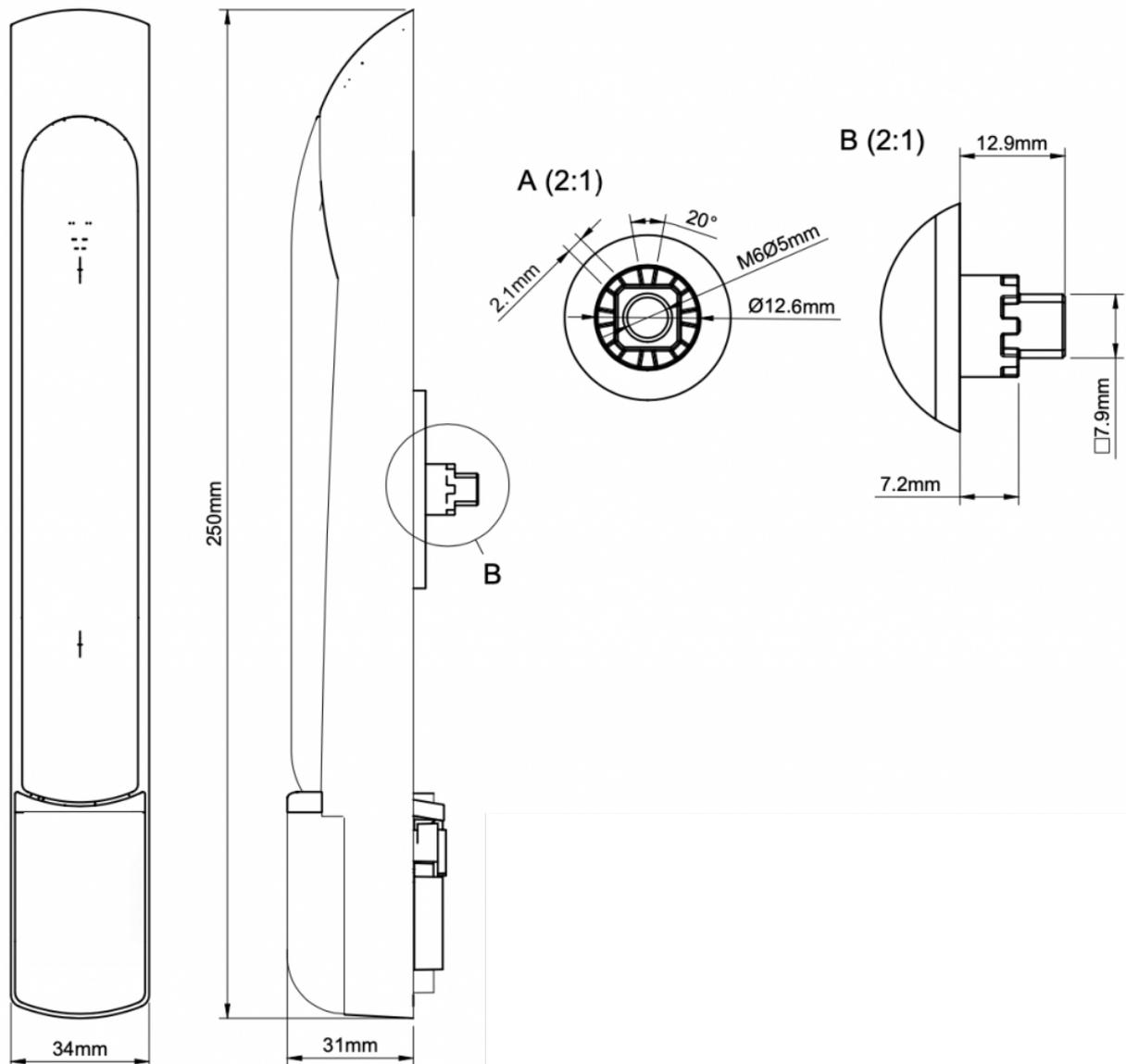
User and access management

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

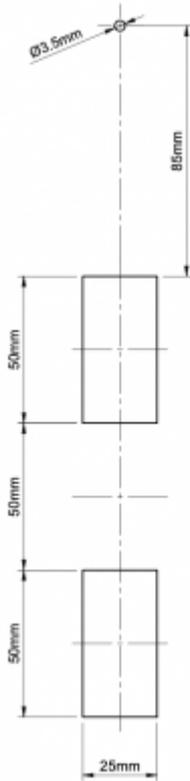


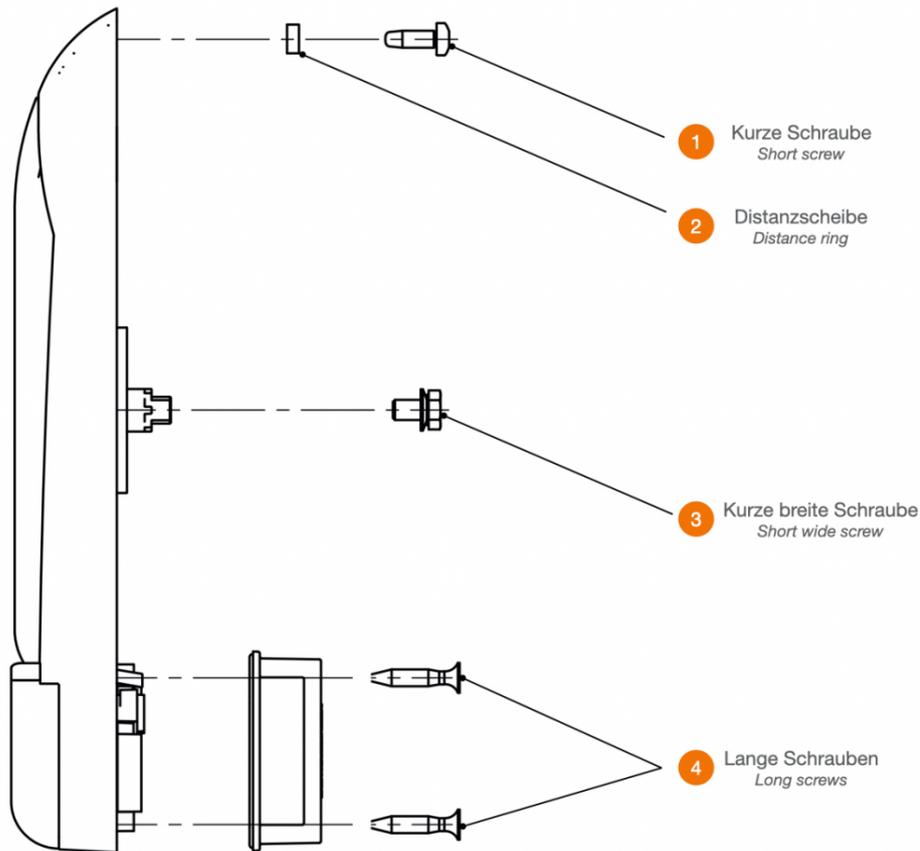
Installation

First connect the DoorLock with the Slimline patch cable before attaching it to the rack. Only install the DoorLock when it is open!

Hole pattern for mounting

The following hole pattern is required for mounting the DoorLock-RA4. The bar lock of the cabinet door must have a receptacle for an 8 mm square mandrel.





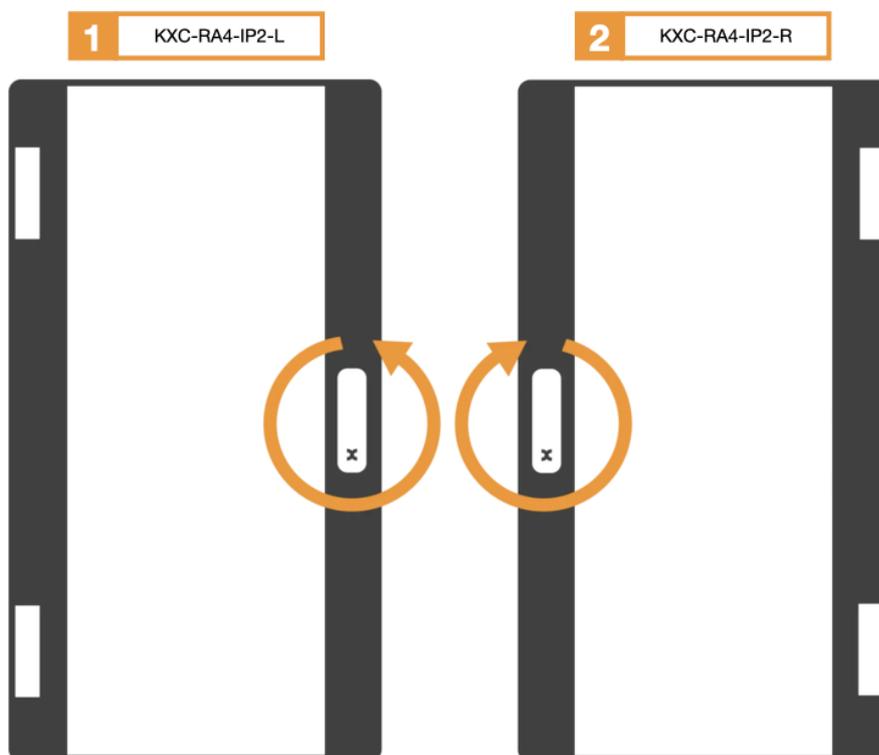
1. Cross-head screw for fixing the top of the DoorLock to the cabinet door (tightening torque 1.5 Nm)
2. Spacer washer for thin cabinet doors
3. Locking screw with hexagon head for fastening the rod lock to the DoorLock (tightening torque 1.5 Nm)
4. Cross-head screws for fixing the bottom of the DoorLock to the cabinet door (tightening torque 1.5 Nm)

Ordering information

The DoorLock-RA4 is available in two directions of rotation of the square spindle (right/left). As the lifting handle always performs the same movement, the gear or the shaft rotation must be set according to the L/R door side.

Please note the required direction of rotation of the axle when ordering.

The direction of rotation can always be seen from the rear of the door or lever.



1. DoorLock-RA4-IP2-L
2. DoorLock-RA4-IP2-R

Adapters are required for mounting the DoorLocks on cabinet doors with a different hole pattern.

Signaling

Function	Signal and explanation
DoorLock not closed	LED lights up permanently red
Reed contact not closed	LED lights up permanently red
DoorLock and reed contact closed	LED lights up permanently green
Pin input	short tone, LED flashes green
Access granted	short tone, LED flashes green

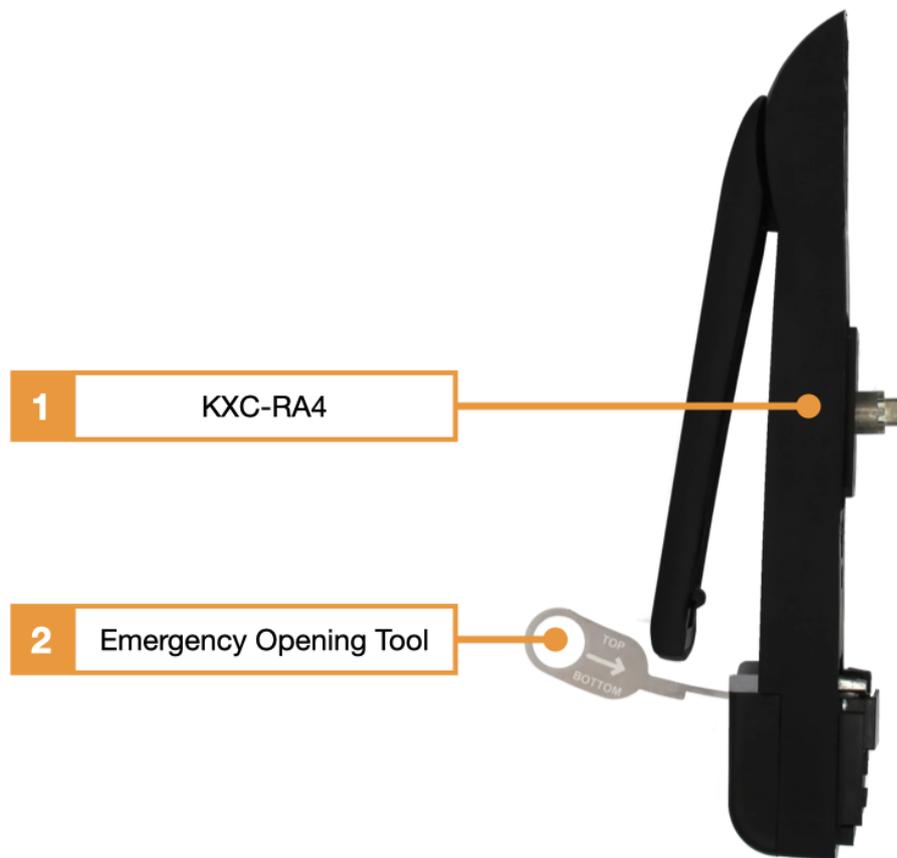
Access denied	3 long tones, simultaneously LED flashes 3x red
Emergency access	No signaling

Table signaling

Emergency opening

The **DoorLock-RA4-EMS** is an emergency opening set for mechanical emergency opening of the DoorLock-RA4. In the event of an interruption in the power supply or a defect, the DoorLock can be opened mechanically using the tool included in the set. The set includes the emergency opening tool and 2 front foils.

Designation of the elements



1. KXC-RA4
2. Emergency opening tool

Steps for emergency opening

1. Remove the front foil of the DoorLock-RA4
2. Insert the emergency opening tool into the recess
3. Rack lock pops open
4. Pull out the emergency opening tool
5. Stick on new front foil

When inserting the emergency opening tool into the rack lock, ensure that it is correctly aligned.

From series 16, the front foil no longer needs to be removed before the emergency opening tool can be inserted.