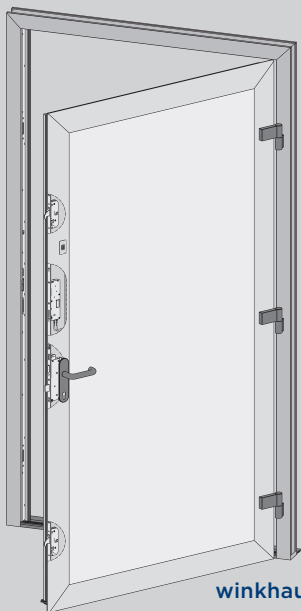
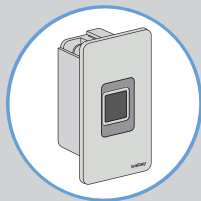


Installation, Operating and Maintenance Instructions
04/2025

blueMatic EAV4/EAV4+

Automatic locking system with motorised opening function



[winkhaus.com](https://www.winkhaus.com)

1



Link user manual blueMatic EAV4
<https://www.winkhaus.com/qr/com/bedienungsanleitung-eav4>

2

3

4



Link service page AV4D EAV4
<https://www.winkhaus.com/qr/com/service-av4d-eav4>

5

6

7

8



Link quick installation guide blueMatic EAV4
www.winkhaus.com/qr/com/quick-guide-eav4

9

10

11



Link user manual tappet contact
<https://www.winkhaus.com/qr/com/bluematic-eav/stoesselkontakt/bedienungsanleitung>

This security door locking system complies with the requirements and directives established and stipulated by the Council on the Harmonization of Legal Regulations of Member States regarding Electromagnetic Compatibility (2014/30/EU).

The manufacturer shall hereby certify the conformity of this product and document such by the CE marking according to the CPR EN 14846, the EU declaration of conformity according to EN 62368-1 (see chapter 10).

The following information and graphic images provided correspond to the current status of the development and manufacture of this product.

For the purpose of customer satisfaction and operational reliability of the blueMatic EAV4/EAV4+ (Automatic locking system with motorised opening function), we reserve the right to make changes to this product without notice.

All information and specifications given in this operating manual have been compiled and reviewed with the utmost care.

Due to the nature of advances in technology, or amendments to legal regulations and other compulsory changes we do not guarantee the accuracy and completeness of the contents' statements.

We always appreciate suggestions or comments.

The blueMatic EAV4/EAV4+ (Automatic locking system with motorised opening function) can be easily installed, if these operating instructions and the door specifications indicated have been adhered to.

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1 Important information

1.1 General information

Dear customer!

We would like to thank you for the trust and confidence you have put in us by purchasing our quality product. Please carefully read this installation, operating and maintenance instructions to become acquainted with the installation and use of this security lock and to avoid malfunctions and safety hazards.



Acceptance class B

Acceptance-No.: M 125309

(see chapter 10)

1.2 Intended use

The blueMatic EAV4/EAV4+ security door locking system and recommended Winkhaus components are suited to the following areas of application:

- Max. relative humidity 95%
- Ambient temperature between -10°C ... +55°C.

The entire door furniture has been explicitly designed to be used in conjunction with genuine Winkhaus parts. Other parts, not recommended by Winkhaus, may adversely effect the given properties of the security door locking system.

We shall assume you use the lock as intended.

Access control systems and accessories included in the standard Winkhaus scope of delivery have been inspected for proper performance. If you use components of another manufacturer and if you have any doubts about the suitability of the component, you will have to contact the respective manufacturer about its fitness for use.

To ensure the intended use:

- the information and instructions required for this purpose must be passed on to the respective persons,
- only trained professionals should install the door furniture, locking units and accessory parts according to the installation instructions. Applicable DIN, EN standards and BauPVO are about to follow.

The stipulations of use as intended have been met, once the Winkhaus fittings are:

- installed according to their defined purpose and installation specifications,
- not used in another way than described,
- maintained and cared for at regular intervals as instructed,
- is not used longer than the limits set for wear and tear,
- repaired by trained professionals in the event of malfunctions.

The supplier/manufacturer assumes no liability for personal injury or material damage resulting from improper operation or use.



Attention! For blueMatic EAV4/EAV4+ Standard requires the use of interchangeable fittings (handle on the inside of the door, knob/push handle on the outside of the door. Otherwise, when using handles on the inside and outside of the door, the door can always be opened from the outside using the handle.



Attention! Only special versions without a comfort opening function (e.g. AV4D or AV4D OR) must be included of interchangeable fittings (handle on the inside of the door, knob/push handle on the outside of the door.

1 1.3 Use contrary to the intended purpose

The locking systems are not designed to absorb or compensate for changes in shape or changes in the closing mechanism of the door caused by fluctuation in temperature or in the structure of the building.

Waterproof doors or doors designed to contain aggressive corrosion-promoting air require special door furniture.

The locking systems are incorrectly used – that is used contrary to the terms described above – in evident in particular, if:

- the instructions on the intended use are not being followed;
- the problem-free operation is hindered due to the installation of external objects and/or objects that are not purpose-conformant in the opening zone, the locking system or within the keeps;
- the locking system or the keep is manipulated in such a way that their design;
- mode of operation or function is changed;
- the door is drilled through in the area of the lock housings or of the lock rod once the lock has been installed;
- the dead bolt projection or other locking components are employed contrary to their intended purpose, as a means to hold the door opened;
- the handle's wire is driven through the spindle with force;
- the lock components are installed improperly or are tampered with, e.g. by painting over moveable parts such as the bolt or the latch;
- loads exceeding those of normal manual force are transmitted via the safety key onto the lock system;
- perform a manual or mechanical locking or unlocking during the motor is working;
- the handle is turned counterclockwise or if a force greater than 150 N is exerted on the handle;
- the clearance between the door frame and sash is increased or decreased, which would for instance result from readjusting the hinge plates or from lowering the door;
- if auxiliary lifting tools or other tools are used to open or close the lock;
- the handle and key are used at the same time;
- the lock is opened/closed with objects not intended for that purpose;
- the size of the door opening deviates from the specifications prescribed.

1.4 Explanation of symbols

Flags are used to identify important information in this installation, operating and maintenance instructions. Flags such as DANGER or CAUTION indicate the degree of hazard.

It is imperative that you do follow the measures listed to avoid safety hazards!



DANGER!

This warning symbol and signal word is used to identify a high-risk hazard that will result in immediate death or serious injury if not avoided.



Warning!

This warning symbol and signal word is used to identify a medium-risk hazard that could potentially result in death or serious bodily injury if not avoided.



Caution!

This warning symbol and signal word is used to identify a low-risk hazard that could result in minor or moderate physical injury if not avoided.



Attention!

This symbol and signal word is used to indicate possible material damage.



Notice:

This symbol highlights useful tips and recommendations as well as information for efficient and trouble-free operation.



Environment protection:

This symbol and signal word is used to identify a possible danger to the environment.



Disposal!

This symbol and signal word is used to identify environmental damage caused by incorrect disposal of batteries and electronic components. The electronic fitting parts must be disposed of properly. Disposal as domestic waste is prohibited. Therefore, dispose of the electronic fitting parts in accordance with European Directive 2012/19/EU at municipal collection points for electrical waste or have them disposed of by a specialist company.



Caution fragile!

Handle with care!



Never throw!

Do not stack or drop.

1.5 Safety information

Safety information described in this section is to be diligently adhered to regarding the installation and use of the security door locking systems blueMatic EAV4/EAV4+!

You are to heed the safety information provided without exceptions!

- Read the quick installation guide and keep it accessible. Pass them on to the end customer after having installed the entrance door.
- The manufacturer shall not be held liable for damage caused by use contrary to the intended purpose of the product.
- For security reasons, the lock has been designed to be used in conjunction with genuine Winkhaus parts. Using other parts may adversely effect the given properties of the security lock.
- It must be ensured that the door can be closed without any problems by the key.
- Installation/repair of electrical equipment requires expertise, thus such work should only be carried out by an electrician.

- Arbitrary modifications, changes or makeshift repairs are not permitted due to concerns for safety. You must only use genuine Winkhaus parts for replacements.
- The manufacturer shall only be held liable for security related properties of the power lock as stipulated within the bounds of statutory regulations, if the manufacturer himself or another instructed, authorized agent has carried out the maintenance and upkeep work or made the changes.
- Winkhaus does not accept liability for any type of damage caused by inadequate repair, modification or maintenance works made.



Attention! The wiring/cable transitions must be installed in the safe area (e.g. installed concealed in the airgap) and protected against manipulation.

1.5.1 Safety information regarding blueMatic EAV4+

For the correct use of blueMatic EAV4+ , please read the quick installation guide carefully before putting the product into operation. Observe the information given and follow the instructions described. Failure to comply with the notes and instructions does not guarantee proper functioning of the product. Do not disconnect the blueMatic EAV4+ system from the power supply during initial installation or an update process. The resulting loss of data may entail the failure of the device and requires it to be sent to the service partner. blueMatic EAV4+ is intended for private use or use in small commercial units.

The locking system must generally be protected against moisture and manipulation. Any use other than that described in these operating instructions is not in accordance with the intended use and will result in disclaimer of warranty and liability.

This also applies to modifications and alterations to the device. Don't open the device under any circumstances! In the event of an error, contact the relevant service department.



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.

1.5.2 Safety instructions for smartphones (only EAV4+)

Make sure that your smartphone's virus scanner and firewall are always up to date. This is the only way to protect yourself from attacks from the Internet. Regularly check that your software is up to date and install the available updates.



Attention! When establishing a WLAN connection (incl. router + corresponding password), pay attention to the necessary security requirements, e.g. secure and strong passwords (at least 8 characters, including upper/lower case letters, numbers, special characters) and change them at certain intervals.

1.5.3 Notes on wireless operation (e.g. Bluetooth®/WLAN, only EAV4+)

Radio transmission takes place via a non-exclusive transmission path. This may cause interference from other radio applications. Electric motors or defective electrical devices may also cause malfunctions. The transmission performance and reception characteristics of blueMatic EAV4+ depend heavily on structural conditions. This means that the range in the open field is different from that in buildings. Likewise, the signal is transmitted differently at high humidity than at low. When using WLAN, it must be ensured that it is available in front of the entrance door/outside the house.

1.5.4 Notes on the doorControl App (only EAV4+)

- Support period for the app after product discontinuation: 2 years
- Available app languages: EN/EN/ES/NL/FR as well as in other national languages
- Before initial start-up, it is strictly mandatory to check whether a (firmware) update is available and installed!
- During the firmware update, the system cannot be used or can only be used to a limited extent!
- Never disconnect the system from the power supply during the update process! Damage may occur as a result. Repeat the update.
- In the case of tappet contacts, the door sash must be closed during the update!
- Due to the large number of mobile devices/smartphones available, it cannot be guaranteed that the Winkhaus doorControl App will work on all devices and in full, see also doorControl website (FAQ).
- A Bluetooth® or WLAN connection is required to use the app (not necessarily an Internet connection).
- Only app and firmware updates require an Internet connection of the smartphone.

<https://www.winkhaus.com/en/doorControl>



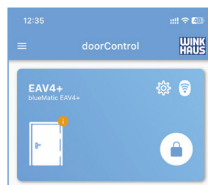
Notice: The lock does not connect to the Internet, but only to the smartphone via WLAN.

Winkhaus records the following telemetric data for analysis and root cause research:

- Number of motor cycles
- Under voltage
- Poor operation/movement
- Opening attempts
- Operating system/version + smartphone type
- App/firmware version
- Within the app, only the smartphone functions of the camera are used (to scan the QR code).

The info icon

- appears on the door icon
- is clickable and opens setting options
- here the current software status is shown
- necessary changes/updates (e.g. firmware update) can be made



1.5.5 Safety instructions for access control systems

Various (customer-provided) access control systems can be used in conjunction with the security door locking system – either in the door element or externally. Pay attention to the appropriate security level here.



Notice: SKG certification of products with third-party electronic components:

This product is SKG certified. Please note that the certification is only valid if the operation of the products meets the requirements as stated in the applicable SKG-IKOB – AE 3104.



Notice: In order to comply with the VDS approval for the complete electronic access control/locking system, the electrical activation for opening must be carried out by a VdS-approved access control system.

1.6 Abbreviations/Explanations

The following terms and abbreviations are used in this manual:

T-	Product area security door lock
AV4D	Mechanical locking autoLock AV4D with with security hook + sealing element, (automatic locking system) 4. generation

EAV4	Motorized locking blueMatic EAV4 (Automatic locking system with motorised opening function without app functionality)
EAV4+	Motorized locking blueMatic EAV4 (Automatic locking system with motorised opening function with app control)
Handle	Door handle
Grt.	Set
SB FRA	Center keep - latch/dead bolt/adjustment plate
M2	with 2 hooks
MV	means "upper adjustment"
UMV	means "lower adjustment"
RS	DIN-right-handed
LS	DIN-left-handed
GR	Surface grey powder coated
MC	Surface matt chrome-plated
ZKS (ACS)	Access control system
UP-socket	Flush-type box
LED	Light emitting diode
PE	Ground wire
N	Neutral wire
L	Phase
AC	Alternating current
DC	Direct current
NO	Make contact
NC	Break contact
NO-NC	Changer contact
*	Holes for magnetic clips in SL's or GRT SL's
**	croppable
***	Milling for motor housing can be optionally retrofitted
A	Distance
D	Backset
G	Handle position
H	Rear backset
FFH	Sash rebate height
L	Length

The blueMatic EAV4/EAV4+ (Automatic locking system with motorised opening function) is a state-of-the-art locking unit for securing and locking entry doors in a contact-free manner. The hooks and the latch can be retracted electrically so as to open the door.

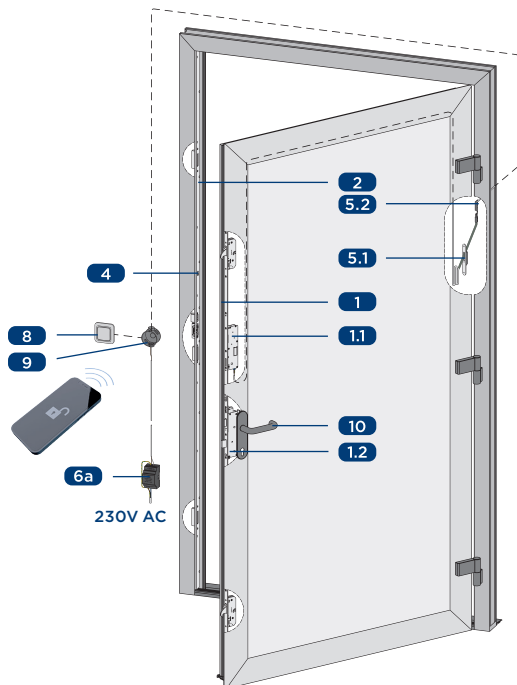


Figure 2-1: Locking blueMatic EAV4/EAV4+ with continuous keep rail and accessories (EAV4+ with app control)

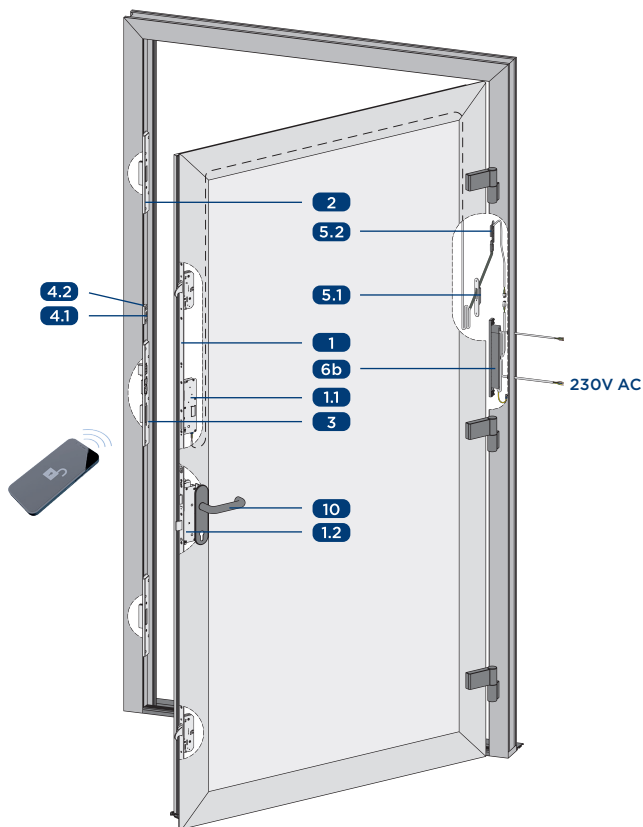


Figure 2-2: Locking blueMatic EAV4/EAV4+ with single keep and accessories as well as frame power supply 24V DC (EAV4+ with app control)

No.	Name	MUST! Mandatory *	Available as on accessory or as on option	Supplied by customer/ not included in delivery
1	Security door locking systems STV-AV4D F/U ...	X		
1.1	Motor housing EAV4/EAV4+ (24V)			
1.2	Caja del motor			
2	Keep rail T-SL.../Extension keep set T-Grt. SL.../Single keeps T-SB...	X	X	
3	Center keep T-SB FRA ... AV ...	X	X	
4	T-MAGNETCLIP 1,0/1,5 EAV4+/BM+ GR (can be used individually with keep rail/extension keep set) **	X	X	
4.1	T-MAGNETCLIP 1,0/1,5 EAV4+/BM+ SB U24X7,5/SB U24X5,5 GR (can be used with individual single keeps, also with a height of 5.5 mm) **	X	X	
4.2	Spacer for magnetic clip (for profile adjustment in PVC-U)		X	
5	Cable transition		X	
5.1	Cable transition sash part T-KÜ-T1 FT T-KÜ-T1 FT 2M/3,5M/4,5M, sash part with cable 2 m, 3,5 m resp. 4,5 m long, including plug for motor housing		X	
5.2	Cable transition frame part (suitable the sash part T-KÜ-T1 FT ...)		X	
5.2a	T-KÜ-T1 RT KABEL 4M including cable 4 m for connection of external access controls, eg. intercom, potential-free contact			

No.	Name	MUST! Mandatory *	Available as on accessory or as on option	Supplied by customer/ not included in delivery
5.2b	Alternativ: T-KÜ-T1 RT KABEL 0,6M RNT with plug connection to the frame power supply 24V DC (optional)			
5	Alternatively with a set tappet contact		X	
6	Power supply		X	
6a	Power supply T-HT NETZTEIL 24V DC / 2,5A mounting on DIN rail			
6b	Alternativ: Frame power supply T-NETZTEILRAHM 24VDC 1,5A (2,5A/2s) BM+/EAV4 (optional) including cable for connection of ex- ternal access controls, e.g. intercom, potential-free contactt			
7	Access Control Systems smartphone / app (only with EAV4+)			X
8	"Open" button			X
9	Flush-type box			X
10	Handle			X

* Remaining components recommended for use, or should be used
alternatively

** Magnetic clip for EAV4+ urgently required / not necessary for EAV4


1 Automatic security door locking autoLock AV4D

2

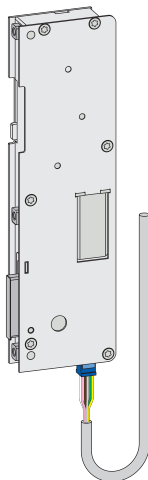


The autoLock AV4D locking system is an automatic security door locking system with independently acting hooks for claw action and sealing elements for dynamic contact pressure. By simply pulling the door closed, the sealing elements and the solid hook are triggered via a magnetic release on the frame and the door is secured against undesired entry. This ensures that the door always remains securely locked and remains firmly in its frame even without additional locking. The solid hooks, the sealing elements and the latch can be retracted manually using a profile cylinder or door handle.

1 Automatic security door locking autoLock AV4D

Part description	Backset	Part-no.
T-AV4D-F1660 ...	35, 40, 45, 55, 65	 For more information on the part description and part number, see the online product catalogue.
T-AV4D-F1662 ...	35, 40, 45, 50, 55	
T-AV4D-F1669 ...	35, 40, 45, 50, 55, 65	
T-AV4D-F2060 ...	35, 40, 45, 50, 55, 65, 80	
T-AV4D-F2062 ...	40, 45, 50, 55, 65	
T-AV4D-F2069 ...	45, 50, 55, 65, 80	
T-AV4D-F2460 ...	35, 40, 45, 50, 55, 65	
T-AV4D-F2462 ...	35, 40, 45, 50, 55	
T-AV4D-F2469 ...	35, 40, 45, 50, 55	
T-AV4D-U2293 ...	35, 45	
T-AV4D-U24184 ...	40, 45, 50, 55	
T-AV4D-U2460 ...	35, 40, 45, 50, 55, 60, 65	
T-AV4D-U2462 ...	35, 40, 45, 50	
T-AV4D-U2469 ...	35, 40, 45, 50	
T-AV4D-U2471 ...	35, 45, 55	
T-AV4D-U2480 ...	45, 50	
T-AV4DOR-F1660 ...	35, 45	
T-AV4DOR-F2060 ...	45, 50, 55, 65	
T-AV4DOR-F2062 ...	65	
T-AV4DOR-F2069 ...	65	
T-AV4DOR-F2460 ...	45	
T-AV4DOR-U2460 ...	35, 40, 45, 50	
T-AV4DOR-U2462 ...	40	
T-AV4DOR-U2471 ...	35	

1.1 Motor housing blueMatic EAV4/EAV4+



Motor housing for powered unlocking,
with integrated control unit, but without cable

- Scope of delivery: individual motor housing,
for retrofitting mechanical locking systems
autoLock AV4D, AV4 or AV3
- Variants:
 - Motor housing EAV4: standard variant,
without app control
 - Motor housing EAV4+: with app control

Motor housing single

T-MOTORKASTEN EAV4 (24V) BL ¹⁾	5096286
T-MOTORKASTEN EAV4+ (24V) BL ¹⁾	5096287

- ¹⁾ to retrofit simply screw to the Automatic
locking system autoLock AV4D.

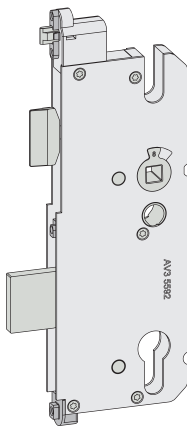


Attention!

Pay attention to left-handed thread!

1.2 Lock housing autoLock

2



Lock housing is suitable for autoLock AV4D/AV4 locking systems and also backwards compatible for autoLock AV3.

The multi-point locking system locks the door reliably and tightly – even when it is closed, without having to lock it with the key. A central magnetic trigger makes for a smooth locking mechanism. This makes scuffs and scratches from latches or the tracer pin on door keeps a thing of the past. Its discreet look is due to the reduction of visible mechanical elements.

And if you want to be even more secure before a holiday or other longer absence, activate the holiday function and the main deadbolt with just one turn of the key and thus prevent the door from being opened from the inside.

Holiday lockout function:

When the door sash is closed, the door is locked mechanically. In this state, the door handle can be conveniently unlocked from the inside at any time. If the locked door sash is additionally locked with a profile cylinder, the inside handle is blocked (holiday lockout function). Electrical unlocking from outside is not possible.

2 Keep rail/extension keep set/single keeps

2



Attention!

Magnetic clip for EAV4+ urgently required. Without a magnetic clip, the "door closed" status query is not possible.

Keep rail/extension keep rail with additional hole (4.5 mm) for installation of the magnetic clip.

For single keeps, the magnetic clip with keep must be used.

The magnetic clip is required for the status query in the app and for the wired signal output (e.g. "Door closed and locked" signal).



Notice: The magnetic clip must generally be ordered separately. For single keeps, the magnetic clip with keep (e.g. T-MAGNETCLIP 1,0 EAV4+/BM+ SB U24X5,5 GR, T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR) must be used.

Select the appropriate frame components (keep rail/extension keep set/single keeps) in the online STV configurator:

Example: profile Deceuninck Elegant Infinity 76
→ T-Grt. SL U26-76 ...

Please always do include the following specifications when placing your order: **DIN-right-handed or left-handed**

3 Center keep FRA ... AV ...



Center keep for latch and deadbolt, provided for retrofitting a T-TAGESFALLE "TAFÄ" or electric strike, for PVCu /Vinyl, aluminium and wooden entrance doors.

Select the respective keeps according to the profile systems in the online STV configurator.

3.1 Magnetic trigger for center keep FRA ... AV ...

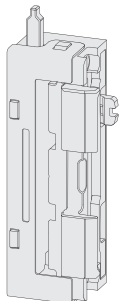


Magnetic trigger for contact-free magnetic release for autoLock AV4D/AV4/AV3. Can be retrofitted in center keeps FRA ... AV ... with magnet hole.

T-G1 MAGNETAUSLÖSER 9 MV K AV3	5014379
T-G1 MAGNETAUSLÖSER 13 MV K AV3	5009111
T-G1 MAGNETAUSLÖSER 9 UMV K AV3	5009109
T-G1 MAGNETAUSLÖSER 13 UMV K AV3	5009110
T-G1 MAGNETAUSLÖSER 13 UMV AV3 908	5034506
T-LF G1 MAGNETAUSLÖSER 7 UMV K AV3	5053727

3.2 Daytime latch "TAFE"

2



Fold-down daytime latch with mechanical adjustability by means via integrated switching lever.

Part description

Standard Daytime latch 9-91

T-TAGESFALLE 9/91 TAFE FA STARK RS	5015109
T-TAGESFALLE 9/91 TAFE FA STARK LS	5015108

Daytime latch with lower contact pressure 10-9 (can be used with standard - T-SB FRA or FAB1, not with FAB)

T-TAGESFALLE 10/9 TAFE FA STARK RS	5015111
T-TAGESFALLE 10/9 TAFE FA STARK LS	5015110

Daytime latch with higher contact pressure 9-92.5

T-TAGESFALLE 9/92,5 TAFE FA STARK RS	5041969
T-TAGESFALLE 9/92,5 TAFE FA STARK LS	5041970

Daytime latch O, »Permanently open« (replacement for roller latch)

T-TAGESFALLE-O 9/91 TAFE FA STARK	5042652
T-TAGESFALLE-O 10/9 TAFE FA STARK	5042651

STRONG = design with strong spring for higher sealing pressure

4 Magnetic clip/Magnetic bush



Magnetic clip for triggering the automatic locking system

- used with extension keep rails/keep rails
- keep rails are pre-drilled (diameter 4.5 mm)
- easily clippable
- adjustable +/-3 mm
- can be used for high residual airgaps between frame and upper edge of faceplate/lock (see Chapter 3.2)

T-MAGNETCLIP 1,5 EAV4+/BM+ GR

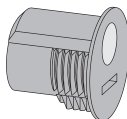
5092487



- can be used for low residual airgaps between frame and upper edge of faceplate/lock (see Chapter 3.2)

T-MAGNETCLIP 1,0 EAV4+/BM+ GR

5097915



Magnetic bush UMV/H4 for triggering the automatic locking system

- special for timber entryway doors with on airgap of 4 mm
- for 9 mm eurogroove position (or greater)
- adjustable +/-3 mm
- Hole of Ø 13.5 mm required (see Chapter 3.2)

T-MAGNETBUCHSE UMV/H4 KS GR

2126723



Notice: The magnetic clip must be ordered and installed separately for keep rails.

For single keeps, the below-mentioned magnetic clip with keep must be used.

4.1 Magnetic clip + keep



Magnetic clip + keep for triggering the automatic locking system

- for use with single keeps for PVC-U/wood/aluminium
- can be used for high residual airgaps between frame and upper edge of faceplate/lock (see Chapter 3.2)
- keep height 7.5 mm here
- adjustable +/- 3 mm
- use adapter parts for profile adjustment in PVC-U
- no routing required for PVC-U/aluminium
- for wood 4 mm airgap with 13 mm eurogroove position = with end caps from STK/RNT = can be milled in

T-MAGNETCLIP 1,0 EAV4+/BM+ SB U24X7,5 GR	5097918
T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR	5092492



Magnetic clip + keep for triggering the automatic locking system

- for use with single keeps for PVC-U/wood/aluminium
- can be used for low residual airgaps between frame and upper edge of faceplate/lock (see Chapter 3.2)
- keep height 5.5 mm here
- adjustable +/-3 mm
- use adapter parts for profile adjustment in PVC-U
- no routing required for PVC-U/aluminium

T-MAGNETCLIP 1,0 EAV4+/BM+ SB U24x5,5 GR	5097923
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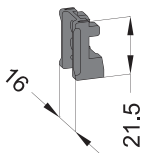
T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24x5,5 GR	5097264
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Notice:

For airgap table for using magnetic clip, see installation Chapter 3.2 Magnetic clip

4.2 Spacer for magnetic clip keep

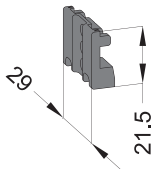


Spacer FR-K

for 7.5 mm keep for profile adjustment of (especially PVC-U profiles), approx. 16 mm long, each packed in a polybag of 10 pieces.

Application for:

Magnetic clip keep U24 X 7.5 and frame power supply unit or tappet contact



Spacer M

for 5.5 mm keep for profile adjustment of approx. 29 mm long.

Application for:

Magnetic clip keep U24 X 5.5

For assigning the spacer to the profile, see the following table.

PVC-U Profil manufacturer / profil variants	Spacer FRK	Part-no.	Spacer M	Part-no.
Actual				
Actual Solar	U26-76	5040241	U26-76	5076620
Actual Solar	U26-176	5040241		
Alphacan				
Alphacan Alpha 70/NT	U26-176	5040241		
Alphacan Alpha MD Plus	U26-144	5039927	U26-144	4994673
aluplast				
Ideal 2000 AD	U26-61	5040241	U26-61	5076619
Ideal 4000 AD / 7000 AD / 8000 MD	U26-144	5039927	U26-144	4994673
Deceuninck				
Mondial 2000	U26-69	5040241		
Zendow 3000	U26-176	5040241		
ZendowNEO	U26-176	5040241		
Deceuninck Arcade / Eforte / Prestige	U26-192	5039928	U26-192	5076615
Deceuninck Elegant Infinity 76 / Elegant ThermoFibra Infinity 76	U26-76 U26-176	5040241 5040241	U26-76	5076620
Dimex				
KOMFORT 6.0	U26-144	5039927	U26-144	4994673
CONTOUR 7.0 AD / 7.0 MD	U26-61	5040241	U26-61	5076619
ELEGANCE 8.0 AD / 8.0 MD	U26-61	5040241	U26-61	5076619
Funke				
Helios System 70 mm	U26-176	5040241		
GEALAN				
S 3000 / S 7000 IQ / S 8000 IQ / S 9000 / S 9000 plus	U26-62	5039932	U26-62	5076617
KBE (profine)				
System 70 / 70 CL / 70 EL / 76 AD / 88 AD / 88 MD	U26-76	5040241	U26-76	5076620

PVC-U Profil manufacturer / profil variants	Spacer FRK	Part-no.	Spacer M	Part-no.
Kömmering (profine)				
Eurodur 3S / EuroFutur Classic AD / EuroFutur Elegance / EuroFutur MD Exclusiv / MD 70	U26-144	5039927	U26-144	4994673
70 / 76 AD / 76 MD / 88 AD / 88 MD	U26-176	5040241		
LB. Profile				
PAD 60 / PAD Contour / PCD 70 Concept AD / PCD 70 Concept MD / PCD 82 Concept MD	U26-76	5040241	U26-76	5076620
Plustec				
euoline	U26-76	5040241	U26-76	5076620
Rehau				
Thermo-Design / Thermo-Design 70 / Brilliant-Design / Geneo / Synego AD / Synego MD	U26-61	5040241	U26-61	5076619
Roplasto				
System 7001 AD / System 7001 AD NT	U26-76	5040241	U26-76	5076620
Salamander				
bluEvolution 82 AD / bluEvolution 82 MD / greenEvolution 76 AD / greenEvolution 76 MD / greenEvolution Curve 76 AD / greenEvolution Curve 76 MD / greenEvolution Box 76 AD / greenEvolution Box 76 MD	U26-176	5040241		

PVC-U Profil manufacturer / profil variants	Spacer FRK	Part-no.	Spacer M	Part-no.
Salamander				
bluEvolution 92/ STREAMLINE AD/ STREAMLINE MD/ System 3D	U26-228	5039929	U26-228- 1.3	5076616
Schüco				
Corona AS 60	U26-311	5039927		
Corona CT 70 AS/ Corona SI 82/Living 82 AS	U26-61	5040241	U26-61	5076619
Stöckel				
Ecostep	U26-311	5039927		
Trocal (profine)				
CONFORT / InnoNova 70.M5 AD/ InnoNova 70.A5 MD	U26-61	5040241	U26-61	5076619
70/76 AD/76 MD/88 AD/88 MD	U26-76	5040241	U26-76	5076620
	U26-176	5040241		
Tryba				
H58/H58-2	U26-76	5040241	U26-76	5076620
Veka				
SOFTLINE 70 AD NT/ SOFTLINE 70 MD/ SOFTLINE 76 AD NT/ SOFTLINE 76 MD NT/ SOFTLINE 82 AD NT/ SOFTLINE 82 MD NT/ SWINGINE/ TOPLINE AD NT/ TOPLINE MD/ ALPHALINE 90 AD	U26-76	5040241	U26-76	5076620
Wymar				
Serie 2500	U26-76	5040241	U26-76	5076620
Serie 3000	U26-311	5039927		

4.3 Cover for wood, 4 mm airgap



Cover for wood, 4 mm air gap, with 12 mm radius for frame part tappet contact or frame power supply, in packages of 10 pieces in a plastic bag

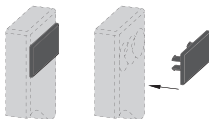
T-LB ENDKAPPE STK/RNT
HOLZ H4 R12 SW

5035742



Notice: Cannot be used with keeps T-MAGNETCLIP 1,0 EAV4+/BM+ SB U24X5,5 GR as well as T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X5,5 GR.

4.4 Screw cover



Magnetic clip can be used to optionally cover the screw holes on the frame power supply unit, tappet contact and striking plate (with central screw connection).

T-SET 10 X SCHRAUBABDECKUNG
RNT+STK 4MM SW

5044566

5 Cable transition

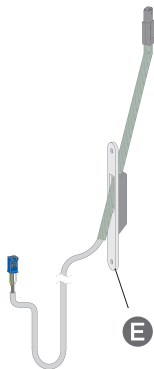
For power supply to consumers in the door sash, cable transitions (details in the following text) can be used.



Attention! The cable transitions must be installed in the safe area (e.g. installed concealed in the airgap) and protected against manipulation.

5.1 Cable transition sash part T-KÜ-T1 FT ...

5.1a Cable transition sash part T-KÜ-T1 FT 2/3,5/4,5 m



Plug-in and concealed cable transition

- Inserted by plug-in function, with retaining screws (3 x 20 mm)
- Sash part with spring sleeve in different versions (see table)
- Order frame part separately (see 5.2)
- Order cover plate separately **E**
- Installed concealed in the airgap
- Electric interface between sash and frame with 6 wires (max. 48 V DC/2 A each wire)
- color silver/grey
- No routing for > 11 mm airgap needed, suitable for PVCu and aluminium entrance doors (depends on the system), with appropriate routing it is suitable for timber doors

Recommendation: It is recommended that the cover plate (depends on the faceplate and the material type of timber, PVCu/Vinyl or aluminum) conceals the routing for the required cable reserves to prevent possible cable damage.

Part Description	Part-no.
A T-KÜ-T1 FT 2M	5040501
plug-in and lying buried, sash part with cable 2 m + plug for motor housing	
T-KÜ-T1 FT 3,5M	5040505
plug-in and lying buried, sash part with cable 3.5 m + plug for motor housing	
T-LE KÜ-T1 FT 4,5M	5071245
plug-in and lying buried, sash part with cable 4.5 m + plug for motor housing	
B T-KÜ-T1 RT KABEL 4M	5040503
Frame part with 4 m cable and cable end sleeves	
C T-KÜ-T1 RT KABEL 0,6M RNT	5040504
Frame part with 0.6 m cable and plug for frame power supply inclusive cover strip STV-KÜ-T1 RT R8	
T-VERLÄNG. KABEL 4M STK/KÜ M. BUCHSE	5040237
When using frame part 0.6M, if no frame power supply unit is installed.	
E T-ABDECKBLECH KÜ-T1 FT F16 R8 MC	4990670
Cover plate for sash, flat faceplate 16 mm, round ends R8, length 126 mm, suitable for PVCu (timber if necessary)	
T-ABDECKBLECH KÜ-T1 FT F20 R10 MC	4990671
Cover plate for sash, flat faceplate 20 mm, round ends R10, length 130 mm, suitable for timber (PVCu if necessary)	
T-ABDECKBLECH KÜ-T1 FT F24 KANT MC	5018556
Cover plate for sash, flat faceplate 24 mm, square, length 134 mm, suitable for ALU (PVCu if necessary)	
T-ABDECKBLECH KÜ-T1 RT F24 X 350 MC	5028782
Cover plate for frame, flat faceplate 24 mm, angulate, square, length 350 mm, suitable for ALU (with fitting groove 24 mm), suitable for example for heroyal D92 UD	

5.2 Cable transition frame part for T-KÜ-T1

5.2a Cable transition frame part for external power supply

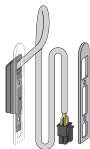


Frame part with 4 m cable and cable end sleeves
(6 wires)

T-KÜ-T1 RT KABEL 4M

5040503

5.2b Cable transition frame part for frame power supply



Frame part with 0.6 m cable and plug for frame
power supply inclusive cover strip STV-KÜ-T1 RT
R8, to cover the profile hole on the frame side

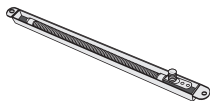
T-KÜ-T1 RT KABEL 0,6M RNT

5040504



Notice: If no separable cable transition (e.g. T-HT KÜ M1188) or no Winkhaus cable transition is used, then the cable **T-HT ANSCHLUSSKABEL 6M/6ADRIG FÜR MOTOR (5104567)** for motor housing must be used.

5.3 Cable transition T-HT KÜ M1188



Cable transition for fitting by cutting, to be suited for timber entryway doors

- extremely rugged design
- of chromium-plated steel
- concealed in the rebate

T-HT KÜ M1188

2126942



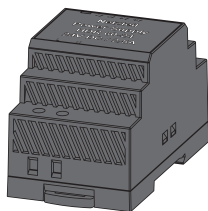
Notice: In the case of cable transition T-HT KÜ M1188, the cable is continuous and cannot be separated.



Notice: As an alternative to the above-mentioned cable transitions, it is also possible to use a tappet contact. For details, see Chapter 9/Accessories or "blueMatic EAV tappet contact operating instructions".

6 Power supply

6a External power supply



Power supply unit for blueMatic EAV4 / EAV4+
input: 100 - 240V, 50/60Hz,
output: 24V DC/2,5A,
mounting on DIN rail, includes connection
diagram

T-HT NETZTEIL 24V DC/2,5A

2126934



Notice: The Winkhaus power supply 24V DC is designed for the operation with Winkhaus locks. In addition, small consumers (e.g. fingerprint in the door element) can be supplied with this power supply - up to an additional power requirement of max. 0.5A and the voltage requirement must match the power supply (24V DC).

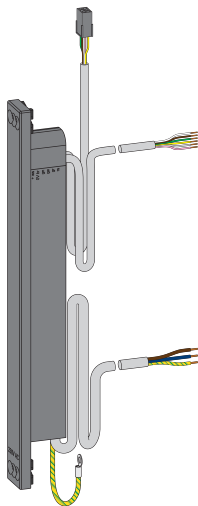


Notice: Operation of a second blueMatic EAV4/EAV4+ locking system with the same power supply is not possible. A separate power supply must be used for each lock.

If you do not use the Winkhaus power supply unit, please keep in mind the following information:

- Power supply 24V DC (stabilized)
- min. 1,5A continuous current (min.2,5A peak current)
- min. 36W
- tested according to EN62368
- with LPS (Limited Power Source = power source with limited power)

6b Frame power supply (optional)



The Winkhaus frame power supply is a switching power supply (single-phase, primary pulsed installation current supply, high pulse load capacity, short-circuit proof, open-circuit proof, high efficiency, thermal overload protection). The power supply is suitable for mounting in the frame, on the construction site only the principal voltage (230V AC) has to be made.

- 4 m cable for connection 230V AC with cable end sleeves
- 0.4 m cable with eyelet (M4) for earthing the door profile
- 0.2 m cable with plug for connection with cable transition frame part T-KÜ-T1 RT KABEL 0,6M RNT
- 4 m cable (6-wire) for external signal (potential-free contact - switching time min. 0.5 seconds) from external access control systems including voltage supply (output)

T-NETZTEILRAHM. 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
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Warning! Cable for external signal at frame power supply is current (24V DC), do not connect external voltage!

Insulated in delivery state, always **INSULATE** in the event of a reduction (e.g. adaptation to the installation situation).



DANGER! The door profile must be grounded properly (secure the eyelet for earthing securely to the metal profile).

Use cable grommet at 230V cable (2 x included)!

No external voltage on output for external signals.



Caution! For the combination of the blueMatic EAV4/EAV4+ access control system, the Winkhaus power supply T-HT NETZTEIL 24V DC/2,5A must not be overloaded with more than 2.5A! With the combination with frame power supply T-NETZTEILRAHM. 24V DC the power supply should be charged max. permanently with 1A and max. 2,5A will be charged for 2s!



Notice: The Winkhaus frame power supply 24V DC is intended for the operation of Winkhaus locking systems. In addition, small consumers (e.g. finger scanners in the door element) can also be supplied with this frame power supply unit – up to an additional power requirement of max. 0.2A and the voltage requirement must match the frame power supply unit (24V DC).

7 Access control systems

Access control systems ZKS:

- Winkhaus app (no additional wiring required)
- e.g. code keyboards, fingerprint systems (pre-assembled plug & play cable sets are available for common sash-side access control systems)



Notice: In order to comply with the VDS approval for the complete electronic access control/locking system, the electrical activation for opening must be carried out by a VdS-approved access control system.



Notice:
SKG certification of products with third-party electronic components:

This product is SKG certified. Please note that the certification is only valid if the operation of the products meets the requirements as stated in the applicable SKG-IKOB – AE 3104.

3 Installation

3.1 Routing details

Routing for a standard triple-point lock are required to install the blueMatic EAV4/EAV4+ locking system. In addition, routings for the motor housing are required as indicated in the following diagrams.



Notice: After the door elements have been installed, an initial functional check should be carried out on site in the presence of the client or his representative and a visual/functional acceptance report should be created.

The cables included in the scope of services should be laid at this point in time to the intended transfer point (e.g. junction box). They should be protected from damage and from other trades (plaster, drywall, ...) for the subsequent construction period.

Loose/bundled cables hanging freely should be avoided.

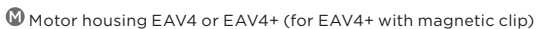
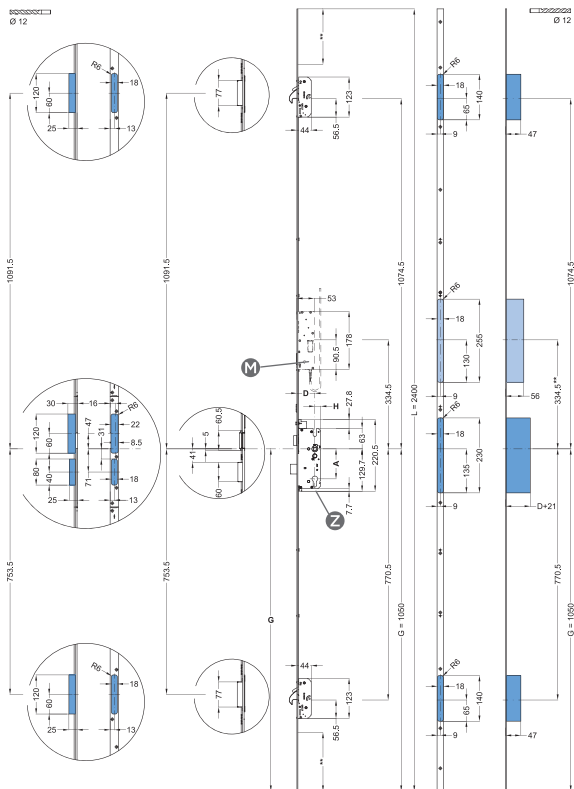
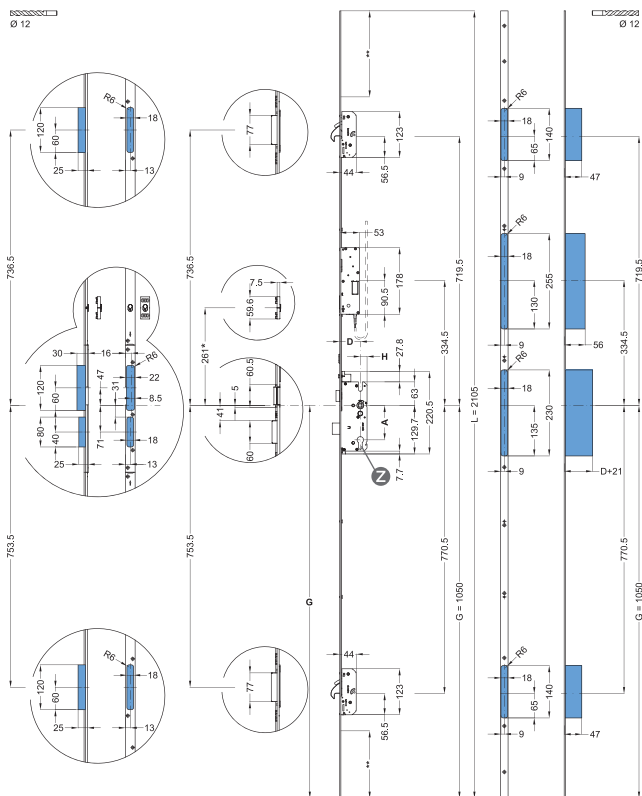


Figure 3.1-1: Example dimensions for locking T-AV4D F2060 ..., Version 60 for standard entrance doors (Recommended sash rebate height: 1875 to 2230 mm)



M

Figure 3.1-3: Example dimensions for locking T-AV4D F2069 ..., Version 69 for tall doors (Recommended sash rebate height: 2230 to 2400 mm)

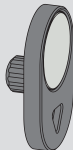
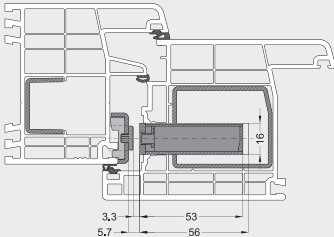

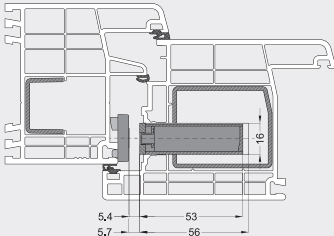



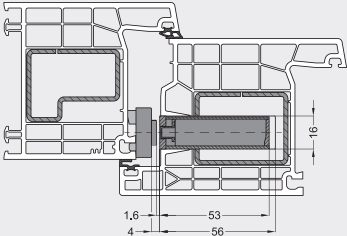

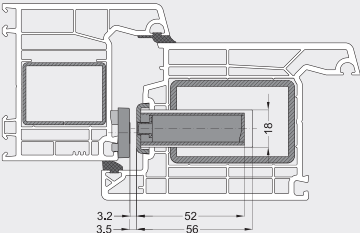

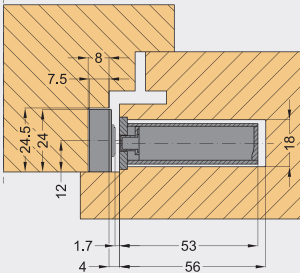
Description	Installation situation
<p>Situation hook AV4D</p>	
<p>Situation magnetic trigger</p>	
<p>Situation latch with daytime latch TaFa</p>	


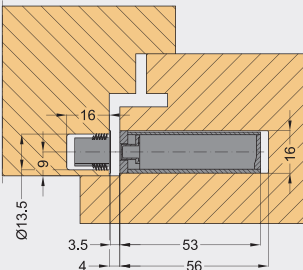

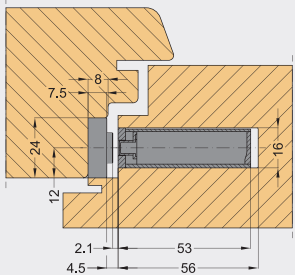


Notice: The magnetic clip must generally be ordered separately. For single keeps, the magnetic clip with keep (e.g. T-MAGNETCLIP 1,0 EAV4+/BM+ SB U24X5,5 GR or T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR) must be used.

The door status (open/closed) is checked by the magnetic clip and a sensor in the motor housing and after that automatic locking of the door is triggered. Installation and adjustment are carried out as shown in Figure 3.1-4.

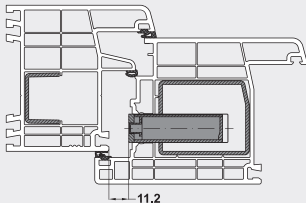
Description	Variants	Installation situations
Application of extension keep rail with magnetic clip/motor housing in PVC-U profile		
Application of single keep with magnetic clip/motor housing in PVC-U profile		

Description	Variants	Installation situations
Application of single keep with magnetic clip/motor housing in PVC-U profile		
Application of single keep with magnetic clip/motor housing in PVC-U profile		
Application of wood 4 mm with single keep with magnetic clip/motor housing in timber profile		

Description	Variants	Installation situations
<p>Application of wood 4 mm with single keep with magnetic bush/motor housing in timber profile</p>		
<p>Application of wood 11/12 mm (standard rebate 24 x 8 mm) with single keep with magnetic clip/motor housing in timber profile</p>		

Use of magnetic clip for single keeps

**Definition of residual
airgap for single
keeps:
Distance between
frame and upper edge
of STV faceplate for
PVC-U/aluminium**



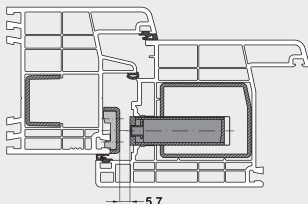
Residual airgap

Explanation

< 6,7 mm	EAV4+ /Magnetic clip not recommended because airgap is too small
> 6,7 - 7,5 mm	T-Magnetclip 1,0 EAV4+/BM+ SB U24x5,5 GR (only for aluminium and not for PVC-U)
> 7,5 - 11,0 mm	T-Magnetclip 1,5 EAV4+/BM+ SB U24x5,5 GR (only for PVC-U, possibly for aluminium)
> 11,0 - 14,0 mm	T-Magnetclip 1,5 EAV4+/BM+ SB U24x7,5 GR, 6 mm triggering range
> 14,0 mm	Magnetic clip not possible → magnet no longer releases because airgap is too large

Use of magnetic clip for keep rails/extension keep rails

Definition of residual airgap for keep rails/extension keep rails:
distance between keep rail or extension keep rail and upper edge of STV faceplate for PVC-U/aluminium



Residual airgap

Explanation

$\leq 3,0 \text{ mm}$

Magnetic clip + keep rail not possible (may be possible without keep rail/with single keep and single magnetic clip)

$> 3,0 - 8,0 \text{ mm}$

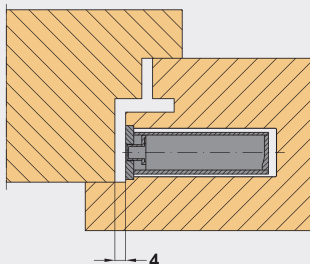
T-Magnetclip 1,5 EAV4+/BM+ GR,
6 mm triggering range

$> 8,0 \text{ mm}$

Magnetic clip not possible → magnet no longer releases because the airgap is too large

Use of magnetic clip for wooden profiles

**Definition of residual
airgap: Example of wood,
4 mm airgap**



3

Residual airgap

Explanation

Wood 4 mm airgap	T-MAGNETBUCHSE UMV/H4 KS GR (for drilling without keep)
Wood 4 mm airgap Wood 11 mm airgap	T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR, incl. cover cap for milling radius
Wood 11 mm	T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR
Wood flush / 4 mm residual airgap + single keep	T-MAGNETCLIP 1,5 EAV4+/BM+ SB U24X7,5 GR, incl. cover cap for milling radius
Wood, flush / 4 mm Residual airgap + keep rail	T-MAGNETCLIP 1,5 EAV4+/BM+ GR
Wood, special (keep rails)	check depending on keep rail

3.2.1 Adjustment of magnetic clip

3

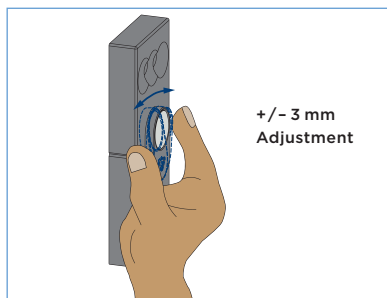


Figure 3.2.1-1:
Adjustment of magnetic
clip

The magnetic clip in the keep rail or in the single keep can be adjusted by turning into the direction of the groove position or vertically in order to prevent premature/late triggering or to counteract tolerances during door installation (e.g. sash setting).

3.3 Cable transition

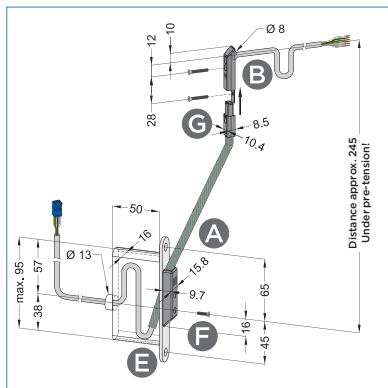
3.3.1 Cable transition T-KÜ-T1 ... (sash- & frame part)

Recommendation: It is recommended always that the cover plate **E** (depends on the faceplate and the material type of timber, PVCu/Vinyl or aluminum) conceals the routing for the required cable reserves to prevent possible cable damage. For hollow chamber/cable reserve in timber front doors, mill out pocket of approx. 50 mm x 95 mm.



Notice: This cable transition is qualified for doors with 18 mm fixed pivotal point and 180° opening. Do not bend the cable transition.

Installation sequence



- A** Sash part
- B** Frame part 1
- C** Frame part 2
- D** Cover strip
T-ABDECKUNG KÜ-T1
RT R8
- E** Cover plate
(F16 = L 126 mm R8;
F20 = L 130 mm R10;
F24 = L 134 mm square)
- F** Screw M3 x 12
(includet in delivery
from cover plate)
- G** Fitting screw
(includet in delivery
from cable transition
sash part T-KÜ-T1 FT)

Figure 3.3.1-1: T-KÜ-T1 FT with cover plate and frame part 1

Frame part 1 **B** (Figure 3.3.1-1):

- Drill a hole with a $\varnothing 8$ mm for cable through the door frame
- Pass the cable through the door frame (including cable reserves in frame!)
- Fasten the frame part 1 **B** with the fitting screw **G** $\varnothing 3 \times 20$ mm

Frame part 2 **C** (Figure 3.3.1-2):

- Drill a hole with a $\varnothing 13$ mm for cable/plug through the door frame
- Pass the cable with plug for frame power supply through the door frame (including cable reserves in frame!) use T-ABDECKUNG KÜ-T1 RT R8
- Fasten the frame part 2 **C** with the fitting screw **G** $\varnothing 3 \times 20$ mm

Sash part **A** with cover plate **E** (Figure 3.3.1-1):

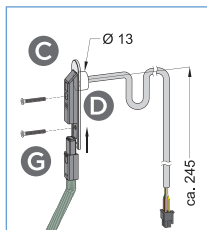
- Mill slotted hole max. 95 mm and approx. 50 mm deep

Sash part **A** without cover plate (Figure 3.3.1-3):

- Drill a hole $2 \times \varnothing 13$ mm resp. oblong hole through the euro groove (approx. 245 mm vertical under the frame part drill hole of $\varnothing 8$ mm, depends on the profile/hinge rotation point) and for screw **F** pre-drill ($\varnothing 2,5$ mm)



Caution! The drillings must be burr-free. The spring must be kept under a slight pre-tension even with the door being closed (approx. 10 mm).



- Attach necessary drillings ($\varnothing 13$ mm) in the sash (e.g. in the glazing chamber)
- Pass the cable with the plug for the motor through the door sash
- Insert the end of the spring into the sash part **A** into the drilling/routing into the door sash/cover plate are.
- And/or alternatively to the cover plate **E** with screw M3 x 12 mm **F** fasten the sash part **A** with fitting screw $\varnothing 3 \times 20$ mm in the fitting groove.

Figure 3.3.1-2: Detail frame part 2

Cover plate for T-KÜ-T1 FT

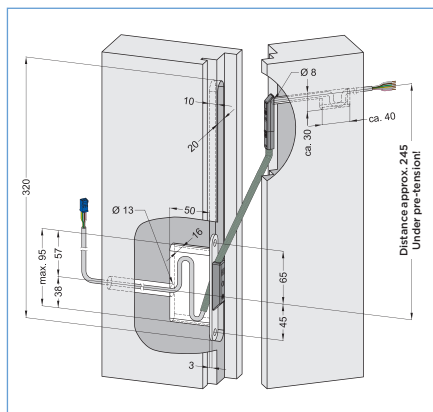


Figure 3.3.1-4: Routing dimensions for T-KÜ-T1 FT + RT and cover plate F20 in timber

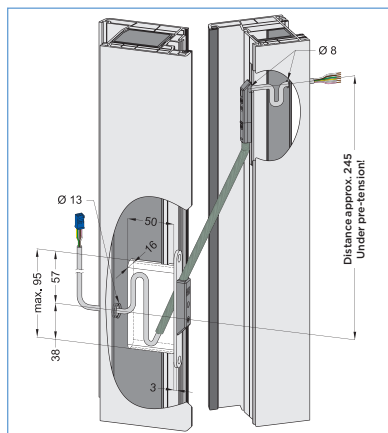


Figure 3.3.1-5: Routing dimensions for T-KÜ-T1 FT + RT and cover plate F16 in PVC

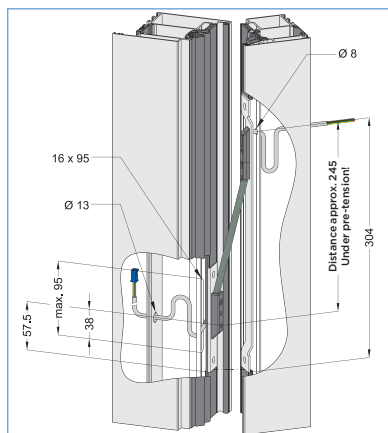


Figure 3.3.1-6: Routing dimensions for T-KÜ-T1 FT + RT and cover plate F24 in aluminum

3.3.2 Assembly of blue motor housing plug

3

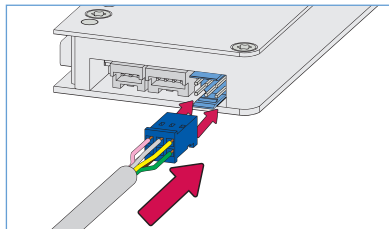


Figure 3.3.2-1:
Assembly of 6-pin, blue
motor housing plug, 2 x
guide lugs in correct
position of the socket

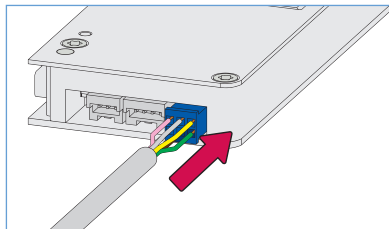


Figure 3.3.2-2:
Insert 6-pin, blue motor
housing plug completely
and smoothly

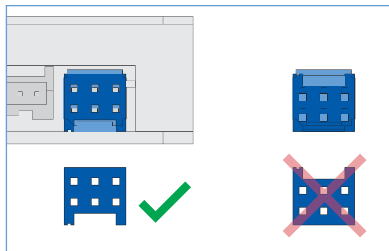


Figure 3.3.2-3:
Install the 6-pin, blue
motor housing plug in
the correct position
(not turned 180°!)

Cable assignment blue motor housing plug

Wire	Cable assignment when used with blueMatic EAV4/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

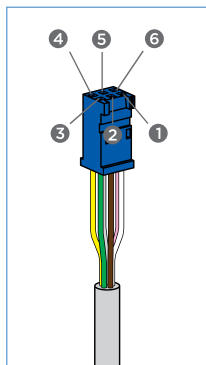


Figure 3.3.2-4: Cable assignment when used with blueMatic EAV4/EAV4+

3.3.3 Cable transition T-HT KÜ M1188

Installation sequence

3

- Cut on oblong hole in the door frame according to specifications (refer to figures 3.3.3-3/3.3.3-4)
- Run the cable through the door frame



Attention! Leave some spare cable (loop) directly behind the cable transition to allow for the spring to expand!

- insert and screw cable transition (with cable transition fitting piece and radius shimming plate)



Notice: The cable transition fitting piece simplifies installation in timber doors. It saves plodding with the chisel. This cable transition is qualified for doors with 18 mm fixed pivotal point and 180° opening. Do not bend the cable transition and do not undershoot the bending radius of Ø 25 mm.

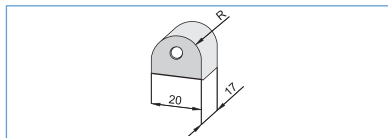


Figure 3.3.3-1: Cable transition fitting piece

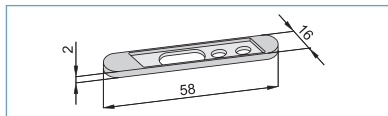


Figure 3.3.3-2: Radius shimming plate

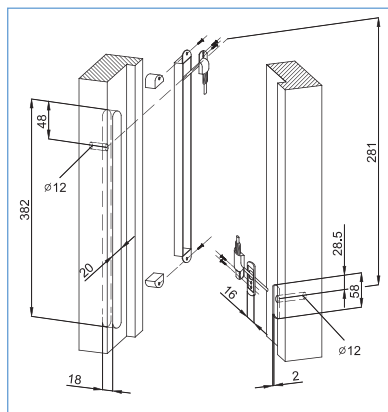


Figure 3.3.3-3: Fitting in
timber

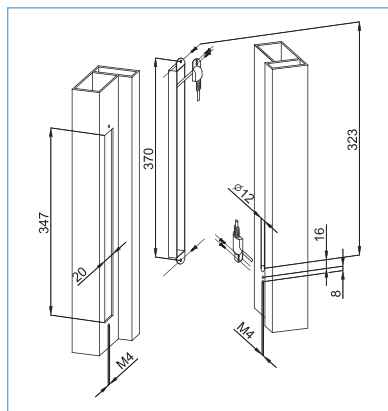


Figure 3.3.3-4:
Fitting in
PVC/aluminium

3.4 Installations

If all necessary components are installed on the door (EAV4 or EAV4+ locking system, frame parts, magnetic clip (optional for EAV4+), power supply unit) and the operating voltage 24V DC is applied (start-up), can electrically unlocked. Acoustic confirmation (beeps) only for EAV4+, not for EAV4 Standard.

There is no action when the door is open.



Warning! The installation of electrical equipment requires expertise, thus such work should only be carried out by an electrician. Generally assemble and install always only with the power off!

Warning! IMPORTANT ADVICE!

To avoid blocking the locking mechanism, no key or key ring must be inserted in the locking cylinder!



Notice: First the door has to close easily, then you can test electrical performance!

3.4.1 General connection diagram

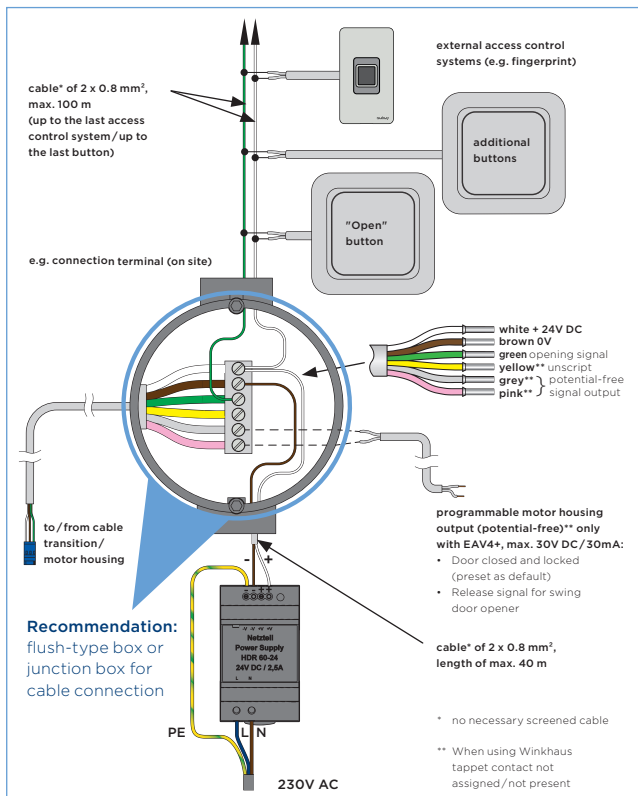


Figure 3.4.1-1: General connection diagram with DIN rail power supply and cable transition

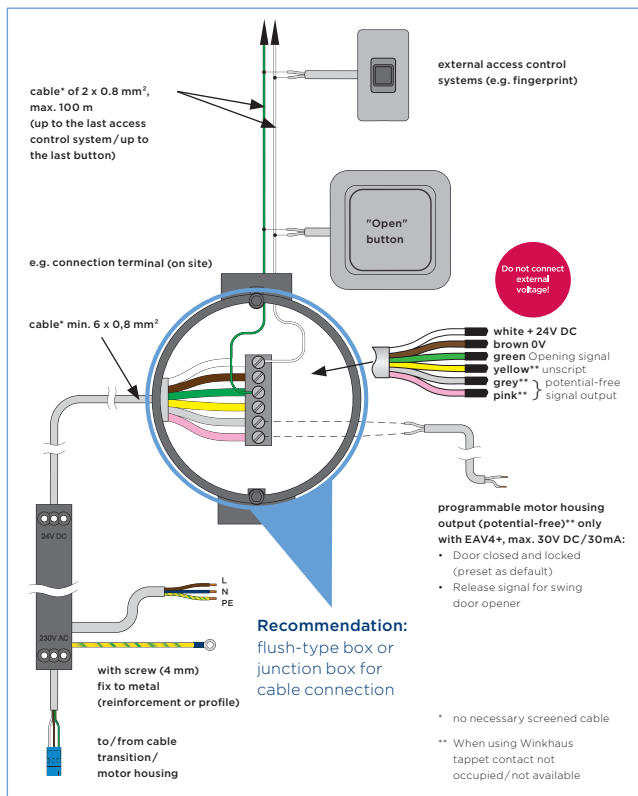


Figure 3.4.1-2: General connection diagram with frame power supply and cable transition

3.5 Connection of swing door drive/swing door opener

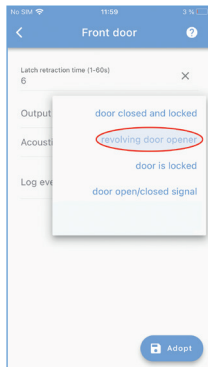
3.5.1 Connection via programmable output

The swing door opener is connected via the programmable output (grey + pink wires).

- Output must be set to swing door opener signal via the app.
- Standard signal: door closed and locked, which is then no longer usable.
- Output emits a signal after complete unlocking (contact closed for 1 second), which starts the swing door opener.

Use of programmable output only possible with EAV4+:

- 6-pole Winkhaus cable transition or cable or other cable transitions (min. 6 wires)
- not possible with Winkhaus tappet contact (3 wires)



Notice: If the programmable output is used for controlling the swing door opener, all other application options are omitted (e.g. output of combined signal "door closed and locked" + "door is locked")

3.5.2 Connection via time control of swing door opener

Alternatively, the motorised Winkhaus locking system can be controlled by a time control function on the swing door opener, which sends the external opening signal to the locking system and then starts the swing door opener with a time delay. For details, see specific description of swing door opener.

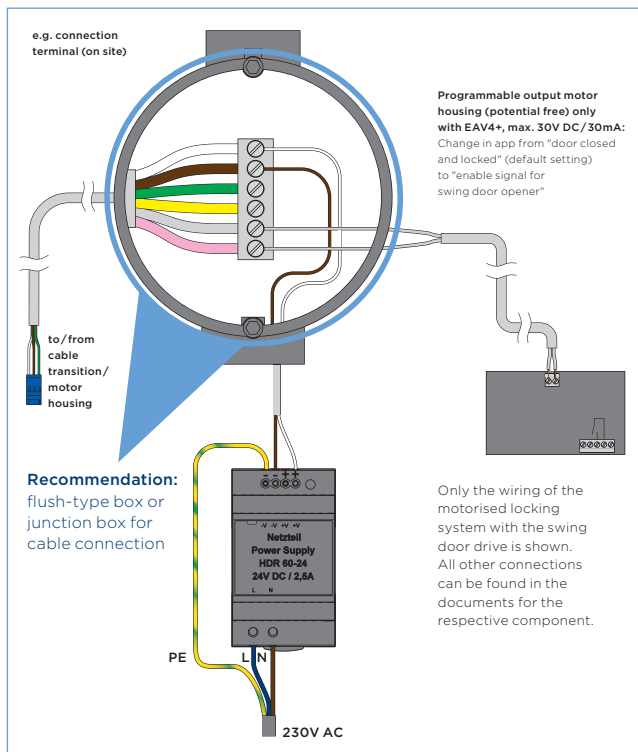


Figure 3.5.2-1: General connection diagram with swing door drive

3.6 Non Winkhaus access control system (ACS)

3.6.1 Non Winkhaus access control system ACS general (frame- and sash side)

If the blueMatic EAV4/EAV4+ automatic locking system is used for other access control systems, note the following points:

- Is recommended the Winkhaus power supply T-HT NETZTEIL 24V DC/2,5A (Part-no. 2126934) or the frame power supply T-NETZTEILRAHM. 24V DC 1,5A (2,5A/2S) BM+/EAV4 (Part-no. 5083482) to use.
- For details on the voltage supply see also chapter 2, power supply **6**
- Ensure that the decontrol signal takes place over a potential-free contact (Normally open contact, at least 0.3s) when using non-Winkhaus access control systems.
- If required use a coupling relay for realizing this.

3.6.2 Non Winkhaus access control system ACS fingerprint (sash side)

Prerequisites for installation

- The applied access control system have to be installed into the door sash.



Notice: The indicated access control systems are based on the current state of knowledge of current models, which are however subject to regular development. In addition to finger scanners, there are other variants depending on the model (e.g. code keypads, etc.). They are often subject to analogue wiring – to be checked with the specific access control model and the relevant documents.

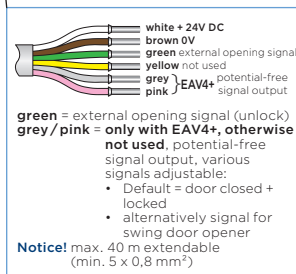
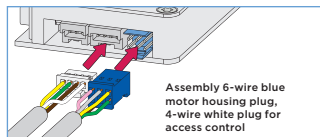
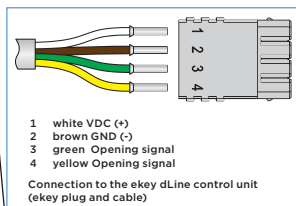
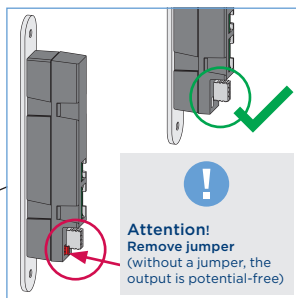
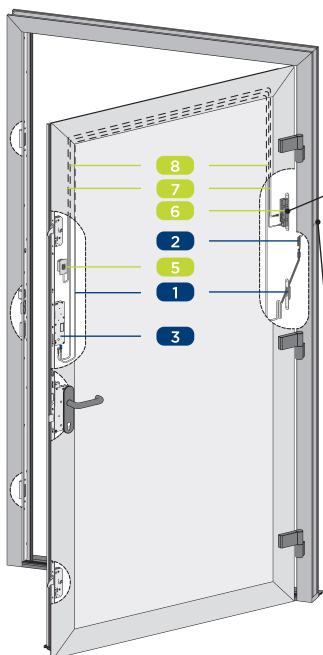


Figure 3.6.2-1: Wiring blueMatic EAV4/EAV4+ with "Fingerprint ekey dLine"
(sash side)

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate/ material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT cable 4M , for external power supply "mounting on DIN rail"	5040503
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
5 to 8 ekey dLine set TB Winkhaus EAV3/EAV4/EAV4+/BM+	ekey 201712
ekey dLine set TG Winkhaus EAV3/EAV4/EAV4+/BM+	201711
5 ekey dLine fingerprint including cover	
6 ekey dLine controller including mounting plate	
7 ekey dLine cable FP	
8 ekey dLine cable MT 3,5 m Winkhaus EAV3/EAV4/EAV4+/BM+	

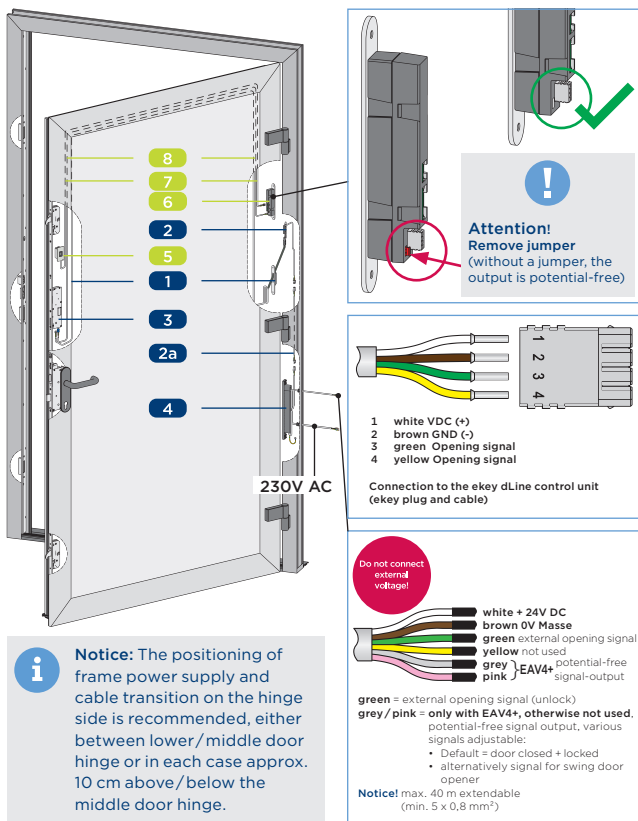
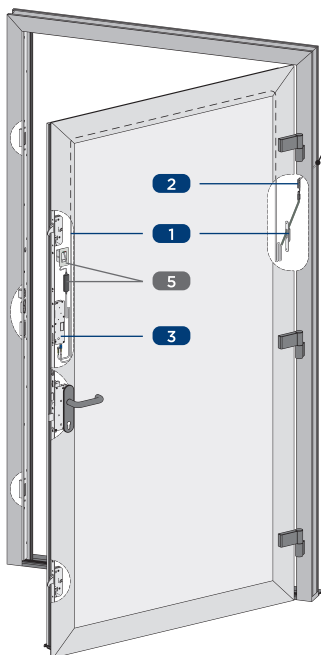


Figure 3.6.2-2: Wiring blueMatic EAV4/EAV4+ with "Fingerprint ekey dLine and frame power supply" (sash side)

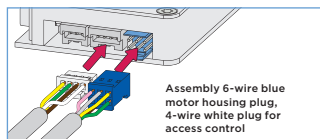
Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate/ material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT KABEL 0,6M RNT , for frame power supply	5040504
2a optional extension cable T-LB VERL.KABEL 0,25M RNT ZU KÜ-T1	5066122
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
4 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
5 to 8 ekey dLine set TB Winkhaus EAV3/EAV4/EAV4+/BM+	ekey 201712
ekey dLine set TG Winkhaus EAV3/EAV4/EAV4+/BM+	201711
5 ekey dLine fingerprint including cover	
6 ekey dLine controller including mounting plate	
7 ekey dLine cable FP	
8 ekey dLine cable MT 3,5 m Winkhaus EAV3/EAV4/EAV4+/BM+	



green = external opening signal (unlock)
grey / pink = **only with EAV4+, otherwise not used**, potential-free signal output, various signals adjustable:

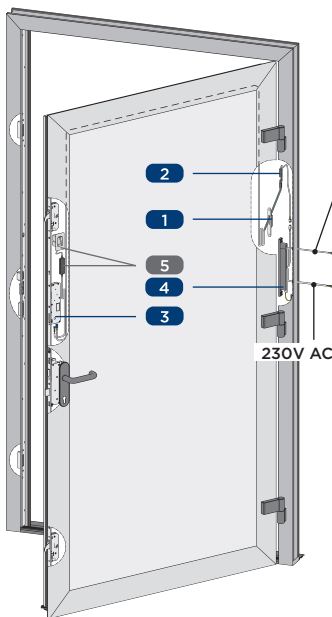
- Default = door closed + locked
- alternatively signal for swing door opener

Notice! max. 40 m extendable
 (min. 5 x 0,8 mm²)



Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate / material type), plug-in alternatively cable transition T-KÜ-T1 FT 3,5M alternatively cable transition T-LE KÜ-T1 FT 4,5M	5040501 5040505 5071245
2 Frame part cable transition T-KÜ-T1 RT cable 4M , for external power supply "mounting on DIN rail"	5040503
3 T-MOTORKASTEN EAV4 (24V) BL T-MOTORKASTEN EAV4+ (24V) BL (with app control) for retrofitting mechanical locking systems AV4D, standard	5096286 5096287
5 Access control system BioKey® INSIDE - FINGER-PRINT - BASIC FUNCTION alternatively BioKey® INSIDE - FINGERPRINT WITH APP MANAGEMENT	IDENCOM 680 805 692 815 - App

Figure 3.6.2-3: Wiring blueMatic EAV4/EAV4+ with "*Fingerprint IDENCOM Biokey INSIDE, Mini X*" (sash side)



Do not connect
external
voltage!

white + 24V DC
brown 0V Masse
green external opening signal
yellow not used
grey } EAV4+ potential-free
pink } signal-output

green = external opening signal (unlock)
grey / pink = **only with EAV4+, otherwise not used.**
potential-free signal output, various
signals adjustable:
• Default = door closed + locked
• alternatively signal for swing door
opener

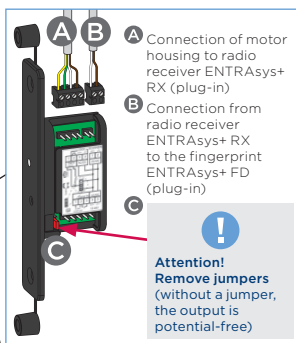
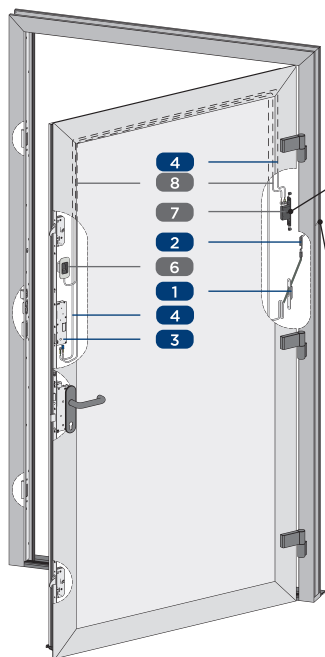
Notice! max. 40 m extendable (min. 5 x 0,8 mm²)



Notice: The positioning of
frame power supply and
cable transition on the hinge
side is recommended, either
between lower/middle door
hinge or in each case approx.
10 cm above/below the
middle door hinge.

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate / material type), plug-in alternatively cable transition T-KÜ-T1 FT 3,5M	5040501 5040505
2 Frame part cable transition T-KÜ-T1 RT KABEL 0,6M RNT, for frame power supply	5071245 5040504
3 T-MOTORKASTEN EAV4 (24V) BL T-MOTORKASTEN EAV4+ (24V) BL (with app control) for retrofitting mechanical locking systems AV4D, standard	5096286 5096287
4 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
5 Access control system BioKey® INSIDE - FINGER- PRINT - BASIC FUNCTION alternatively BioKey® INSI- DE - FINGERPRINT WITH APP MANAGEMENT	IDENCOM 680 805 692 815 - App

Figure 3.6.2-4: Wiring blueMatic EAV4/EAV4+ with **"Fingerprint IDENCOM Biokey INSIDE, Mini X and frame power supply"** (sash side)



green = external opening signal (unlock)
grey / pink = **only with EAV4+, otherwise not used**, potential-free signal output, various signals adjustable:

- Default = door closed + locked
- alternatively signal for swing door opener

Notice! max. 40 m extendable
(min. 5 x 0,8 mm²)

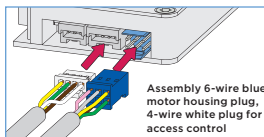


Figure 3.6.2-5: Wiring blueMatic EAV4/EAV4+ with "*Fingerprint SOMMER ENTRAsys+*" (sash side)

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate/ material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT cable 4M , for external power supply "mounting on DIN rail"	5040503
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
4 T-ANSCHLUSSKABEL BM+/EAV4 SOMMER 3M , Length 3 m (with 4-pole plug for radio receiver ENTRAsys+ RX)	5093567
alternatively T-ANSCHLUSSKABEL BM+/EAV4 SOMMER 6M , Length 6 m (with 4-pole plug for radio receiver ENTRAsys+ RX)	5093568
6 to 8 Set SOMMER	SOMMER
6 Fingerprint ENTRAsys+ FD	
7 Radio receiver ENTRAsys+ RX	
8 Connection cable from radio receiver to fingerprint ENTRAsys+ FD	

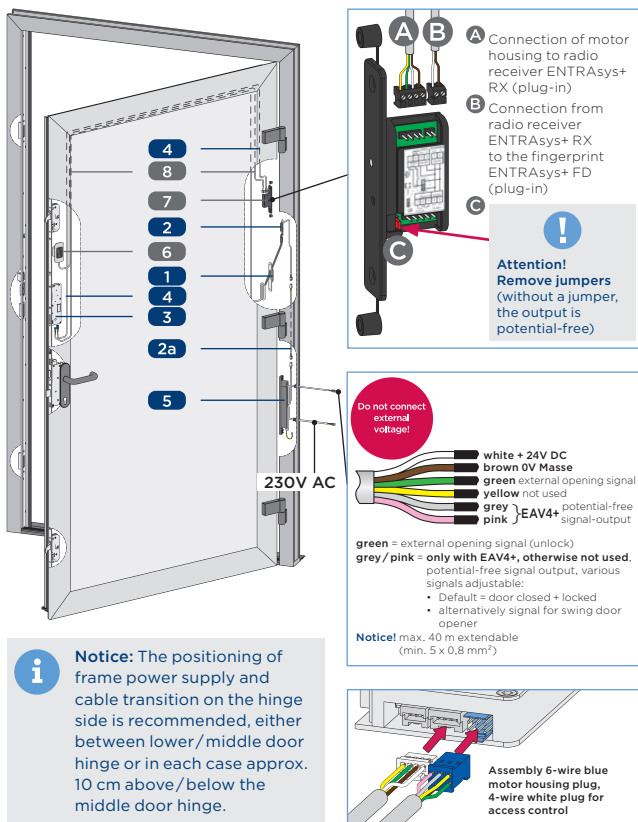
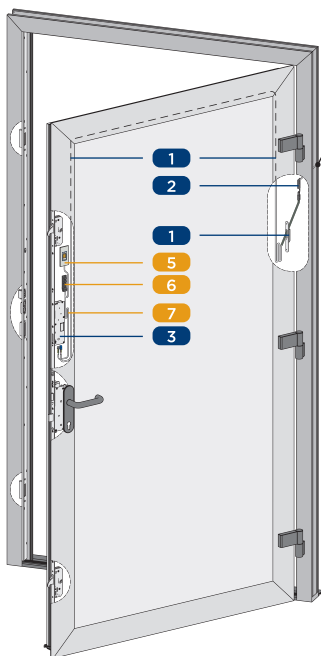


Figure 3.6.2-6: Wiring blueMatic EAV4/EAV4+ with "Fingerpint SOMMER ENTRAsys+ and frame power supply" (sash side)

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate/ material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT KABEL 0,6M RNT , for frame power supply	5040504
2a optional extension cable T-LB VERL.KABEL 0,25M RNT ZU KÜ-T1	5066122
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
4 T-ANSCHLUSSKABEL BM+/EAV4 SOMMER 3M , Length 3 m (with 4-pole plug for radio receiver ENTRAsys+ RX)	5093567
alternatively T-ANSCHLUSSKABEL BM+/EAV4 SOMMER 6M , Length 6 m (with 4-pole plug for radio receiver ENTRAsys+ RX)	5093568
5 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
6 to 8 Set SOMMER	SOMMER
6 Fingerprint ENTRAsys+ FD	
7 Radio receiver ENTRAsys+ RX	
8 Connection cable from radio receiver to fingerprint ENTRAsys+ FD	

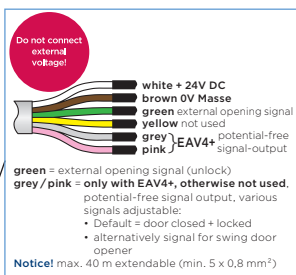
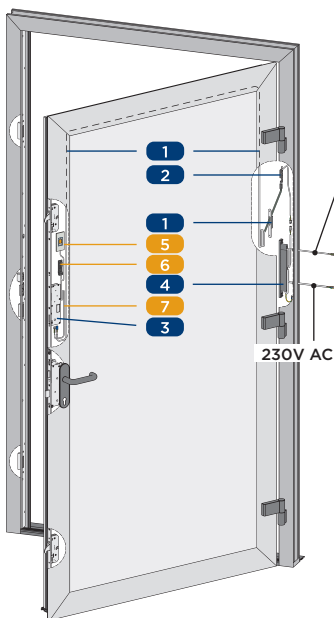


green = external opening signal (unlock)
grey / pink = **only with EAV4+, otherwise not used**, potential-free signal output, various signals adjustable:
 • Default = door closed + locked
 • alternatively signal for swing door opener

Notice! max. 40 m extendable (min. 5 x 0,8 mm²)

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate / material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT cable 4M , for external power supply "mounting on DIN rail"	5040503
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control) for retrofitting mechanical locking systems AV4D, standard	5096287
5 to 7	Navkom
Order directly via Navkom	
5 Bioreader Navkom Fingerprint in the door sash / silver or black	R7-BR-S oder BR-B
6 Control unit in shrink tube	R7-CU-BBX
7 Cable connection to WH motor housing	C-BBX-0080-W SH

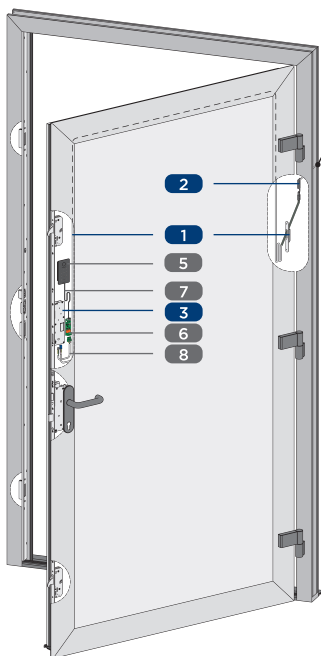
Figure 3.6.2-7: Wiring blueMatic EAV4/EAV4+ with "**Fingerprint Navkom Bioreader**" here control unit on the lock side (similar also for Biopass/Biohandle/ touchpad/module...) (sash side)



Notice: The positioning of frame power supply and cable transition on the hinge side is recommended, either between lower/middle door hinge or in each case approx. 10 cm above/below the middle door hinge.

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate / material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT KABEL 0,6M RNT , for frame power supply	5040504
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control) for retrofitting mechanical locking systems AV4D, standard	5096287
4 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
5 to 7 Order directly via Navkom	Navkom
5 Bioreader Navkom Fingerprint in the door sash / silver or black	R7-BR-S oder BR-B
6 Control unit in shrink tube	R7-CU-BBX
7 Cable connection to WH motor housing	C-BBX-0080-W SH

Figure 3.6.2-8: Wiring blueMatic EAV4/EAV4+ with **"Fingerprint Navkom Bioreader and frame power supply"** here control unit on the lock side (similar also for Biopass/Biohandle/ touchpad/module...) (sash side)



green = external opening signal (unlock)
grey / pink = **only with EAV4+, otherwise not used**, potential-free signal output, various signals adjustable:
 • Default = door closed + locked
 • alternatively signal for swing door opener

Notice! max. 40 m extendable
 (min. 5 x 0,8 mm²)

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate / material type), plug-in alternatively cable transition T-KÜ-T1 FT 3,5M alternatively cable transition T-LE KÜ-T1 FT 4,5M	5040501 5040505 5071245
2 Frame part cable transition T-KÜ-T1 RT cable 4M , for external power supply "mounting on DIN rail"	5040503
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control) for retrofitting mechanical locking systems AV4D, standard	5096287
5 to 8	SOREX
Order directly via SOREX	
5 Ununlock external unit (keypad) Opening options: fingerprint, code, RFID, mobile app	
6 Ununlock indoor unit (relay unit)	
7 1.2 m connection cable for connecting the indoor and outdoor units	
8 Adapter cable for connecting SOREX Unilock with WH EAV4/EAV4+ / BM+	ACUNI-WHA

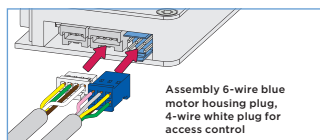
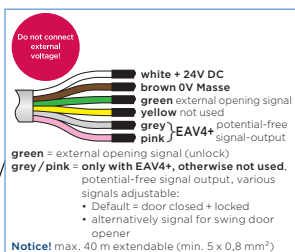
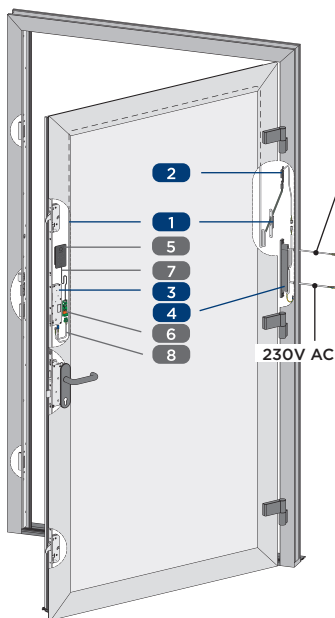


Figure 3.6.2-9: Wiring blueMatic EAV4/EAV4+ with sash side access control "**SOREX Unilock WiFi 2.0**" (Opening options: fingerprint, code, RFID, mobile app) (sash side)



Notice: The positioning of frame power supply and cable transition on the hinge side is recommended, either between lower/middle door hinge or in each case approx. 10 cm above/below the middle door hinge.

Description	Part-no.
1 Cable transition T-KÜ-T1 FT 2M plus cover plate (depends on the faceplate/material type), plug-in	5040501
alternatively cable transition T-KÜ-T1 FT 3,5M	5040505
alternatively cable transition T-LE KÜ-T1 FT 4,5M	5071245
2 Frame part cable transition T-KÜ-T1 RT KABEL 0,6M RNT, for frame power supply	5040504
3 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
4 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
5 to 8	SOREX
Order directly via SOREX	
5 Unlock external unit (keypad) Opening options: fingerprint, code, RFID, mobile app	
6 Unlock indoor unit (relay unit)	
7 1.2 m connection cable for connecting the indoor and outdoor units	
8 Adapter cable for connecting SOREX Unlock with WH EAV4/EAV4+/BM+	ACUNI-WHA

Figure 3.6.2-10: Wiring blueMatic EAV4/EAV4+ with sash side access control **"SOREX Unlock WiFi 2.0 and frame power supply"** (Opening options: fingerprint, code, RFID, mobile app) (sash side)

3.6.3 Non Winkhaus access control system with tappet contact and fingerprint

Prerequisites for installation

- The applied access control system have to be installed into the door sash.



Notice: Further information and details can be found in the blueMatic EAV tappet contact operating instructions.

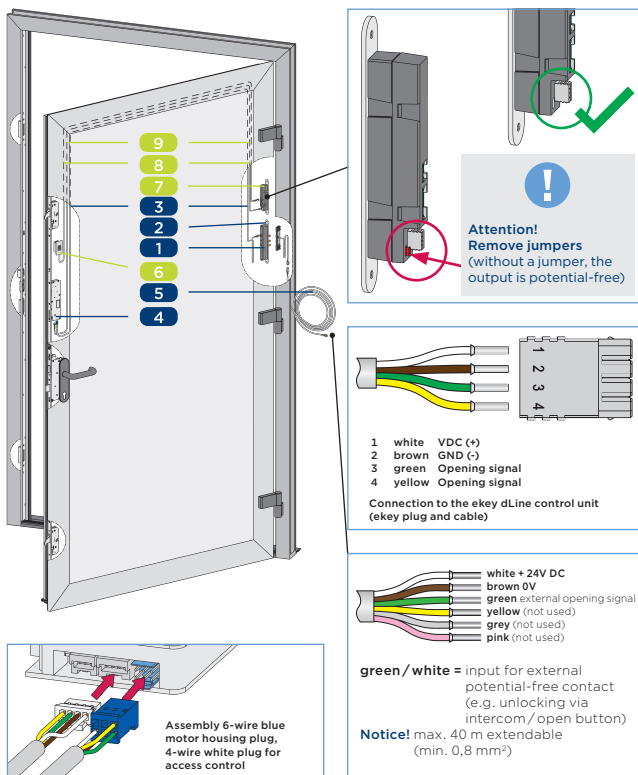
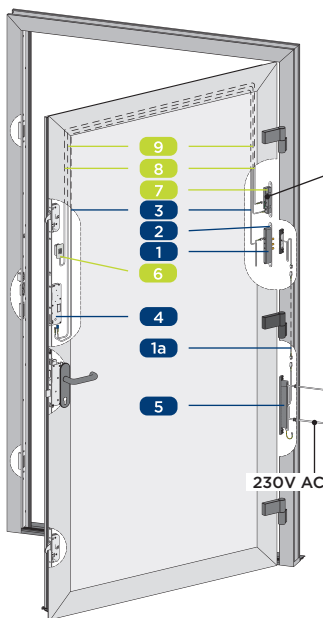


Figure 3.6.3-1: Wiring blueMatic EAV4/EAV4+ with tappet contact and
"Fingerprint ekey dLine" (sash side)

Description	Part-no.
1 Set tappet contact T-SET STÖBEL O.STULP + SB U24X7,5 SW including frame part	5035741
2 Face plate for sash part tappet contact is profile-dependent	
T-STÖBEL STULP FLÜGEL F16 R8 MC	5039912
T-STÖBEL STULP FLÜGEL F20 R10 MC	5039914
T-STÖBEL STULP FLÜGEL F24 MC	5039917
T-STÖBEL STULP FLÜGEL F24 SW	5040145
T-STÖBEL STULP FLÜGEL U22X6 MC	5039918
T-STÖBEL STULP FLÜGEL U24X6 MC	5039919
3 T-KABEL STÖBEL-MOTOR FL 2M to connect the tappet contact to the motor housing alternatively T-KABEL STÖBEL-MOTOR FL 3,5M to connect the tappet contact to the motor housing	5040148 5040149
4 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
5 T-VERLÄNG. KABEL 4M STK/KÜ M. BUCHSE, for connection to external power supply „DIN rail“	5040237
6 to 9 ekey dLine set TB Winkhaus EAV3/EAV4/EAV4+/BM+	ekey 201712
ekey dLine set TG Winkhaus EAV3/EAV4/EAV4+/BM+	201711
6 ekey dLine fingerprint including cover	
7 ekey dLine controller including mounting plate	
8 ekey dLine cable FP	
9 ekey dLine cable MT 3,5 m Winkhaus EAV3/ EAV4/EAV4+/BM+	



Notice: The necessary spacers (plastic profile) for the tappet contact frame part and other accessories are included in the blueMatic EAV tappet contact installation, operating and maintenance instructions.



Notice: The positioning of frame power supply and cable transition on the hinge side is recommended, either between lower/middle door hinge or in each case approx. 10 cm above/below the middle door hinge.

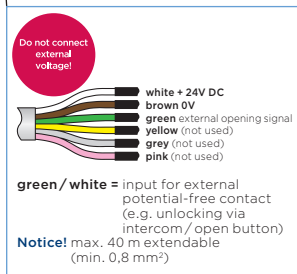
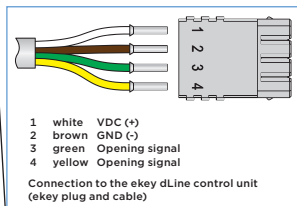
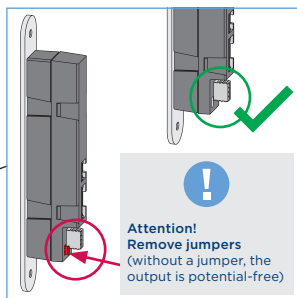


Figure 3.6.3-2: Wiring blueMatic EAV4/EAV4+ with tappet contact and "Fingerprint ekey dLine and frame power supply" (sash side)

Description	Part-no.
1 Set tappet contact T-SET STÖBEL O.STULP + SB U24X7,5 SW including frame part	5035741
1a optional extension cable T-LB VERL.KABEL 0,25M RNT ZU KÜ-T1	5066122
2 Face plate for sash part tappet contact is profile-dependent	
T-STÖBEL STULP FLÜGEL F16 R8 MC	5039912
T-STÖBEL STULP FLÜGEL F20 R10 MC	5039914
T-STÖBEL STULP FLÜGEL F24 MC	5039917
T-STÖBEL STULP FLÜGEL F24 SW	5040145
T-STÖBEL STULP FLÜGEL U22X6 MC	5039918
T-STÖBEL STULP FLÜGEL U24X6 MC	5039919
3 T-KABEL STÖBEL-MOTOR FL 2M to connect the tappet contact to the motor housing	5040148
alternatively T-KABEL STÖBEL-MOTOR FL 3,5M to connect the tappet contact to the motor housing	5040149
4 T-MOTORKASTEN EAV4 (24V) BL	5096286
T-MOTORKASTEN EAV4+ (24V) BL (with app control)	5096287
for retrofitting mechanical locking systems AV4D, standard	
5 Frame power supply T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4	5083482
6 to 9 ekey dLine set TB Winkhaus EAV3/EAV4/EAV4+/BM+	ekey 201712
ekey dLine set TG Winkhaus EAV3/EAV4/EAV4+/BM+	201711
6 ekey dLine fingerprint including cover	
7 ekey dLine controller including mounting plate	
8 ekey dLine cable FP	
9 ekey dLine cable MT 3,5 m Winkhaus EAV3/ EAV4/EAV4+/BM+	



Notice: The necessary spacers (plastic profile) for the tappet contact frame part and other accessories are included in the blueMatic EAV tappet contact installation, operating and maintenance instructions.

3.7 Accessories T-LED EAV4+/BM+ STATUS

3

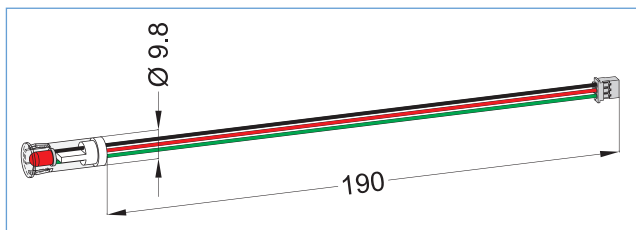


Figure 3.7-1: LED for optional Plug'n'Play connection to motor housing BM+ or EAV4+

Function LED, unlock

- Indicates to the user how long the motor needs, e.g. for unlocking, or when the door can be opened (mounted on the outside of the door, e.g. for environments with a high noise level)
- **LED Red:** Motorized unlocking procedure until the latch Latch retraction, door sash cannot be opened
- **LED Green:** Unlocking completed successfully, door sash can be opened

Installation

- Drill a hole in the sash (on the outside)
- Drilling diameter LED: 10 mm
- LED position: approx. 50 ... 100 mm below the bottom edge of the motor housing

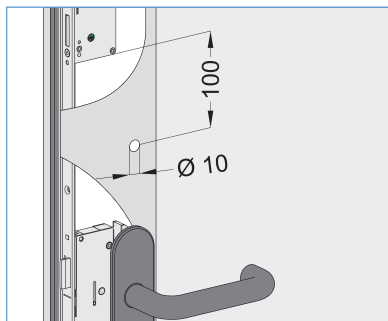
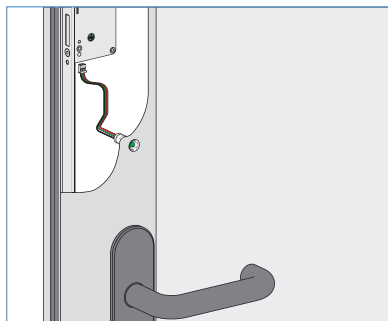


Figure 3.7-2: LED location hole



- Lead the LED with plug (for motor housing), cable and socket from the outside through the 10 mm hole in the door sash
- Plug in the connector on the motor housing (below, towards the faceplate).
- Cable length approx. 20 cm

Figure 3.7-3: LED position installed



Notice:

The green LED goes out after 2s or after opening the sash.

4 Operation



Notice: EAV4 and EAV4+ can be operated with a permanent opening signal if required, for example to make the door in a commercial property accessible daily from 08:00 to 18:00. However, it is important to ensure that the automatic locking of the door can no longer be guaranteed in the event of a power failure.

4.1 Function day/night

The day/night function prevents locking in day service mode – to enable easy keyless access to the door (e.g. for loading/unloading a vehicle standing in front of the door).

Daytime release function

- Temporary release of the door via mechanically adjustable daytime latch TaFa, operation similar to an electric strike with daytime release.

4.2 Locking and unlocking

Closing/locking

- When the door is pulled closed, automatic mechanical locking takes place by means of 2 solid hooks (secured against being pushed back) and the latch in the main lock housing.
- After proper locking, a beep sounds as standard (only for EAV4+)
- Additional protection is provided by manual locking, in which the bolt in the main lock housing is extended by turning the key (1 x 360°).



Notice: The main bolt must always be unlocked manually using the key.

Opening/unlocking the door from the inside

Possibilities:

- via the button
- via the intercom (floating contact button!)
- via the handle and the key (also possible in the event of a power failure)



Notice:

For EAV4+ or in the doorControl app, these signal tones can be set, for example:

- all signals deactivated
- all signals activated
- only "unlocked" signal active
- only "locked" signal active
- only "error" signal active

Opening/unlocking the door from the outside

- The door is unlocked from the outside via the doorControl App (only for EAV4+), or connected access control systems (e.g. fingerprint) or with the key.
- If the door is not opened after motorised/mechanical unlocking and remains in the "zero position", automatic locking takes place again after the latch retraction period (default setting: 2 seconds).



Notice: The latch retraction time can be set in the doorControl App from 1 second to max. 60 seconds.



Notice: In the event of a voltage breakdown and locking in the initial position, the door can be locked and unlocked using the key or it can be unlocked via the handle on the inside of the door!

5 App doorControl

The Winkhaus doorControl app is designed to administer various users and groups, including time profiles, with regard to their authorisation and to enable unlocking via smartphone. Various locking settings and logging via app are also possible. The app is available for iOS and Android in German, English, Spanish, French, Dutch and other languages.

5

5.1 Initialization

Install the electronic locking system EAV4+ according to the specifications in Chapters 1 – 4 and establish the electrical connection. The locking system is then ready to be taught and administered in the smartphone of the respective door owner, for instance.



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.

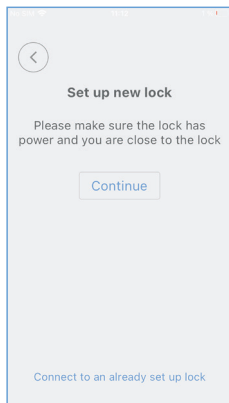
App home screen with selection options

- "Start" standard-mode



5.2 Set up a new lock

- Set up a new lock
- Connect to already set-up lock.



5.2.1 Scan QR code

- Directly on the lock
- or in operating instructions



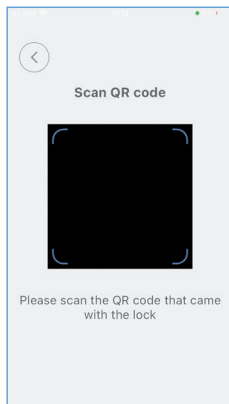
Notice: QR code:

- supplied as a sticker with Winkhaus operating instructions
- stuck on the motor housing



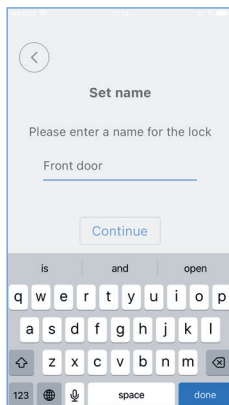
Attention!

The QR code must be passed on to end customers!



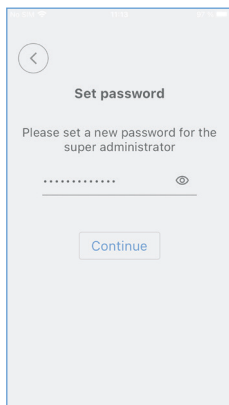
5.2.2 Specify designation

- Enter the name for the locking system.



5.2.3 Set password

- Set password for super administrator
- at least 8 characters, 1 uppercase letter, 1 special character



5.2.4 User rights management: Super administrator, administrator, user

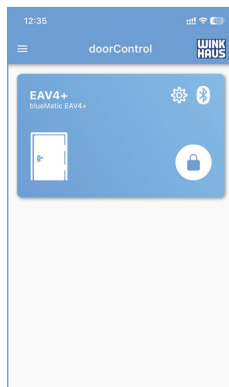
- **The super administrator is the person who teaches the lock in.**
- **Super administrators and administrators can use all the functions of the lock.**
 - Create, delete and block new administrators and users as well as groups
 - Access to parameters, events, WLAN, firmware, factory settings
- **Users: Locking and unlocking in the specified time frame, viewing access times and changing personal passwords**



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

5.2.5 Completion of "Set up new lock"

- The lock has successfully been set up.
- Up to 25 doors/locks can be taught in.
- Users, groups and associated time profiles must be created separately for each lock.



5.2.6 Lock control by users and admins

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




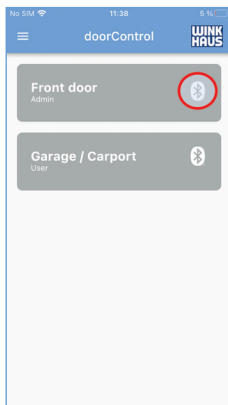
Notice: While an admin administers the lock via Bluetooth*, no user can access it.

- **WLAN:**
 - several users or admins possible
 - Several users/admins possible with "same login" (password/ID) (e.g. when using smartphone and tablet)

5.3 Using the app

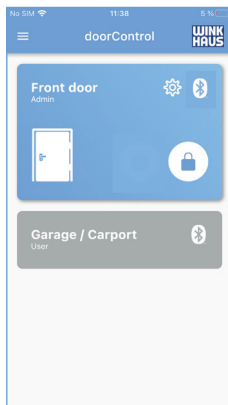
5.3.1 Unlocking

- Establish connection to entrance door via  Bluetooth® icon
 - Entrance door, grey background




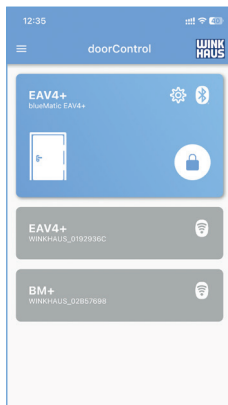
5


- Connection to entrance door has been successfully established
 - Entrance door, blue background



blueMatic EAV4+

- Establish a connection via the Bluetooth®
icon
- The lock can be operated completely
offline via Bluetooth®, if required.



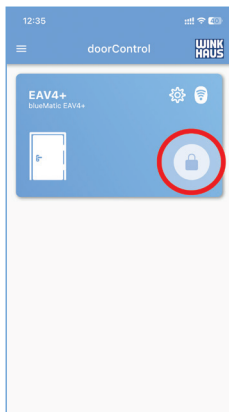
- As an alternative, establish a connection
via WLAN .
- Most stable connection is preferred and
automatically established if required.




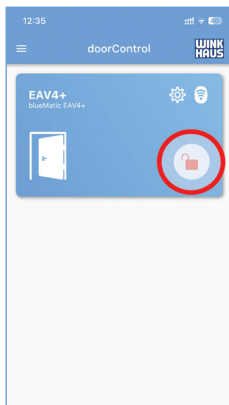
- Press "blue lock"  to open.

Tutorial doorControl - Unlock Door

<https://youtu.be/JhNEw3CRD1c>

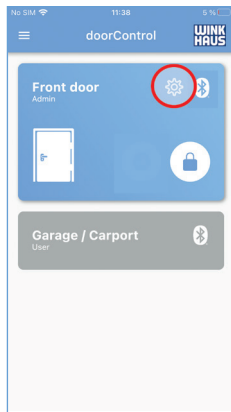


- Entrance door has been successfully unlocked.
 - Open and red lock 

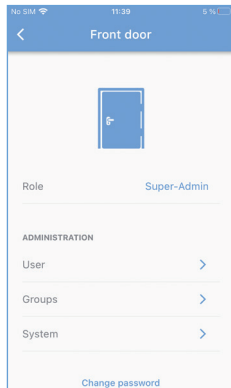


5.3.2 Settings

- Press the "gearwheel icon" 

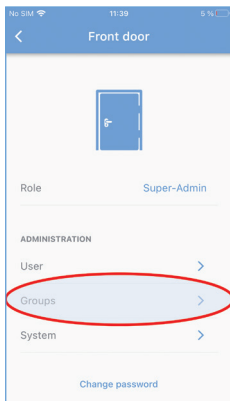


- Settings
 - User
 - Groups
 - System



5.3.3 Groups (set-up/time profiles)

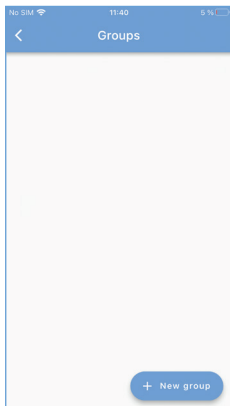
- Press "Groups"
 - User time profiles are defined in groups.
 - Recommendation: Start creating groups and add users to existing groups later.



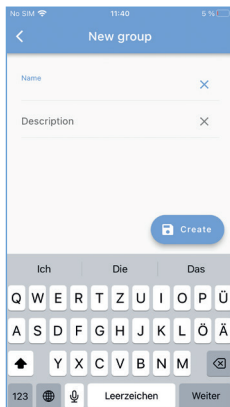
5

- Press "+ New group"

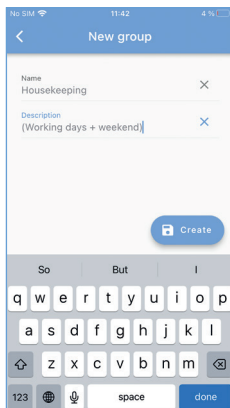
Tutorial doorControl - Create New User Group
<https://youtu.be/BegT2wUkAR8>



- New group
 - Enter the name of the group.
 - Enter more details of the group.

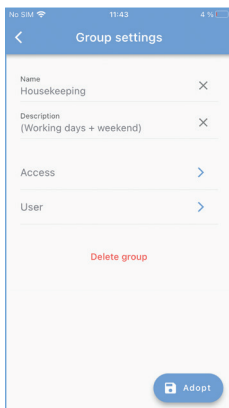


- Group name
 - Example of household help
- Group description
 - Example of restriction of access times or weekdays
- "Create" to confirm



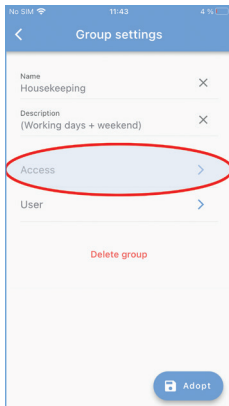
Group settings

- Access
 - Creating/configuring access times
- Users
 - Create/configure users within the group



5

- Press "Access"

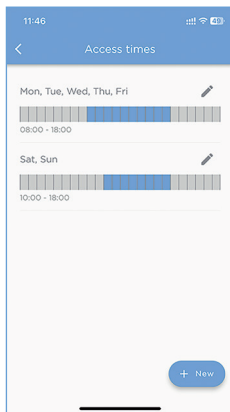


- Create access times

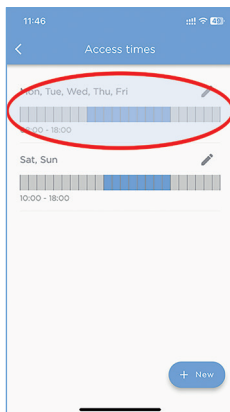
Tutorial doorControl - Assign access times

<https://youtu.be/F6oF5YRZACs>

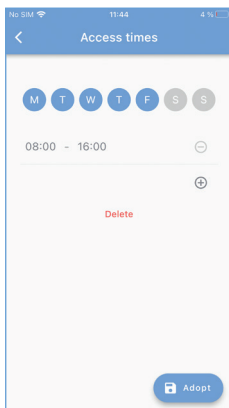
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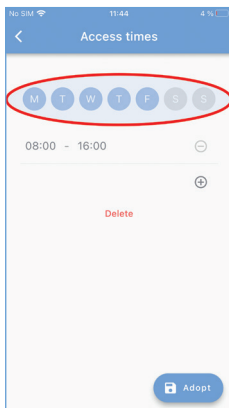
- Press bar or pen to configure access times



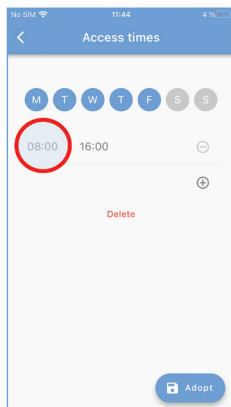
- Weekdays
- Time



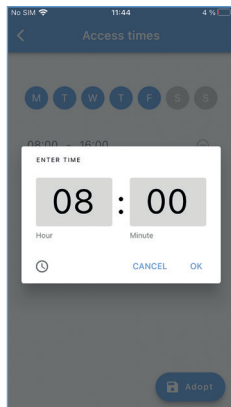
- Select the requested days of the week by tapping
 - Blue = active
 - Grey = inactive



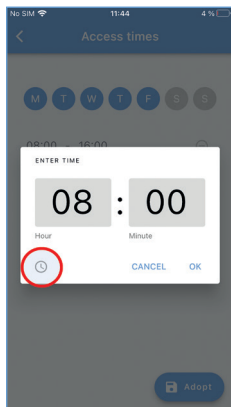
- Select the requested start time



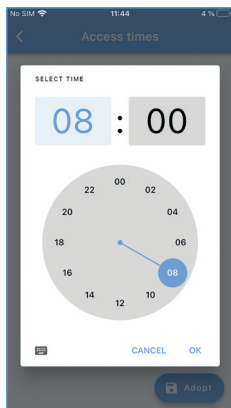
- Entry via numeric keypad



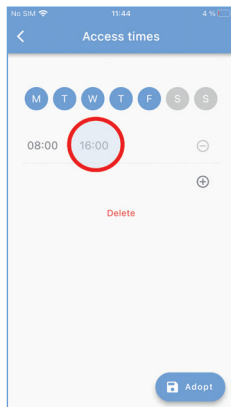
- Alternative entry via slider



- Set the start time using the slider



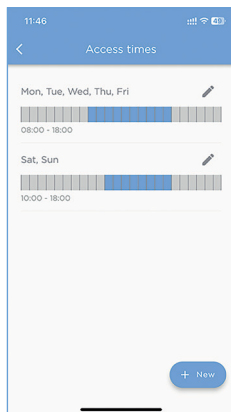
- Same procedure for selecting the end time



- Access times
 - Example configuration for different access times
 - These can be individually configured for each user by the admins and changed live at any time.



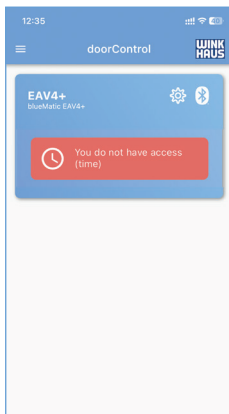
Notice: If originally assigned time profiles are no longer required (or additional ones are assigned), the original time profile must be deleted again (e.g. day in the first bar set to "inactive").



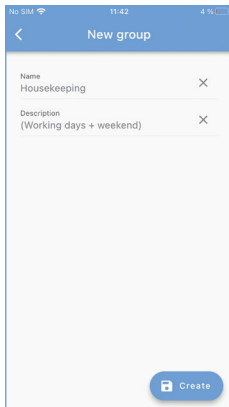
- Example screen for unauthorised access out of the approved periods



Notice: If the system time of the lock differs from the system time of an admin smartphone, a message appears: accept it and synchronise!

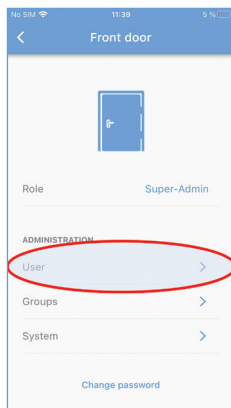


- Example view for different groups
 - Household help or
 - parcel delivery service
- Up to 25 groups are possible.



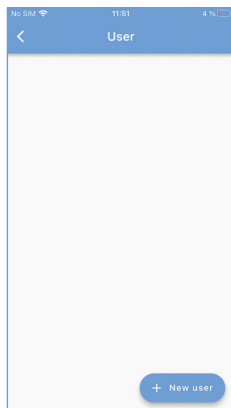
5.3.4 User

- Press "Users"



- Press "+ New user"

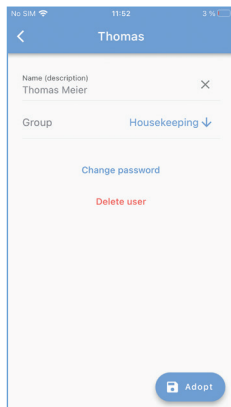
Tutorial doorControl – Create New User
<https://youtu.be/e29amKwxKJI>



- Name (description)
 - Example of first and last name or respective group membership
- User ID
 - User ID corresponds to the login name when logging in

- The password is set by the respective administrator and communicated to the user.
 - The user can change the password independently after logging in.

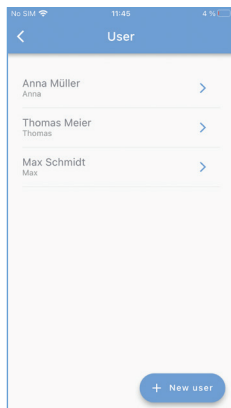
- User profile: Thomas Meier
 - Change/delete user description
 - Assignment of the required group previously created



5

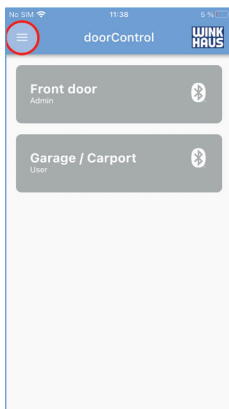
Tutorial doorControl - Delete User
<https://youtu.be/wPKWewDELy4>

- User settings
 - Display available users and/or
 - Create and configure "New user"
 - Up to 100 users can be established.



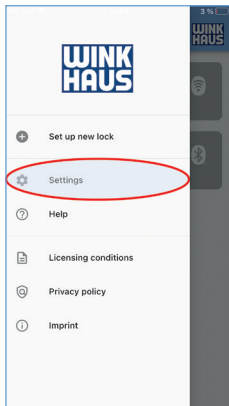
5.3.5 General settings

- Press "General menu"
- Make global settings

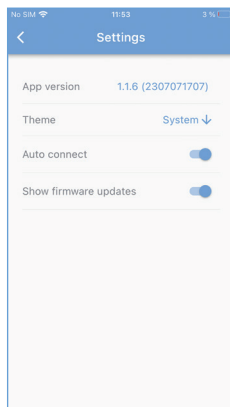


5

- General system settings and information

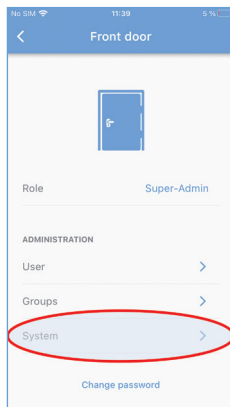


- Settings
 - Current app version
 - Design options
 - Automatic connection with locking system
 - Firmware updates

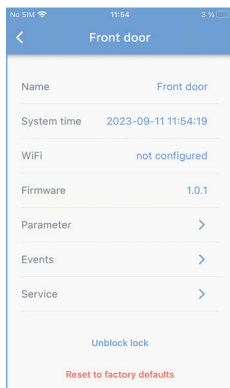


5.3.6 System

- Check system status:
 - Press "System"

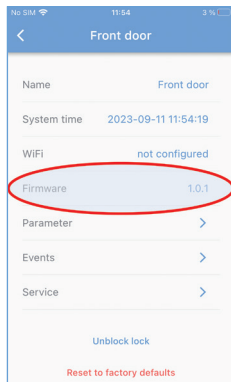


- Screen for detailed settings and information



5.3.7 Settings (firmware, parameters, help, signal generator)

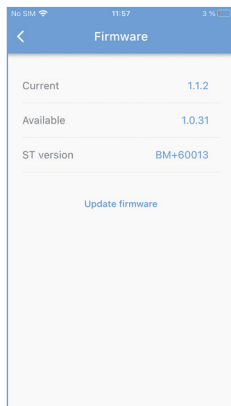
- Check firmware status:
 - Press "Firmware"



- Firmware
 - Currently installed firmware
 - Available firmware
 - ST version (STM microcontroller)
6: Hardware revision/13: Software version



Notice: If the current firmware differs from available firmware version → an update is required.

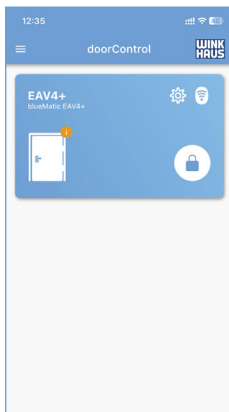


- Example of display ⓘ "Firmware update available"

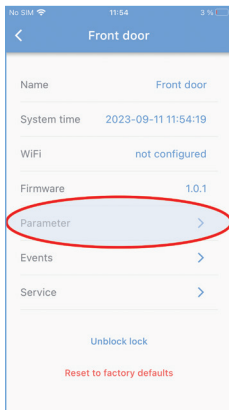


Notice: For updates please note the following:

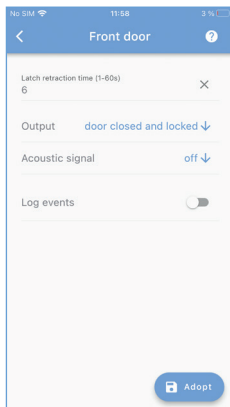
- During the firmware update, the system cannot be used or can only be used to a limited extent!
- Never disconnect the system from the power supply while updating!
- Damage may occur as a result. Repeat the update.
- In case of a tappet contact, the door sash must be closed during the update!



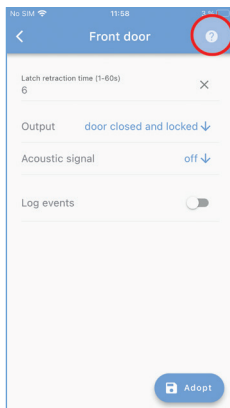
- Press "Parameters"



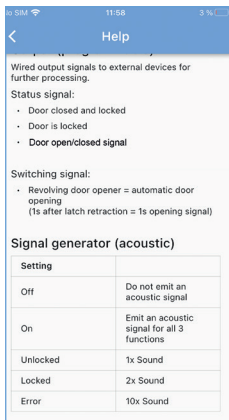
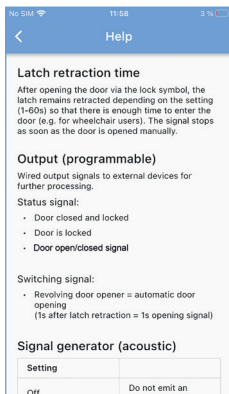
- Parameters
 - Latch retraction time
 - Output
 - » Programmable output signal
 - Signal transmitter
 - » Acoustic signal transmitter
 - Magnetic clip available
 - » Can be deactivated for 2-sash doors, then door sash open/closed is no longer visible.
 - Recording events



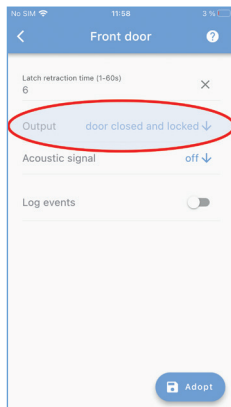
- Press "Help icon" for further explanations



- Help parameters
 - Latch retraction time
 - » After opening the door via the lock icon, the latch remains retracted for a certain time (can be set to 1 - 60 seconds), so that there is sufficient time to enter the door (e.g. for wheelchair users). The signal is interrupted as soon as the door is opened manually.
 - Output
 - Switch signal



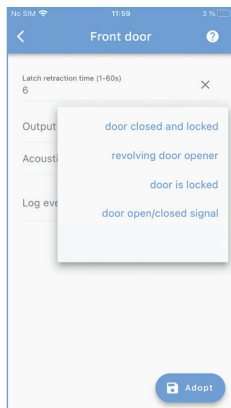
- Press "output"
- Output signal to external devices for further processing



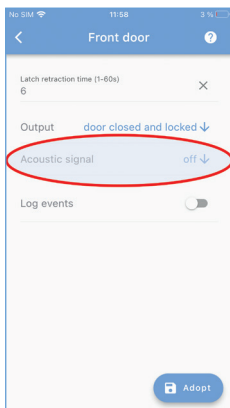
- Options for output/feedback signals:

- Door closed and locked (default setting)
- Door is locked
- Door open/closed signal
- Swing door opener:

Signal for controlling a swing door opener so that the door strike swings open the door sash after the unlocking procedure

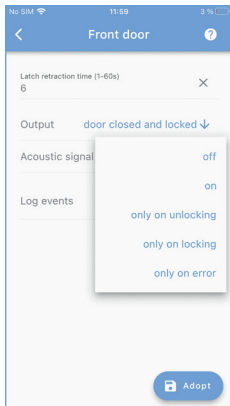


- Press "Signal transmitter"



5

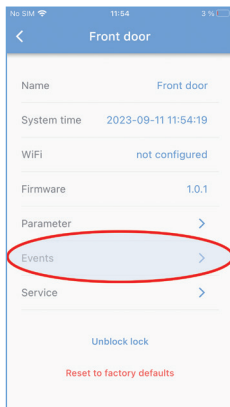
- off: no acoustic signal output
- on: acoustic signal output for all 3 following functions
- only on unlocking: 1 x acoustic signal
- only on locking: 2 x acoustic signal
- only on error: 10 x acoustic signal



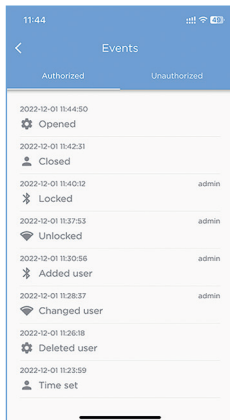
- Press "Events"



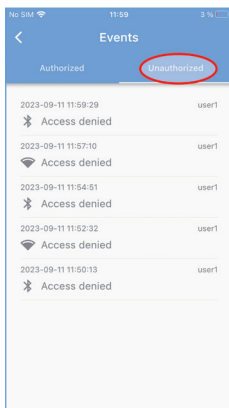
Notice: In total, the last 1,000 events are logged.



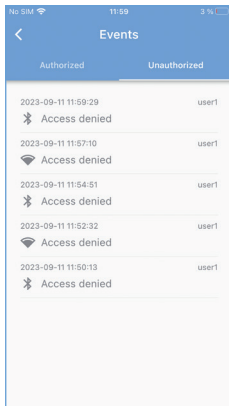
- Authorised events
 - Detailed list of all authorised processes with name, date and time



- Press "Unauthorized"



- Unauthorized events
 - Detailed list of all unauthorized transactions



5.4 Reset options

5.4.1 Reset to factory settings (with existing admin password)

A reason for resetting the factory settings can be a house sale, for instance.

5



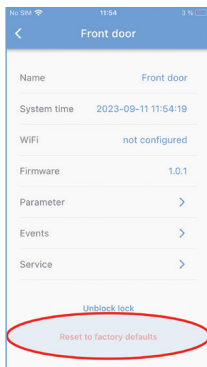
Attention!

The admin's app password must be available!

In the app, select front door/lock → press settings (gear wheel) → then "System" → "Reset to factory settings"

Result → all users/other settings deleted

If the locking system is to be taught in again, the initialisation QR code must be available → see Chapter 5.1 First initialisation.



5.4.2 Reset to factory settings (without existing admin password)

In order to enable a reset of the motor housing to the factory settings even without an existing admin password, a so-called reset switch is integrated in the motor housing. This is especially needed in the event that even the admin has no access to the app (password forgotten, admin not available, in case of death, inherited house, etc.).



Attention! To reset to factory settings, the door must be opened first (by authorised persons) and the QR code for first initialisation must be available (e.g. on the motor housing label or Winkhaus operating instructions sticker).

5

The reset switch can be reached and operated as follows:

- Unscrew the lower motor housing screw.

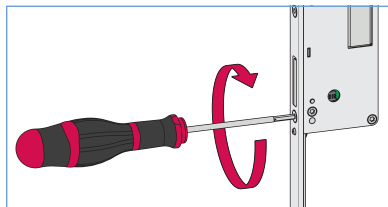
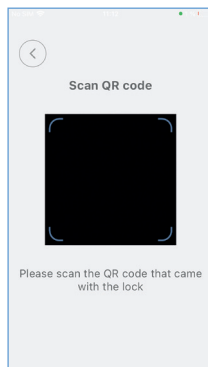


Figure 5.4.2-1:
Unscrewing the lower
motor housing screw

! Attention!
Left-hand thread!

Before pressing the reset switch, it must be activated via the app and is then active for 10 seconds.

- Scan QR code with the app (e.g. on motor housing label)
- In the app, select "Teach in new lock", after that the "Reset to factory settings" option.



- Briefly press reset switch with 3 mm screwdriver or **similar within 10 seconds**.

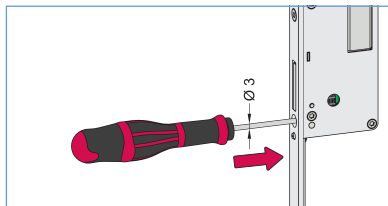


Figure 5.4.2-2:
Insert a thin object (e.g. screwdriver or wire with a diameter of approx. 3 mm) straight into the hole

- Message in app: "Restored to factory settings"
- Then reinsert the screw and tighten it.

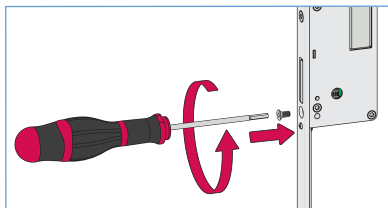


Figure 5.4.2-3:
Reinsert and tighten the
screw

Reset means:

- Reset to factory settings
- **ALL** settings such as admins/users/time profiles, etc. have been deleted.
- QR code for first initialisation is active again

6 Maintenance and care

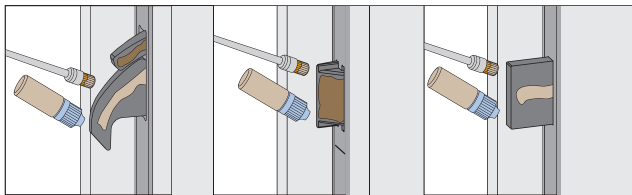
- Components of the door furniture relevant to security have to be checked for tightness and wear at regular intervals. If required, the retaining screws should be retightened and defective parts should be replaced.
- Check the locking mechanism and smooth operation of the security lock at regular intervals (at least once every three months).
- At least once a year - more frequently if under a higher stress factor - all moveable parts and all accessible sliding members of the locking system need to be lubricated with a light grease (e.g. with the grease Divinol Profilube SL (spraying grease); Divinol F14 EP or Shell Gadus S2 V100) and checked for proper performance regarding mechanics and electronics.

T-POLFETT 10 GR STÖBEL

5040239






Notice: Grease must be compatible with non-ferrous metals and plastics.



- You should only use neutral cleaning agents or care products that do not contain any abrasives in order to protect the anticorrosion coat of the door furniture.
- Clean electronic parts only in a dry state.

7 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: <ul style="list-style-type: none"> - The locking system has encountered an obstacle. - The door is extremely warped. - The latch was not correctly engaged. - Profile cylinder cam position $> \pm 45^\circ$ 	<p>Please contact customer service!</p> <p>Check door adjustment mechanically, e.g. pull door, open manually using key, press button to open door, perform function test.</p> <p>Furthermore:</p> <ul style="list-style-type: none"> - Check locking keeps for damage - Check door adjustment (keeps, airgap) - Adjust latch plate - Check profile cylinder <p>Attention! Acoustic signal 10 x followed by → blocking of motorised function, only mechanical actuation possible!</p> <p>Notice: In blocked state the lock can still be operated via a profile cylinder.</p>
 "Red !" Blocking of motorised lock	10 x acoustic signal/overload/poor operation, followed by → blocking of motor function	<p>Notice: To enable the lock to be operated electrically again after the fault has been rectified, the "Remove block/unblock" button must be pressed.</p> <p>After that the following message is displayed:</p> <p>"Attention! It is imperative to check the door status (e.g. optimise ease of movement / adjustment of keeps)."</p> <p>Notice: As an option, the blocking can be removed by interrupting the power supply (for approx. 30 seconds).</p>

Error/Display	Possible cause	Troubleshooting
the door does not lock automatically	<ul style="list-style-type: none"> the door is warped the contact pressure is too high the door has not been installed properly 	<ul style="list-style-type: none"> check the installation, and the keep adjustment and alignment adjust the hinge plates
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	Synchronization of system time For the access times in the app to function properly and securely, the system time of the mobile device must be synchronized with the app, so answer the app message with "OK".

8 Technical specifications

8.1 Power supply unit (mounting on DIN rail)

Input:	100 - 240V AC; 50/60Hz
Output:	24V DC stabilized
Current:	2,5A
Power:	60W
Dimensions (H x B x T):	90 x 53 (= 3 TE) x 58 mm
Weight:	approx. 0,3 kg

8.2 Frame power supply (BM+/EAV4)

Input:	230V AC, 47-63Hz, 0,6A
Output:	24VDC 1,5A (2,5A/2s)
Protection rating:	IP 20
Temperature range:	-10 °C to +55 °C
Earthing of the door frame:	Eyelet, screw connection with 4 x 15 mm
Dimensions:	Frame part approx. 260 x 24 x 33 mm (H x B x T)
Screw connection:	max. 4 x 20 mm screws (max. length due to cable routing!)

8.3 Motor housing EAV4

Voltage:	24V DC +/-5%
Power consumption (on standby):	0,5W Immediately after each motorized locking/unlocking, the WH lock is in standby mode (<1s). An additional standby mode is not possible depending on the type of device. <ul style="list-style-type: none">- Wired network ports are not available- Wireless network ports are always active and cannot be deactivated
Maximum current:	approx. 2000mA
Dimensions:	178 x 50 x 15,5 mm

Weight:	approx. 385g
Connection:	Plug, 6-pole, from Winkhaus premanufactures
Input (opening signal):	Potential-free contact as an impulse (>0,3s)
Screw connection:	3 x Countersunk screws DIN965 M4X8 TX15 A2F LS SZ (left-hand thread)
Latch retraction time:	2s (default setting)

8.4 Motor housing EAV4+

Voltage:	24V DC +/-5%
Leistungsaufnahme (im Bereitschaftszustand):	1,0W Immediately after each motorized locking/unlocking, the WH lock is in standby mode (<1s). An additional standby mode is not possible depending on the type of device. - Wired network ports are not available - Wireless network ports are always active and cannot be deactivated
Maximum current:	approx. 2000mA
Dimensions:	178 x 50 x 15,5 mm
Weight:	approx. 390g
Connection:	Plug, 6-pole, from Winkhaus premanufactures
Input (opening signal):	Potential-free contact as an impulse (>0,3s)
Output feedback signal (potential-free/ programmable):	Standard: Door closed + locked (alternative signal swing door opener) max. 30V DC/30mA
Screw connection:	3 x Countersunk screws DIN965 M4X8 TX15 A2F LS SZ (left-hand thread)
WLAN:	WLAN frequency band 2.4 GHz
Bluetooth®:	Bluetooth® 4.2 LE (frequency 2.4 GHz)
Latch retraction time:	2s (standard, adjustable via app, max. 60s)

8.5 Cable transition T-KÜ-T1 FT

General Specifications

Measurements:	Overall length approx. 260 mm
Cross section of wires:	6 x 0.25 mm ²
Max. voltage:	48V DC
Max. switching current:	2A per connection line/wire
Screw fixing:	3 piece 3 x 20 mm, 1 piece 2.9 x 32 mm (included in set sash part)

Cable transition T-KÜ-T1 FT sash part

Sash part:	<ul style="list-style-type: none">• T-KÜ-T1 FT 2 M with 2 m cable + plug for motor housing• T-KÜ-T1 FT 3,5 M with 3.5 m cable + plug for motor housing• T-KÜ-T1 FT 4,5 M with 4.5 m cable + plug for motor housing
------------	--

Cable transition frame part (order frame part separately)

Frame part:	<ul style="list-style-type: none">• T-KÜ-T1 RT KABEL 4 M with 4 m cable and cable end sleeves• T-KÜ-T1 RT KABEL 0.6 M RNT with 0.6 m cable and plug for frame power supply
-------------	---

Cable transition T-HT KÜ M1188

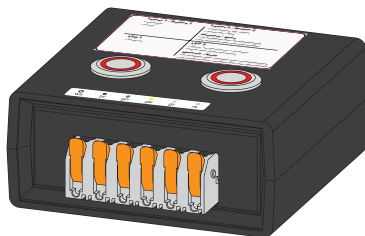
Dimensions:	20 x 382 x 15 mm
flexible length of spiral:	241 mm

8.6 App doorControl

- max. 100 users
- max. 25 groups
- max. 25 devices/locking systems
- for iOS and Android smartphones or tablets
- support period of the app after product discontinuation: 2 years
- System requirements: iPhone iOS, 11.0 or higher; iPad iPadOS, 11.0 or higher; Android version, 5.0 or higher

9 Accessories

Test device



T-TESTGERÄT EAV4/EAV4+/BM+ (5091732)

- i** Test device for checking the functions of the motorized locking system EAV4/EAV4+/BM+
- For testing "motor function", e.g. in the workshop of processors/door manufacturers
- not for end customers
- NOT intended for testing with app (use smartphone for this)
- Functionality of the test device is explained by means of a sticker

LED EAV4+/BM+



T-LED EAV4+/BM+ STATUS (5088822)

- i** LED for optional plug & play connection to the BM+ or EAV4+ motor housing. Shows the user how long it takes the motor to unlock, for example, or when the door can be opened (installation on the outside of the door, e.g. for environments with a high noise level)

**Connection cable 6 m
6-wire for motor**



**T-HT ANSCHLUSSKABEL 6M/6ADRIG FÜR
MOTOR (5104567)**

- i** Cable 6 m ($6 \times 0,25 \text{ mm}^2$)
1st Cable end with plug for motor housing
2nd Cable end with wire end sleeve
Use as an alternative to cable transition
T-KÜ-T1 FT 2/3,5/4,5 M.

**Connection cable 10 m
5-wire for motor**



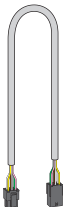
**T-HT ANSCHLUSSKABEL 10M/5ADRIG FÜR
MOTOR (5025348)**

- i** Cable 10 m ($5 \times 0,25 \text{ mm}^2$)
1st Cable end with plug for motor housing
2nd Cable end with wire end sleeve
Use as an alternative to cable transition
T-KÜ-T1 FT 2/3,5/4,5 M.



Attention! The lock's feedback contact **CANNOT** be used with a 5-wire cable. To this effect 6 wires are absolutely necessary!

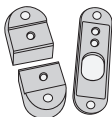
Extension cable



**T-LB VERL.KABEL 0,25 M RNT ZU KÜ-T1
(5066122)**

- i** plug-in extension between frame power supply RNT and frame part cable transition
T-KÜ-T1 RT KABEL 0,6M RNT

Adapter for cable transition



T-HT KABELÜBERGANGADAPTER H4 M1210 (2126951)

- i** Cable transition adapter for cable transition T-HT KÜ M1188, e.g. for timber doors, to cover the fitting contour

End cap STK/RNT

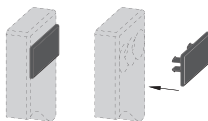


T-LB ENDKAPPE STK/RNT HOLZ H4 R12 SW (5035742)

- i** End cap for frame power supply and tappet contact (frame side) and keep magnetic clip 7.5 mm with radius 12 mm, e.g. for wooden entrance doors with 4 mm airgap, in packages of 10 pieces in a plastic bag

9

Screw cover



T-SET 10 X SCHRAUBABDECKUNG RNT+STK 4MM SW (5044566)

- i** Magnetic clip can be used to optionally cover the screw holes on the frame power supply unit, tappet contact and striking plate (with central screw connection).

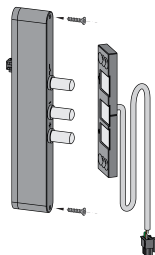
Cover Strip



T-ABDECKUNG KÜ-T1 RT R8 RAL 7035 (5040517)

- i** Cover strip T-KÜ-T1 RT R8 (separate), serves to cover the profile hole on the frame side, when using the frame part T-KÜ-T1 RT KABEL 0,6M RNT

Set tappet contact



T-SET STÖBEL O.STULP+SB U24x7,5 12-24V SW (5035741)

i Sash part tappet contact and frame part set

- Frame part with cable (0.6 m)/plug connector
- Sash part with socket, without cable
- with 2 x countersunk screws 3 x 14 mm TX10 for mounting on the face plate
- Plus/Minus/Signal identification

Face plate for sash part



T-STÖBEL STULP FLÜGEL ...

i Face plate for sash part tappet contact in different versions/for screw connection with sash part tappet contact/screws included in the tappet contact set indicated above

Spacer plate



T-DISTANZPLATTE 6 MM KS SW (optional) (5035743)

i Spacer plate 6 mm for installation between face plate and sash part to reduce the tappet length, e.g. due to:

- 9 mm Eurogroove position, small Eurogroove positions
- with a small residual airgap
- for specific hinge situations (e.g. concealed hinges)

10 Classification/Declaration of performance

10.1 Electromechanical locks according to EN 14846

Artikel No.	Backset	Centre distance	Faceplate	Classification
T-EAV	35 - 65 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-EAV3	35 - 85 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-AV2B	35 - 65 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-AV4 with motor housing EAV3	35 - 80 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-AV4D with motor housing EAV3	35 - 80 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-AV4 with motor housing EAV4	35 - 80 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302
T-AV4D with motor housing EAV4	35 - 80 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	UK CA CE2S5C0G302



Notice: Suitable for fire and smoke protection doors
(Special version = with steel latch).

10.2 VdS Acceptance (based on VdS 2344, 2201)

Acceptance/Basis of the Approval

VdS 2344:2022-10

VdS 2201:2004-02



Acceptance class B

Acceptance-No.: M 125309

The subject of the recognition covers the following components	Type
Cylinder mortise lock with multi-point locking class B	
Type AV4D consisting of:	
Main lock with latch and deadbolt	AV3
2 secondary locks with hook, self-locking	AV4D
optionally with main lock with latch without deadbolt	AV3-OR
optionally with locking bar (entryguard)	W
Type EAV4 consisting of:	
Main lock with latch and deadbolt	AV3
2 secondary locks with hook, self-locking	AV4D
Motor housing	EAV4 *
optionally with main lock with latch without deadbolt	AV3-OR
optionally with with hook bolt, self-locking	AV4
optionally with motor housing	EAV3
optionally with locking bar (entryguard)	W
* does not apply to Plus variant / blueMatic EAV4+	

10.3 Certificat DIN 18251-3

The company Aug. Winkhaus SE & Co. KG is certified, that it has fulfilled the requirements of DIN 18251 "Safety-relevant characteristics according to Table 3, Class 4 according to DIN 18251-3: 2002-11".

Declaration of performance No. 008.4 CPR

- Unique identification code of the product type:
blueMatic EAV/EAV3, blueMatic AV2B, Electromotorised door locks according to EN 14846
- Type, batch or serial number of a different identifier for identification of the construction product according to Article 11 paragraph 4, of the Construction Products Regulation (CPR):
STV-AV4 + motor housing EAV3 (mounted/not mounted), STV-AV4 + motor housing EAV4 (mounted/not mounted), STV-AV4D + motor housing EAV3 (mounted/not mounted), STV-AV4D + motor housing EAV4 (mounted/not mounted), STV-AV3 + motor housing EAV3 (mounted/not mounted), STV-AV2 + motor housing EAV3 (mounted/not mounted), STV-AV2B, STV-API79 AV2 OR
- Purpose of use intended by the manufacturer or intended purpose of use of the construction product in accordance with the applicable harmonised technical specification:
**For the use in fire and/or smoke protection doors, which includes a suitable door closing device, to meet the requirements for such doors in terms of automatic closing and then make sure that the doors stay closed.
For use with fire-protection doors, to get the fire protection of the door system.**
- Name, registered trade name or trademark and contact information of the manufacturer in accordance with Article 11 paragraph 5, of the Construction Products Regulation (CPR):
**Aug. Winkhaus SE & Co. KG
August-Winkhaus-Straße 31, 48291 Telgte, Germany**
- Name and contact information of the authorised person, if applicable, who is commissioned with the tasks in accordance with Article 12 paragraph 2 (CPR):
N.N.
- Systems or systems for the evaluation and inspection of the performance reliability of the construction product in accordance with Annex V of the Construction Products Regulation (CPR):
System 1
- The MPA NRW with the identification number 0432-MPA-NRW of the notified body has carried out the type inspection in accordance with the specifications of EN 14846:2008 and evaluated and verified the performance reliability according to System 1 as well as issued the test report.

**Certificate 0432-CPR-00107-04
(Version: 02)**

- Declared performance:

Harmonised technical specification EN 14846:2008	
Significant features	Performance
Capability for automatic closing	
5.4 Door mass and closing force	Class S: up to 200 kg door mass, 25 N maximum closing force
Annex A (5.12 DIN EN 12209) Retraction force of the latch	≥ 2.5 N
Durability the capability to automatic close	
5.3.2 Durability of latch action	Class S: 200.000 cycles with 50 N load on the latch
Ability for fire/smoke protection doors assemblies	
5.5 Ability for fire/smoke protection doors assemblies	Class C: For use in fire/smoke protection doors up to the fire protection class 30 min suitable
5.1.2 Control of harmful substances	Products consist of various individual products. Some of these individual products also contain harmful substances in their composition. These are bound in the material. No effects are to be expected if the material comes into contact with the product as intended and is therefore safe to use.

- The product described under sections 1 and 2 fulfils the performances listed under section B.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.
Signed for and on behalf of the manufacturer by:

Meiningen, 06.03.2023

ppa. D. D. Warnow, Technical Director

ppa. A. Dinkelborg, Director of Product Management

EU-Declaration of Conformity



- Document number./month. year: **004/04.2025**
- The sole responsibility for issuing the declaration of conformity with regard to the fulfillment of essential requirements and the preparation of the technical documentation is borne by:
Manufacturer: **Aug. Winkhaus SE & Co. KG**
Address: **August-Winkhaus-Straße 31, 48291 Telgte/ Germany**
- The subject of the declaration are the following products:
Designation, model number: **Motor lock blueMatic EAV4**
T-EAV4... .../.../... M... (Look with motor housing)
T-MOTORKASTEN EAV4 (24V) BL
T-LB-MOTORKASTEN EAV4 (24V) BL SK
T-HT NETZTEIL 24V DC/2,5A
T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4
- It is hereby declared for the above-mentioned products that they meet the basic requirements set out in the below-mentioned harmonization provisions are laid down:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain dangerous substances in electrical and electronic equipment (recast) - in short: RoHS Directive
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to electromagnetic compatibility - in short: EMC Directive
DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment for use within certain voltage limits - in short: Low Voltage Directive
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for establishing requirements for the environmentally friendly design of energy-related products - in short: Ecodesign Directive

- Indication of the relevant harmonized standards taken as a basis, or indication of the specifications for which conformity is declared:

Norm	Date of issue	Titel	Harmonized norm
EN IEC 63000	2018	Technical documentation for assessing electrical and electronic devices with regard to the restriction of hazardous substances	RoHS Directive
EN IEC 61000-6-3	2021	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - interference emissions for residential areas, business and commercial areas as well as small businesses	EMC Directive
EN IEC 61000-6-2	2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - interference immunity for industrial areas	EMC Directive
EN IEC 62368-1	2014+A11:2017	Facilities for audio video, information and communication technology - Part 1: Security requirements	Low Voltage Directive
Ecodesign Regulation 2023/826	2023-04	Laying down ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment pursuant to Directive 2009/125/EC of the European Parliament and of the Council (EC) No 1275/2008 and (EC) No 107/2009	Ecodesign Directive

- Additional Information:
This declaration applies to all products that are manufactured according to the corresponding production drawings, which are part of the technical documentation.

Signed for and on behalf of the manufacturer by: **Aug. Winkhaus SE & Co. KG**

Meiningen, 02/04/2025

ppa. Dr. D. Warnow, Technical Director

ppa. A. Dinkelborg, Director of Product Management



UKCA-Declaration of Conformity

- Document number./month. year: **004/04.2025**
- This declaration is made responsible for:
Manufacturer: **Winkhaus UK Ltd.**
Address: **2950 Kettering Parkway, NN15 6XZ Kettering / Great Britain**
- The sole responsibility for issuing the declaration of conformity with regard to the fulfillment of essential requirements and the preparation of the technical documentation is borne by:
Manufacturer: **Aug. Winkhaus SE & Co. KG**
Address: **August-Winkhaus-Straße 31, 48291 Telgte / Germany**
- The subject of the declaration are the following products:
Designation, model number: **Motor lock blueMatic EAV4**
T-EAV4... .. / ... M... (Look with motor housing)
T-MOTORKASTEN EAV4 (24V) BL
T-LB-MOTORKASTEN EAV4 (24V) BL SK
T-HT NETZTEIL 24V DC/2,5A
T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4
- It is hereby declared for the above-mentioned products that they meet the basic requirements set out in the below-mentioned harmonization provisions are laid down:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain dangerous substances in electrical and electronic equipment (recast) - in short: RoHS Directive
DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to electromagnetic compatibility - in short: EMC Directive
DIRECTIVE 2014/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment for use within certain voltage limits - short: Low Voltage Directive
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for establishing requirements for the environmentally friendly design of energy-related products - in short: Ecodesign Directive

- Indication of the relevant harmonized standards taken as a basis, or indication of the specifications for which conformity is declared:

Norm	Date of issue	Titel	Harmonized norm
EN IEC 63000	2018	Technical documentation for assessing electrical and electronic devices with regard to the restriction of hazardous substances	RoHS Directive
EN IEC 61000-6-3	2021	Electromagnetic compatibility (EMC) -Part 6-3: Generic standards - Interference emissions for residential areas, business and commercial areas as well as small businesses	EMC Directive
EN IEC 61000-6-2	2019	Electromagnetic compatibility (EMC)-Part 6-2: Generic standards - Interference immunity for industrial areas	EMC Directive
EN IEC 62368-1	2014+All:2017	Facilities for audio video, information and communication technology - Part 1: Security requirements	Low Voltage Directive
Ecodesign Regulation 2023/826	2023-04	Laying down ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment pursuant to Directive 2009/125/EC of the European Parliament and of the Council (EC) No 1275/2008 and (EC) No 107/2009	Ecodesign Directive

- Additional Information:

This declaration applies to all products that are manufactured according to the corresponding production drawings, which are part of the technical documentation.

Signed for and on behalf of the manufacturer by: **Aug. Winkhaus SE & Co. KG**

Meiningen, 02/04/2025


ppa. Dr. D. Warnow, Technical Director


ppa. K. Dinkelborg, Director of Product Management

EU-Declaration of Conformity



- Document number./month. year: **005/04.2025**
- The sole responsibility for issuing the declaration of conformity with regard to the fulfillment of essential requirements and the preparation of the technical documentation is borne by:
Manufacturer: **Aug. Winkhaus SE & Co. KG**
Address: **August-Winkhaus-Straße 31, 48291 Telgte / Germany**
- The subject of the declaration are the following products:
Designation, model number: **Motor lock blueMatic EAV4+
T-EAV4+... .../... M... (Look with motor housing)
T-MOTORKASTEN EAV4+ (24V) BL
T-MOTORKASTEN EAV4+ (24V) SWP
T-HT NETZTEIL 24V DC/2,5A
T-NETZTEILRAHM 24V DC 1,5A (2,5A/25) BM+/EAV4**
- It is hereby declared for the above-mentioned products that they meet the basic requirements set out in the below-mentioned harmonization provisions are laid down:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain dangerous substances in electrical and electronic equipment (recast) - in short: RoHS Directive
DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC - in short: RED Directive
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL establishing a framework for establishing requirements for the environmentally friendly design of energy-related products - in short: Ecodesign Directive

- Indication of the relevant harmonized standards taken as a basis, or indication of the specifications for which conformity is declared:

Norm	Date of issue	Titel	Harmonized norm
EN IEC 63000	2018	Technical documentation for assessing electrical and electronic devices with regard to the restriction of hazardous substances	RoHS Directive
EN IEC 61000-6-3	2021	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Interference emissions for residential areas, business and commercial areas as well as small businesses	EMC Directive
EN IEC 61000-6-2	2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Interference immunity for industrial areas	EMC Directive
ETSI EN 301 489-1 V2.2.3	2019-11	Electromagnetic compatibility (EMC) - Part 3: Specific conditions for short range radio devices (SRD) for operation in the frequency range 9 kHz to 246 GHz	RED Directive
ETSI EN 301 489-17 V3.2.4	2020-09	Electromagnetic Compatibility (EMC) standard for radio devices and services; Part 17: Special conditions for broadband data transmission systems; Harmonized standard covering the essential requirements of Article 3.1 (B) of Directive 2014/53/EU	RED Directive
ETSI EN 300 328 V2.2.2	2019-07	Broadband transmission systems - Data transmission devices operating in the 2.4 GHz band - Harmonized standard for the use of radio frequencies	RED Directive
EN IEC 62368-1	2014+A11:2017	Facilities for audio video, information and communication technology - Part 1: Security requirements	RED Directive
EN 62311:2020	2020	Assessment of electrical and electronic equipment in relation to human exposure limitations to electromagnetic fields (0 Hz to 300 GHz)	RED Directive
Ecodesign Regulation 2023/826	2023-04	Laying down ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment pursuant to Directive 2009/125/EC of the European Parliament and of the Council (EC) No 1275/2008 and (EC) No 107/2009	Ecodesign Directive

- Additional Information:
This declaration applies to all products that are manufactured according to the corresponding production drawings, which are part of the technical documentation.

Signed for and on behalf of the manufacturer by: **Aug. Winkhaus SE & Co. KG**

Meiningen, 02/04/2025

ppa. Dr. D. Warnow, Technical Director

ppa. A. Dinkelborg, Director of Product Management

UKCA-Declaration of Conformity



- Document number./month, year: **005/04.2025**
- This declaration is made responsible for:
Manufacturer: **Winkhaus UK Ltd.**
Address: **2950 Kettering Parkway, NN15 6XZ Kettering / Great Britain**
- The sole responsibility for issuing the declaration of conformity with regard to the fulfillment of essential requirements and the preparation of the technical documentation is borne by:
Manufacturer: **Aug. Winkhaus SE & Co. KG**
Address: **August-Winkhaus-Straße 31, 48291 Telgte / Germany**
- The subject of the declaration are the following products:
Designation, model number: **Motor lock blueMatic EAV4+
T-EAV4+... .../... M... (Look with motor housing)
T-MOTORKASTEN EAV4+ (24V) BL
T-MOTORKASTEN EAV4+ (24V) SWP
T-HT NETZTEIL 24V DC/2,5A
T-NETZTEILRAHM 24V DC 1,5A (2,5A/2S) BM+/EAV4**
- It is hereby declared for the above-mentioned products that they meet the basic requirements set out in the below-mentioned harmonization provisions are laid down:

DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the restriction of the use of certain dangerous substances in electrical and electronic equipment (recast) - in short: RoHS Directive
DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC - in short: RED Directive
DIRECTIVE 2009/125/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, establishing a framework for establishing requirements for the environmentally friendly design of energy-related products - in short: Ecodesign Directive

- Indication of the relevant harmonized standards taken as a basis, or indication of the specifications for which conformity is declared:

Norm	Date of issue	Titel	Harmonized norm
EN IEC 63000	2018	Technical documentation for assessing electrical and electronic devices with regard to the restriction of hazardous substances	RoHS Directive
EN IEC 61000-6-3	2021	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - interference emissions for residential areas, business and commercial areas as well as small businesses	RED Directive
EN IEC 61000-6-2	2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - interference immunity for industrial areas	RED Directive
ETSI EN 301 489-1 V2.2.3	2019-11	Electromagnetic compatibility (EMC) - Part 3: Specific conditions for short range radio devices (SRD) for operation in the frequency range 9 kHz to 246 GHz	RED Directive
ETSI EN 301 489-17 V3.2.4	2020-09	Electromagnetic Compatibility (EMC) standard for radio devices and services; Part 17: Special conditions for broadband data transmission systems; Harmonized standard covering the essential requirements of Article 3.1 (B) of Directive 2014/53/EU	RED Directive
ETSI EN 300 328 V2.2.2	2019-07	Broadband transmission systems - Data transmission devices operating in the 2.4 GHz band - Harmonized standard for the use of radio frequencies	RED Directive
EN IEC 62368-1	2014+ A11:2017	Facilities for audio video, information and communication technology - Part 1: Security requirements	RED Directive
EN 62311:2020	2020	Assessment of electrical and electronic equipment in relation to human exposure limitations to electromagnetic fields (0 Hz to 300 GHz)	RED Directive
Ecodesign Regulation 2023/826	2023-04	Laying down ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment pursuant to Directive 2009/125/EC of the European Parliament and of the Council (EC) No 1275/2008 and (EC) No 1017/2009	Ecodesign Directive

- Additional Information:
This declaration applies to all products that are manufactured according to the corresponding production drawings, which are part of the technical documentation.

Signed for and on behalf of the manufacturer by: **Aug. Winkhaus SE & Co. KG**

Meiningen, 02/04/2025

ppa. Dr. D. Warrow, Technical Director

ppa. A. Dinkelborg, Director of Product Management

11 Disposal



Disposal!

This symbol and signal word is used to identify environmental damage caused by incorrect disposal of batteries and electronic components. The electronic hardware must be disposed of correctly. Disposal as domestic waste is prohibited. The electronic hardware must therefore be disposed of in accordance with the European directive 2012/19/EU at a municipal collection centre for electronic waste or via a specialist company.



Notice:

The packaging must be recycled separately in accordance with the separation regulations for packaging.

Manufactured and distributed by:

Aug. Winkhaus SE & Co. KG

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48291 Telgte
Germany

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F +49 3693 950-134

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