

EAV4+

Automatic locking system
with keyless motorised opening function



**UPGRADE & UNLOCK YOUR
DOOR WITH YOUR SMARTPHONE**

EAV4+

Automatic locking system with motorised opening function

Upgrade your door security with the Winkhaus EAV4+ from Coastal Group – an advanced motorised locking solution that enables secure, contact-free entry. Unlock your door effortlessly using your smartphone via the Winkhaus doorControl App.

The EAV4+ is a 24V DC motor with integrated Bluetooth® and Wi-Fi (LAN), designed to transform the autoLock AV4 into a fully smart locking system.



How does it work

The EAV4+ motor engages at the touch of a button, retracting the hooks and unlocking the door when triggered via your smartphone. You can still use a key or open from the inside with the door handle.

No additional installation or external control modules are required, reducing technical complexity and cost.



<https://youtu.be/MaJwetGBElw>

Compatibility

The EAV4+ is the ideal retrofit solution to upgrade existing Winkhaus AV4 locks into smart systems. The motor housing can be mounted retrospectively and is compatible with timber, aluminium, PVC, and composite doors fitted with an AV4 lock.

Technical Specification

- ✓ Automatic locking triggered by a magnetic trigger on the frame
- ✓ Unlocking via the Winkhaus doorControl smartphone app
- ✓ Wireless communication via Bluetooth® or Wi-Fi (LAN)
- ✓ Secure deadbolt locking using a standard profile cylinder lock
- ✓ Optimised motor housing for reliable performance
- ✓ Simple, plug-and-play installation
- ✓ No need for "free-to-turn" cylinders with broader cylinder compatibility
- ✓ Lock and door status visible in the app



doorControl App

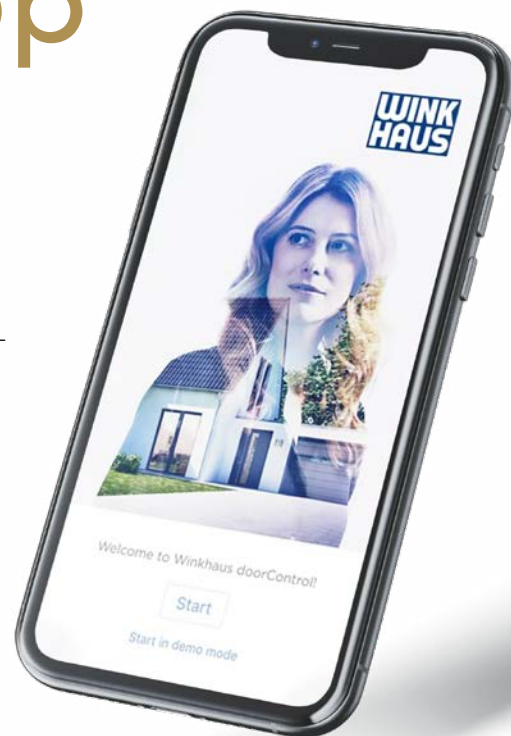
Allows you to unlock the door at your convenience

Your smartphone is your key.

With the doorControl App, your phone becomes a secure, intelligent key. Control who has access and when, and view a full record of access history – all from your mobile device.

Convenient Access via doorControl App

- ✓ Unlock doors via smartphone or tablet
- ✓ Real-time status monitoring
- ✓ Set time-based access profiles
- ✓ Manage access permissions easily
- ✓ Control up to 25 doors and 100 users
- ✓ Compatible with both iOS and Android devices



doorControl App Highlights



Quick Setup

Easy lock pairing and configuration



Auto Connect

Automatically connects after first login



Flexible Access Management

Grant, edit, or revoke user access locally via Bluetooth or Wi-Fi



Temporary Access

Assign timed entry for guests, deliveries, or maintenance teams



Status Monitoring

Always know if your door is locked or unlocked



Event Logging

View a log of the last 1,000 door events for full traceability

FAQ

What if my smartphone is lost? Can I still open the door?

Yes – the system can always be operated using the key or from the inside using the door handle, ensuring you're never locked out.

What happens in the event of a power failure?

The lock can still be opened with the key until power is restored.

What if my smartphone is stolen?

No problem. Simply log in to the doorControl App from another device and block access for the lost phone. Access permissions can be updated or revoked instantly. All communication between your smartphone and the EAV4+ is encrypted for maximum security.

Can family members have access too?

Absolutely. The doorControl App supports up to 100 users and 25 doors. You can assign individual or group access permissions and even create custom time profiles for each user.

Can I unlock the door remotely if I'm away?

Remote unlocking is not supported to ensure security. However, you can pre-set access permissions with specific time profiles, allowing authorised users entry during defined periods. For more details, refer to the time profile setup guide in the manual.

Is there a way to increase security when I'm on holiday?

Yes. The system includes a holiday lockout mode, which enables handle blocking and additional deadbolt locking via the profile cylinder. Once activated, motorised unlocking is disabled until the lockout is manually reset.



Fitting Guides



HARDWARE COMPONENT LIST

Below is a list of components you will receive with EAV4+ Kit. These component include all the entry system and electrical components you need to work with your door lock.

PLEASE NOTE: This kit does not include the lock or keeps; these can be purchased separately from Coastal Group

MOTOR

ML-E-EAV4-MOTOR
(5096287)



POWER SUPPLY UNIT (PSU)

ML-E-EAV4-PSU-24
(2126934)



CABLE TRANSITION UNITS

ML-E-EAV4-TSP
5040505



CABLE TRANSITION FIXING PLATE

ML-E-EAV4-CTC
(4990671)



ML-E-EAV4-TFP
5040503

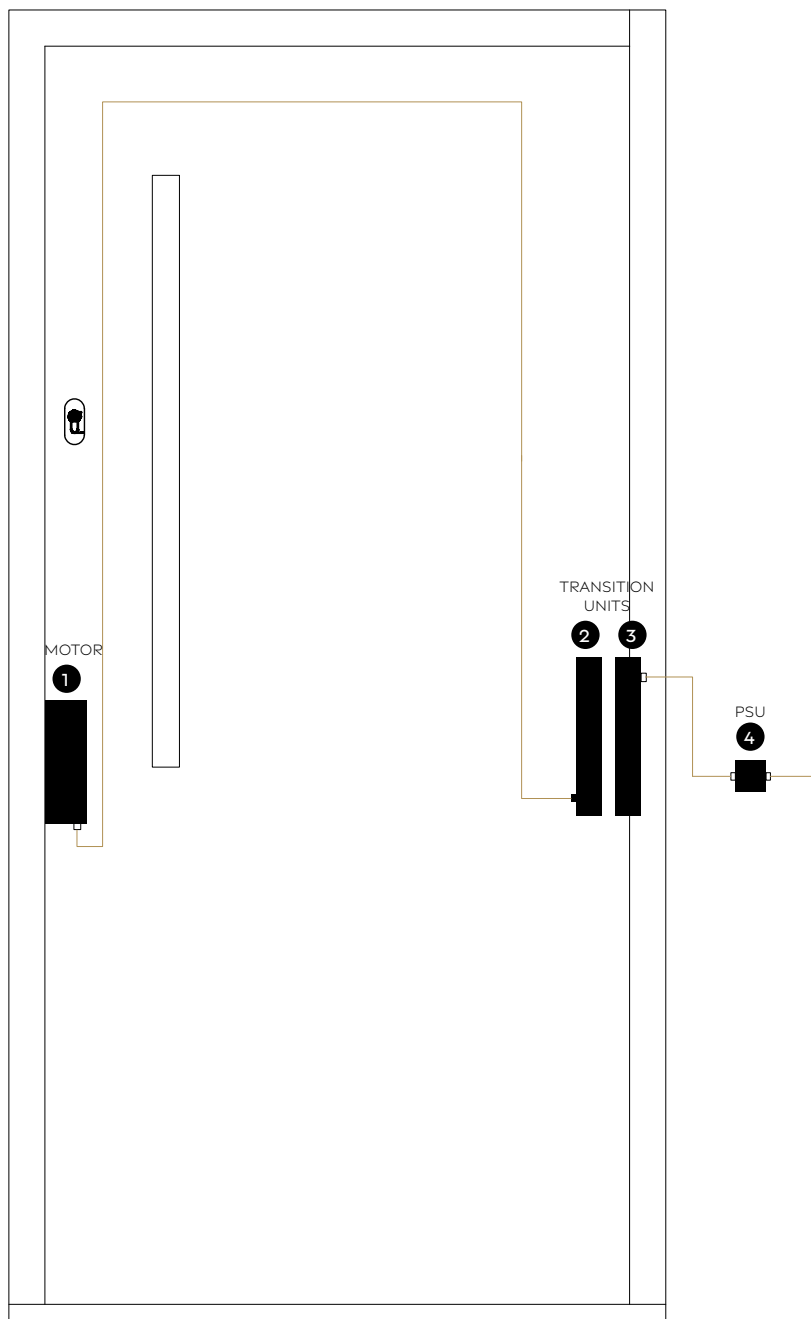


TRIGGER

ML-E-EAV4-TRIGGER
(5092487)



WIRING DIAGRAM

**DANGER**

Risk of electrocution: All devices are to be operated with Safety Extra Low Voltage (SELV). Only use power supplies rated protection class 2 with safety approval according to EN 62368-1.

Failure to do so will create a risk of fatal electrocution.

Only certified electricians are authorised to carry out electrical installation work on mains systems.

**ATTENTION**

Property damage in the event of incorrect mounting and wiring:

The system devices are operated using electricity.

They could be destroyed if they are mounted and wired incorrectly.

Mount and wire the system devices correctly before connecting the power.

**NOTICE**

This wiring diagram is not subject to updating. We reserve the right to make technical modifications and change the product's appearance; any liability for errors and misprints is excluded.

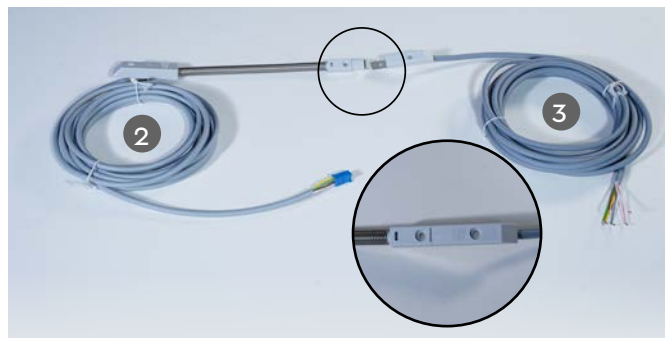
ASSEMBLY AND CONNECTION OVERVIEW



STEP 1 Installing the Motor to AV4 Lock

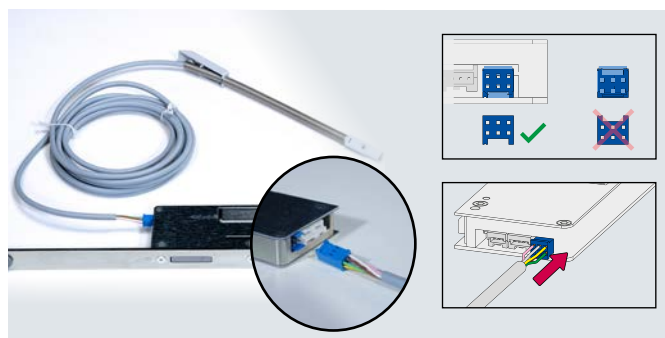
Attach the Motor (ML-E-EAV4-MOTOR) (1) to your AV4 lock using the three screws provided.

NOTE: All screws are left hand thread



STEP 4 Connecting the Cable Transition Units Together

Connect the Sash Cable transition unit (2) to the Frame Cable transition (3)



STEP 2 Plugging in the Sash Transition Unit to Motor

Plug the blue end of Sash Cable Transition Unit (2) into the Motor (4)

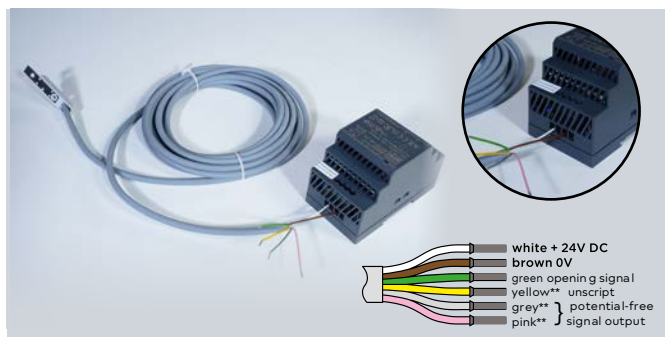
Please note the correct orientation of the 6 pin blue plug. See page 10 for details.



STEP 5 Wiring the PSU to Main Power Supply

Hook up the Power Supply Unit (4) to the main power (230V AC)

Please note correct orientation of these wires, see wiring diagram on page 11.



STEP 3 Connecting in the Frame Transition Unit to PSU

Take the Power Supply Unit (4) and connect to the Frame Cable Transition Unit (3) as shown in the wiring diagram.

Insulate the wires not used, see page 11 for details.



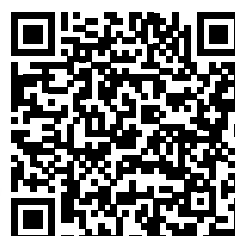
STEP 6 Blue lights will show on the Power Supply Unit (4) once it is connected to mains power and you will hear a click sound on the motor.



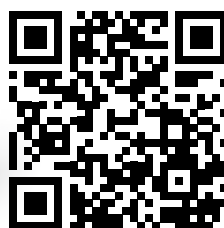
Download
Coastal Group
EAV4+ User &
Quick Set Up Guide



Find out more
about EAV4+



Winkhaus
Resources



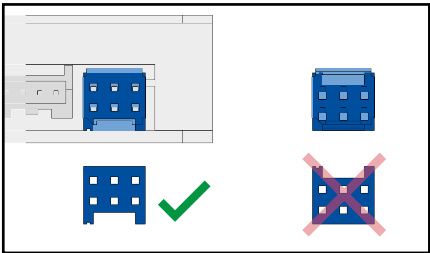
Winkhaus
doorControl App

Drawings for Milling available from COASTAL GROUP

ASSEMBLY OF BLUE MOTOR HOUSING PLUG

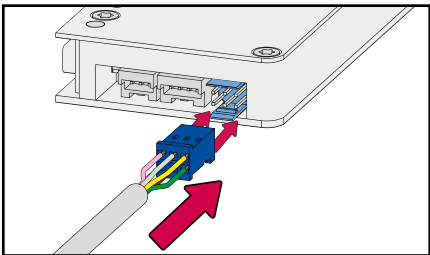
STEP 1

Install the 6-pin, blue motor housing plug in the correct position (not turned 180°) with feet at the bottom



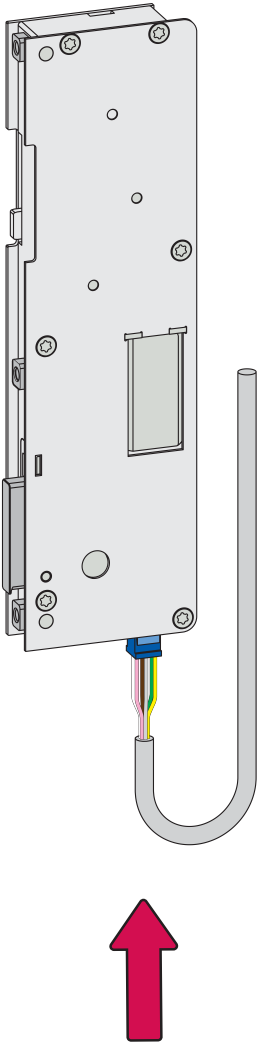
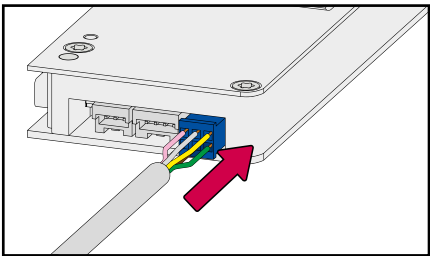
STEP 2

Assembly of 6-pin, blue motor housing plug, 2 x guide lugs in correct position of the socket



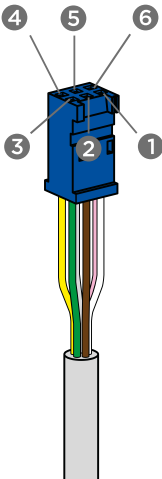
STEP 3

Insert 6-pin, blue motor housing plug completely and smoothly

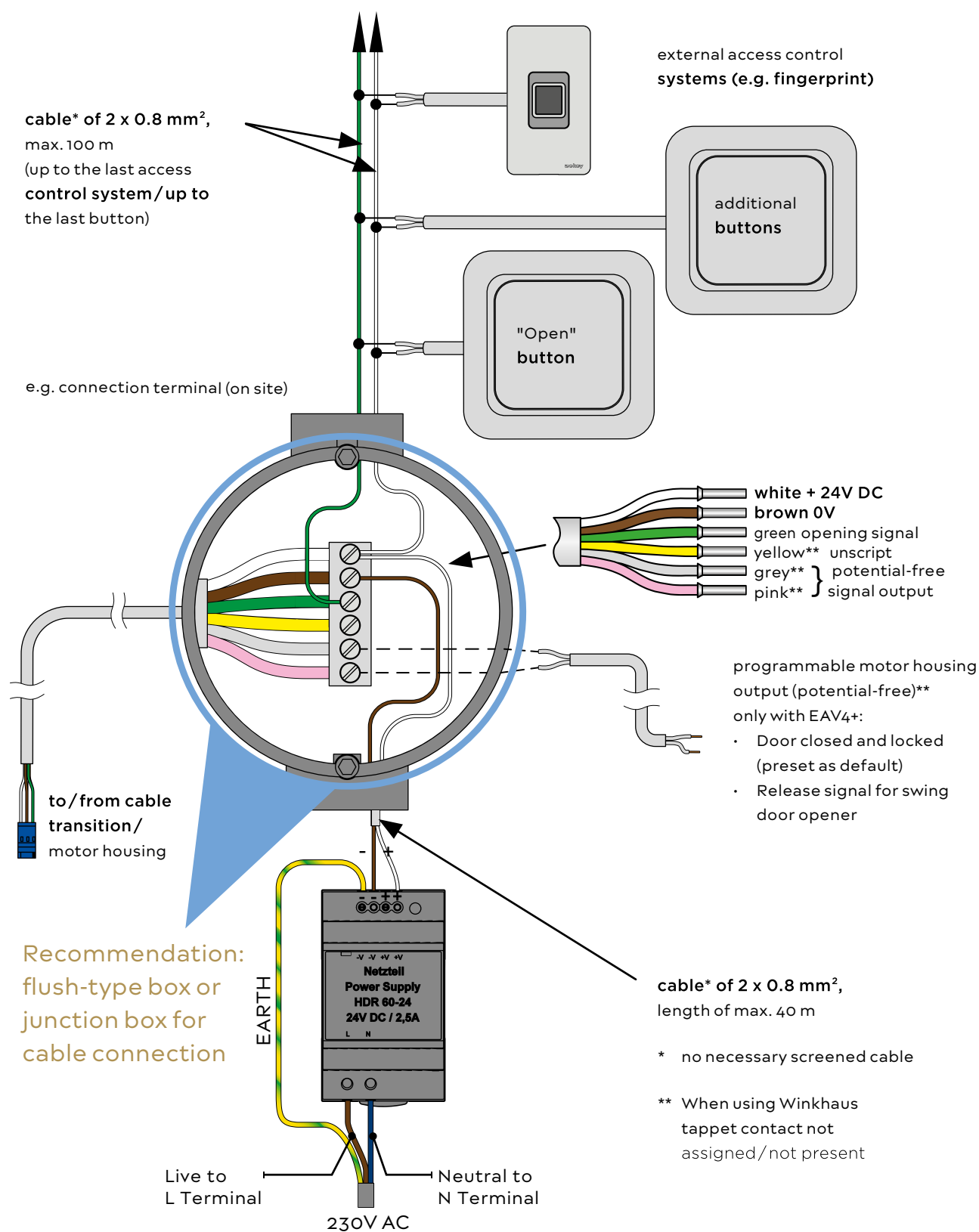


Cable assignment blue motor housing plug

Wire		Cable assignment when used with EAV4+
1	white	+ 24V DC
2	brown	0V ground
3	green	Opening signal (unlocking)
4	yellow	unscript
5	grey	potential-free signal output, various signals can be set, Standard: door closed + locked
6	pink	potential-free signal output, various signals can be set, Standard: door closed + locked

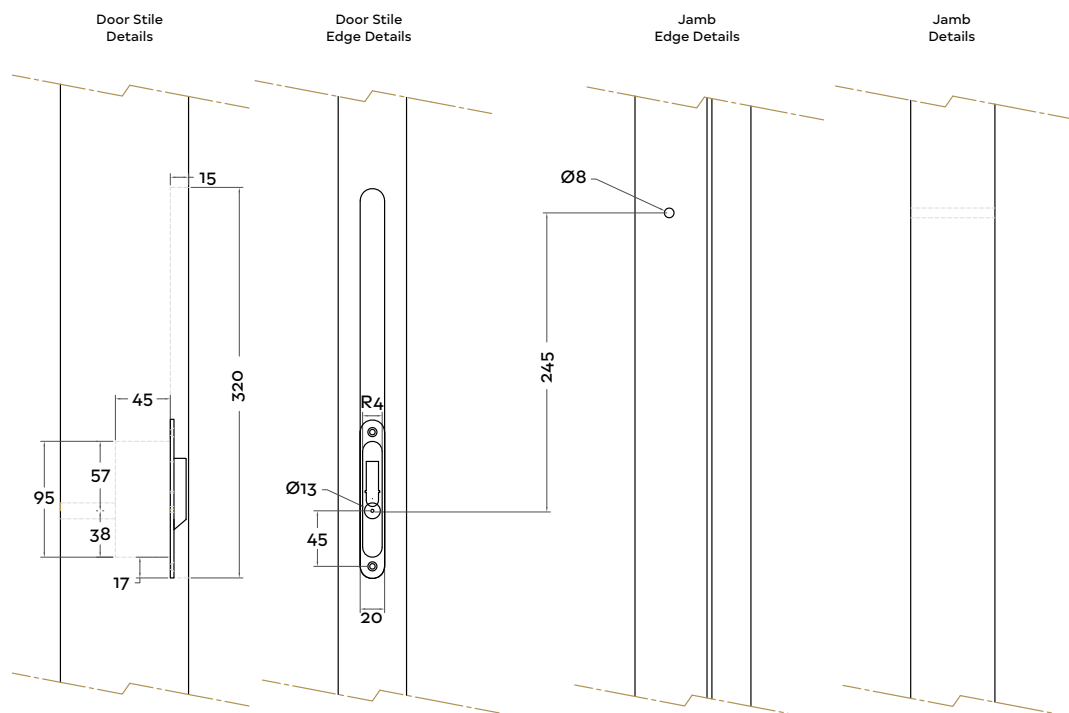


GENERAL CONNECTION DIAGRAM



General connection diagram
(with DIN rail power supply and cable transition)

CABLE TRANSITION MILLING DETAIL



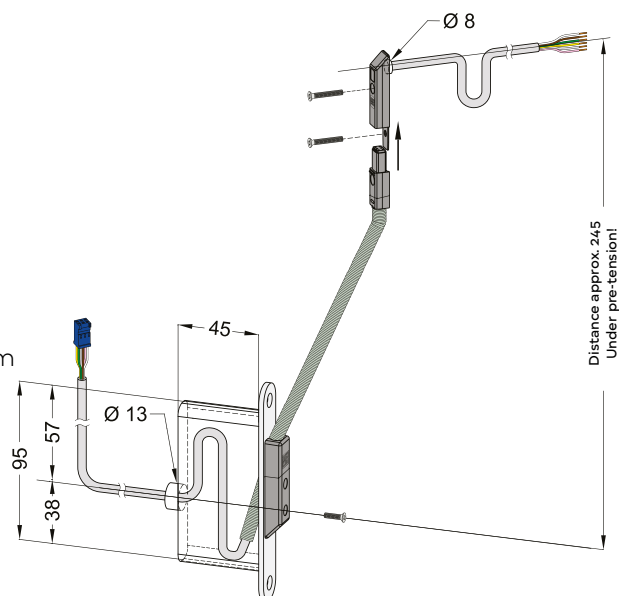
Routing Dimension For Cable Transition Unit

Cable Transition Frame Part

- » Drill a hole with a Ø 8mm for cable through the door frame
- » Pass the cable through the door frame (including cable reserves in frame!)
- » Fasten the frame part 1 with the fitting screw Ø 3 x 20 mm

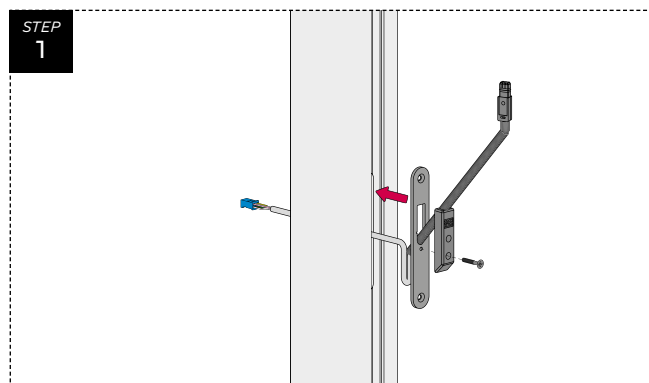
Sash part

- » Drill a hole with Ø 13mm through the groove (approx. 245 mm vertical under the frame part drill hole of Ø 8mm)
- » Mill 95mm x 45mm deep
- » Pass the cable through the door sash
- » The spring must remain slightly pre-tensioned (approx. 10mm) even when the door is closed

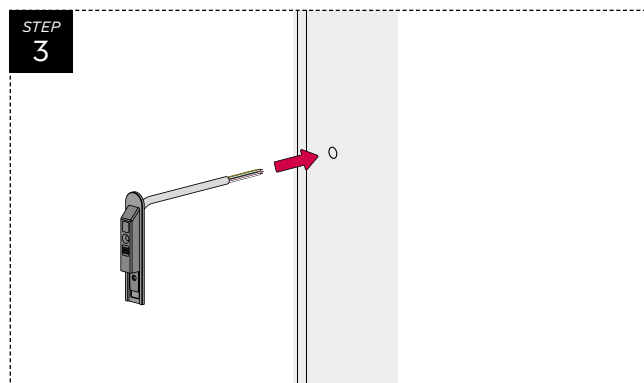


Caution! The drillings must be burr-free.

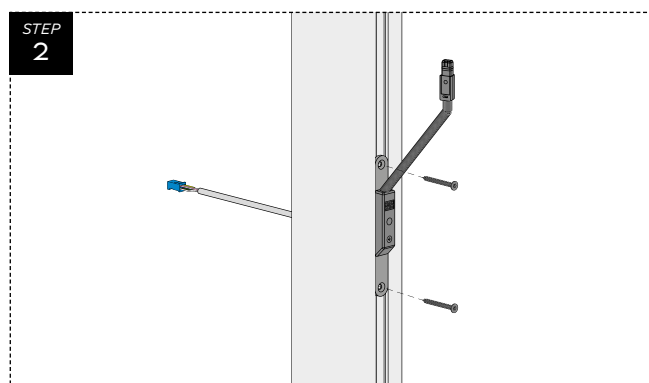
MOUNTING THE CABLE TRANSITION



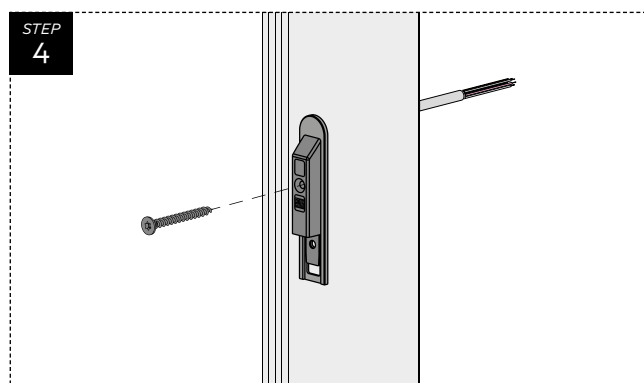
Insert the sash part with the cover plate into the milled groove – be sure to allow for a cable reserve behind the part.



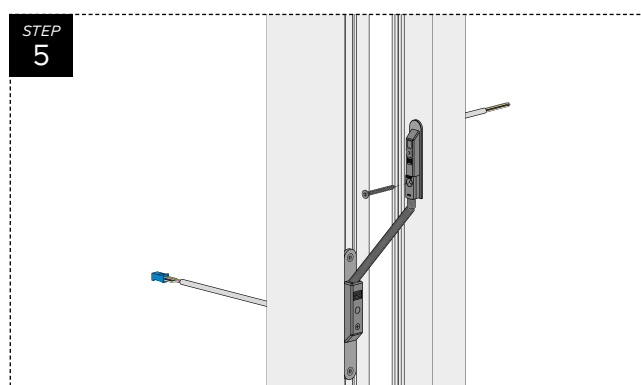
Feed the cable through the $\varnothing 8$ mm hole in the door frame (with cable reserve included).



Fix the sash part in place with the appropriate fixing screws.



Fasten the frame part with $\varnothing 3 \times 20$ mm screw.



Secure the sash part into the frame part with $\varnothing 3 \times 20$ mm screw.



Important! Always leave a cable reserve of 3–5 cm behind the sash part to maintain proper spring tension in the cable transition system

USER & QUICK SET UP GUIDE



Search for 'Winkhaus doorControl App'

Download the doorControl App,
available on Apple Store and Google Play



Notice: Initial initialisation is only possible via Bluetooth® (not WLAN). Bluetooth® must be activated on the smartphone! When initialising, check whether a current update is available and if so, install it.

Recommendation: enable automatic app updates.



Attention! Make sure to initialise the app! Unused QR code contains access data and can be misused!



Notice: Always store the QR code securely – protected against use / copying by unknown persons.

USER & QUICK SET UP GUIDE

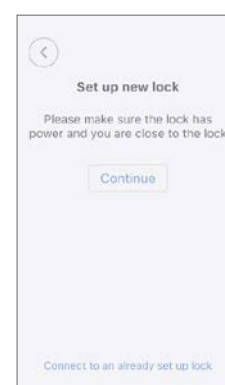
1. App home screen with selection options

- Click Start
- Accept Privacy Policy when prompted
- Click OK on prompt to 'find and connect to devices on your local network'
- Click OK on prompt 'would like to use Bluetooth'



2. Set up a new lock

- Click 'Continue'



3. Scan QR code

- You need to scan the QR code that comes with your kit. If prompted, grant access to your camera
- Wait while the app searches and connect to your lock



Notice: The QR code is supplied as a sticker with Winkhaus operating instructions and is also stuck on the motor housing



4. Name your lock

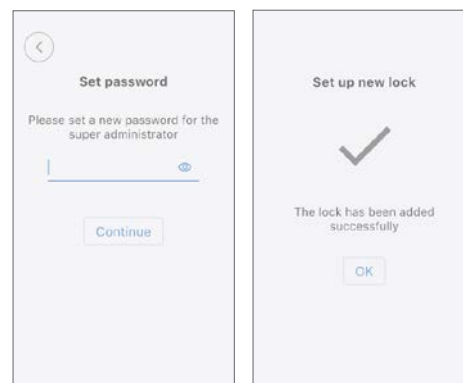
- Once the app has located your new lock, you will be prompted to enter a name for the lock
- Now you can enter a name for the lock (eg Front door)
- Click continue



USER & QUICK SET UP GUIDE

5. Set password

- Now set your Super Admin password
- Password must be at least 8 characters
 - must include one uppercase letter, one number and one special character
- Click 'Continue'
- Wait for the phone to register your new account.
- Once registered, you will see the main screen for your lock
- Success! Your lock has successfully been set up and is ready to use with the app.



Note:

- The super administrator is the person who manages the lock.
- Super administrators and administrators can use all the functions of the lock.
 - Create, delete and block new administrators and users as well as groups
 - Access parameters, events, WLAN, firmware and factory settings
- General users: Lock and unlock in the specified time frame, view access times and change personal passwords

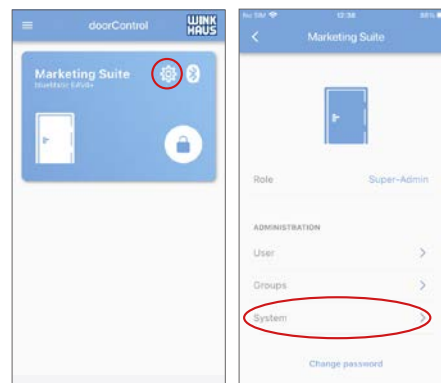
i Notice: Administrators (admins) can delete each other and change permissions. Only the first super administrator cannot be deleted.

6. Completion of "Set up new lock"

- It is recommended that you set up connection to the entrance door via WLAN (e.g. Wi-fi)

How to set up connection via WLAN (e.g. Wi-fi)

- Establish connection to entrance door via
 - Bluetooth® icon
- In the app click settings (cog icon) go to 'Systems' then 'Wi-fi'

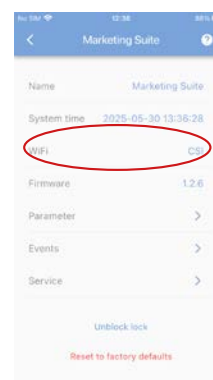


Lock control by users and admins

- Bluetooth®:
 - Only one user (or admin) can connect to the lock (not several at the same time)

i Notice: While an admin administers the lock via Bluetooth®, no user can access it.

- WLAN (eg Wifi):
 - Several users or admins can connect to the lock at the same time
 - Several users / admins with the "same login" (password / ID) can access the lock



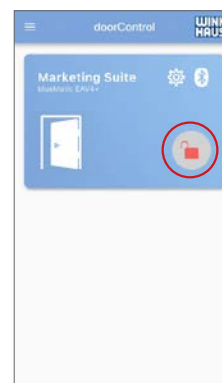
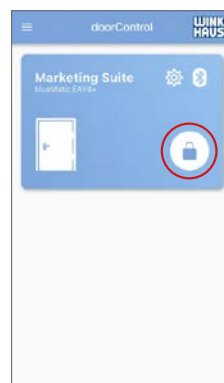
USER & QUICK SET UP GUIDE

7. Using the app

Unlocking

- Press "blue lock"  to open.
- The door has been successfully unlocked.
 - The lock icon will turn red and show as open  

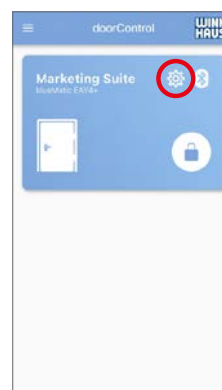
» Tutorial doorControl – Unlock Door
<https://youtu.be/JhNEw3CRD1c>



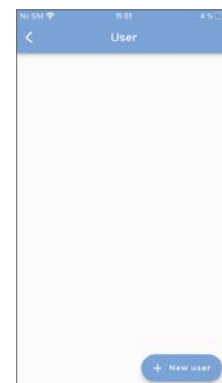
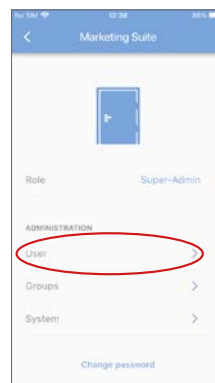
8 Adding another user

- To add another user, click 'settings' cog icon 

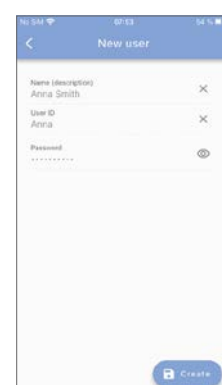
» Tutorial doorControl – Create New User
<https://youtu.be/e29amKwxKJI>



- Under 'Administration' click 'User'
- Click '+ New User' (bottom right of screen)



- Type in name of user (eg. Holiday guest)
- Set user id (upper case and lower case only, no spaces)
 - User ID corresponds to the login name when logging in
- Set a password for the new user and make a note
- Click 'Create'



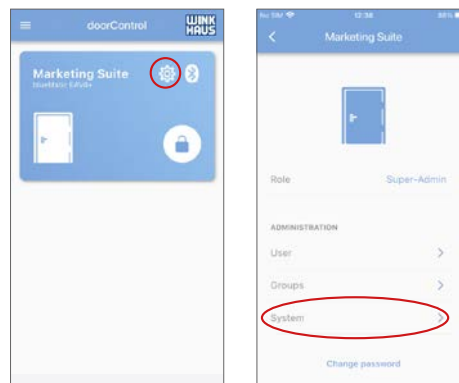
-
- The left screenshot shows the 'newdoor' app interface. At the top, the status bar shows 'No SIM', signal strength, time '11:01', and battery '47%'. The app header is 'newdoor' with a back arrow. The main content area has three sections: 'Name (mandatory)' with the value 'New Door' and a delete icon; 'Group' with the value 'None (user is deactivated)' and a dropdown arrow; and a 'Change password' button. At the bottom is a 'Delete user' button in red. A blue 'Add user' button is at the very bottom.
- The right screenshot shows the 'User' app interface. At the top, the status bar shows 'No SIM', signal strength, time '11:40', and battery '47%'. The app header is 'User' with a back arrow. The main content area is a list of users: 'Anna Müller' (Anna), 'Thomas Meier' (Thomas), and 'Max Schmidt' (Max). Each user entry has a right arrow. At the bottom is a blue '+ New user' button.

- To check for latest version of the app

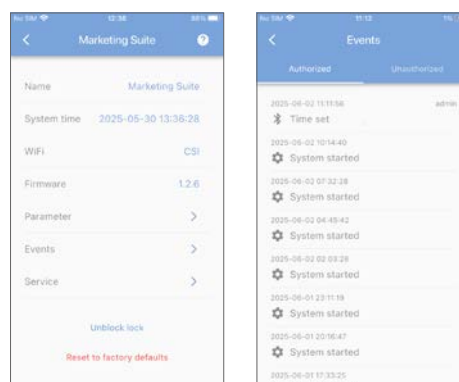
-

- Check events to track lock activity including unlocking and adding new users via lock page

- Check events to track lock activity including unlocking and adding new users via lock page



In the app click settings (cog icon) then 'Systems' then 'Events'

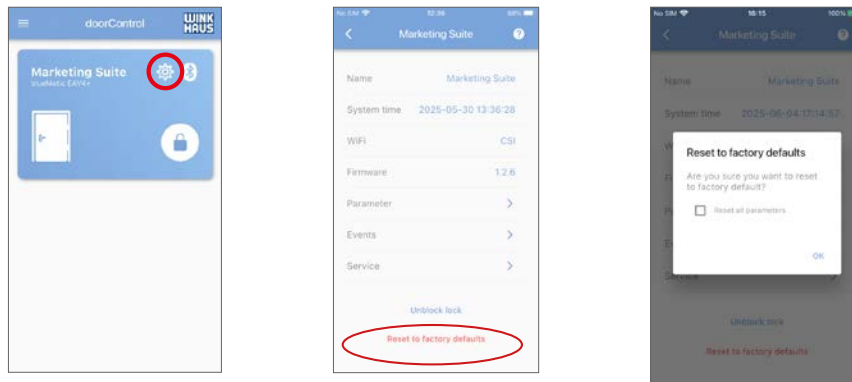


RESET OPTIONS

Resetting the lock (when moving house)

Reset to factory settings (with existing admin password)

⚠ Attention! The admin's app password must be available in order to reset the lock using this method



- In the app click 'Settings' (cog icon ) then 'Systems' then 'Reset to factory settings'
- A prompt screen will pop up to reset to factory default
- Click 'OK'

i Notice: Resetting will delete all users / other settings. You will need the QR code to set up the lock.

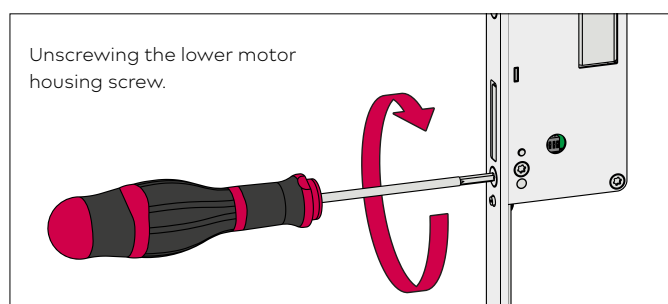
RESET OPTIONS

Reset to factory settings (with existing admin password)

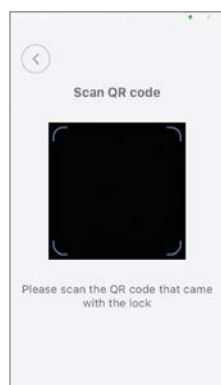
If you don't have the super admin password, you can reset the lock using the reset button within the lock motor housing unit. The reset switch can be reached and operated as follows:

! Attention! You will need the QR code used during initial set-up (e.g. on the motor housing label or the Winkhaus operating instructions sticker) to reset the lock using this method.

- Open the door to unscrew the lower motor housing screw on the lock to access the switch

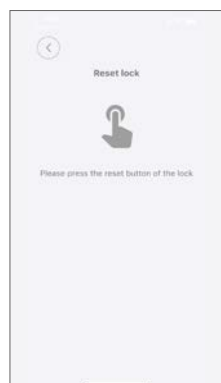


! Attention: Screw is left-hand thread. Unscrew as shown



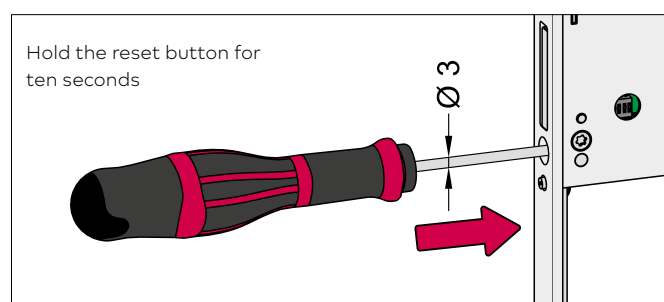
Before pressing the reset switch,

- Open the app and scan QR code (QR code used during initial set-up).
- Wait while the app locates your lock
- Once lock found, click 'Reset to factory defaults' at bottom of screen.



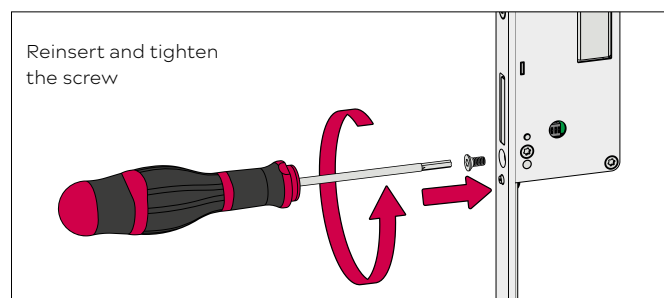
- On the app, a prompt screen will tell you to press the reset button

- When prompted, insert the 3mm screwdriver tool or similar into the hole and briefly press for ten seconds.



- You will now see a message confirming your lock is successfully reset.
- Click continue

- Reinsert the screw and tighten it.



i Notice: ALL settings such as admins / users / time profiles, etc. have been deleted.
Use the QR code to set up the lock for a new user.



Remember to leave the QR code for the next homeowner

MAINTENANCE & CARE

Maintenance & Care Guidelines

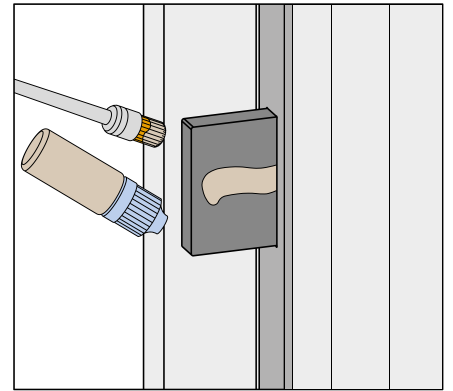
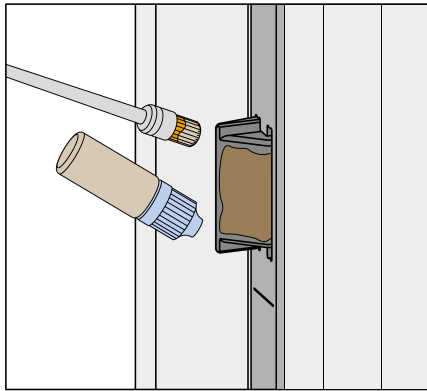
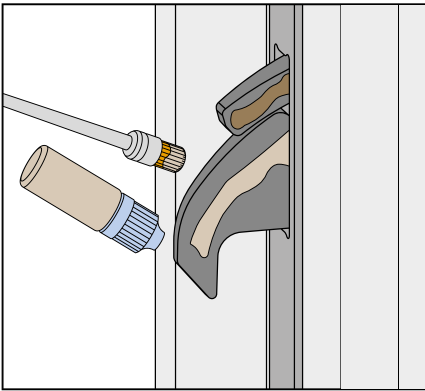
To ensure long-term performance, security, and reliability of your locking system, please follow these maintenance instructions:

1. Inspect Security-Relevant Components Regularly

- ▶ Periodically check all components of the door furniture for tightness and signs of wear.
- ▶ If necessary, retighten retaining screws and replace any worn or damaged parts immediately.

2. Test Locking Mechanism Every 3 Months

- ▶ Check the functionality and smooth operation of the security lock at least once every three months to ensure optimal performance.



3. Lubricate Moving Parts Annually

- ▶ At least once a year (or more frequently in high-use or high-stress environments), lubricate all movable and accessible sliding parts of the locking system with a light grease.
- ▶ Recommended products include:
 - Divinol Profilube SL (spray grease)
 - Divinol F14 EP
 - Shell Gadus S2 V100
- ▶ After lubrication, check the entire mechanism for both mechanical and electronic performance.

4. Use Non-Abrasive Cleaners Only

- ▶ To protect the anti-corrosion coating on door furniture, use only neutral cleaning agents that contain no abrasives or harsh chemicals.

5. Keep Electronic Components Dry

- ▶ Clean electronic parts only when dry. Avoid using water or liquid cleaning agents directly on any electrical components.

Regular care helps extend the life and reliability of your locking system. If in doubt, contact your installer or Coastal's technical team for advice on correct maintenance procedures.

ERRORS / CAUSES / TROUBLESHOOTING

Error / Display	Possible cause	Troubleshooting
 "Orange i"	Update	Perform (firmware) update
 "Red !" Overcurrent (Motor overload)	Unlocking or locking does not work smoothly, e.g. because: • The locking system has encountered an obstacle. • The door is warped. • The latch was not correctly engaged. • Profile cylinder cam position > $\pm 45^\circ$	Please contact customer service! Check door, e.g. pull door, open manually using key, press button to open door, perform function test. Furthermore: • Check locking keeps for damage • Check door adjustment (keeps, airgap) • Adjust latch plate • Check profile cylinder Attention! 10 Continuous beeps means the lock can't function.
 "Red !" Blocking of motorised lock	Continuous beeps means the lock can't function	Notice: To enable the lock to be operated electrically again after the fault has been rectified, tap "unblock" in the app. After that the following message is displayed: Notice: The blocking can also be removed by turning the power off and back on again after 30 seconds..
the door does not lock automatically	• the door is warped • the contact pressure is too high • the door has not been installed properly	• check the installation, and the keep adjustment and alignment • adjust the hinge plates (e.g. shimwell packers)
Display of locking status incorrect	magnetic clip without contact / not correctly adjusted	check whether magnetic clip is present (maybe it has dropped out or was not mounted at all), check airgap adjustment (if it is too large, magnet is not triggered)
WLAN cannot be connected / is not displayed in the app.	The lock's connection to WLAN is only available on a device with WPA2 encryption.	If the router does not have the WPA2 security standard, the network is not displayed. Use WPA2 capable router.
The system time of the mobile device and the app does not match	Lock disconnected from power for min. approx. 30 minutes	Synchronisation of system time For the access times in the app to function properly and securely, the system time of the mobile device must be synchronised with the app, so answer the app message with "OK".

Shaping the future.



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