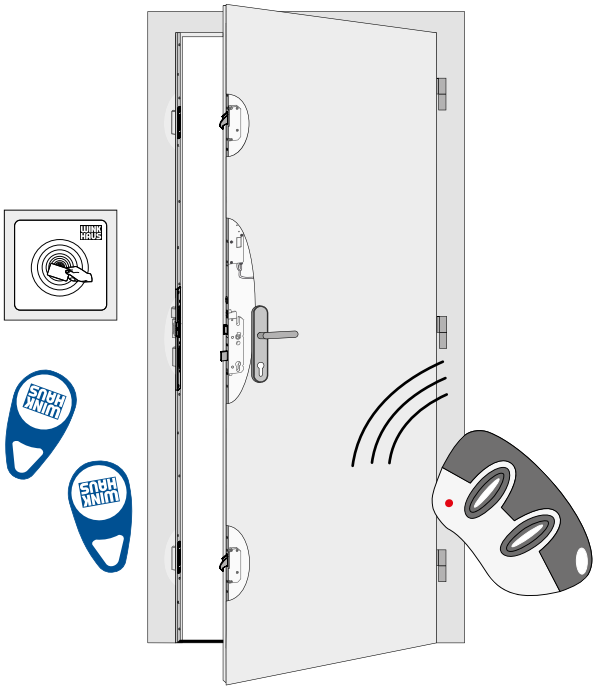
blueMatic EAV (12 V)

Automatic Locking System with Motor Operated Opening

Installation, Operating and Maintenance Instructions



After installation please pass on these instructions to the end customer. (Disclosure obligation stipulated in the Product Liability Act.)

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 (89/336/EEC).

The manufacturer shall hereby certify the conformity of this product and document such by the CE marking according to the CPR (see Appendix).

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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 automatic locking system with motor operated opening , 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 automatic locking system with motor operated opening 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 your confidence you have put in us by purchasing our high-quality product.
Please read this installation, operating and maintenance instruction carefully to become acquainted with the installation and use of this security door locking system and to avoid malfunctions and safety hazards.

Acceptance class A
for autoLock AV2,
Acceptance-No.:
M105301

Acceptance class B
for autoLock AV3,
Acceptance-No.:
M113345

1.2 Intended use

The automatic locking system with motor operated opening and the Winkhaus components recommended are suitable for the following areas of application:

- relative air humidity of max. 95%
- ambient air temperature of between - 20°C and + 60°C.

The described components/motor housings are suitable for motor extension of the autoLock AV3 (also for autoLock AV2) up to blueMatic EAV3 (blueMatic EAV2).

The complete door fittings are designed to be used in conjunction with genuine Winkhaus parts. Other parts which are not recommended by Winkhaus can adversely affect the default properties of this locking system. It is assumed that the lock will be used as intended. The proper functions of the access control systems and the accessories included in the scope of delivery of the Winkhaus company have been tested. If you use components made by other companies and if you have any doubts about the suitability of these components, you will have to contact the respective manufacturer to ensure their fitness for use.

General information
1 Important information
2 Product description
3 Installation
4 Operation Programming
5 Maintenance and care
6 Errors Troubleshooting
7 Technical specifications
8 Accessories

To ensure the intended use:

- the information and instructions required for this purpose have to be passed on to the respective persons;
- only trained professionals should install the door fittings, locking units and accessories according to the installation instructions. DIN standards, which may also apply are to be followed, also.

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

- installed according to their defined function and the installation specifications,
- not used in any other way than described,
- maintained and cared for at regular intervals as instructed, and/or defined sliding places oil at least 1 x annually (like e.g. chamfer of latch ...) if necessary more frequently,
- not used if signs of wear are detected,
- repaired by trained professionals in the event of malfunctions.

The supplier/manufacturer does not accept any liability for personal injury or material damage caused by incorrect operation or improper use.

1.3 Use contrary to the intended purpose

The locking systems are not designed to absorb or compensate for any movement changes or in the closing mechanism of the door caused by changes in temperature or in the structure of the building.
Doors which are used in damp rooms and in environments with aggressive corrosion related air conditions require special door furniture.

Incorrect use of the locking systems is evident if:

- the instructions on the intended use are not being followed;
- the problem-free operation is hindered due to the installation of external items that are not suitable or block the external outside function, the locking system or within the center keep;
- the locking system or the center keep is manipulated in such a way that its 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 additional opening and closing equipment or the thrown deadbolt are improperly used in order to keep the door open;
- force is used to drive the handle pin through the lock spindle;
- the locking components are wrongly installed or are tampered with, e.g. by painting over movable parts such as the lock deadbolt or latch;
- the locking system is subject to loads which exceed normal manual force and are transmitted via the cylinder key;
- perform a manual or mechanical locking or unlocking during the motor is working;
- the handle is not loaded in the normal sense of rotation or a a force above 150 N is applied onto the handle in the direction of actuation;
- the gap between the door frame and sash is increased or decreased, which would for instance result from readjusting the hinges or if the door drops;
- auxiliary lifting tools or objects are used to open or close the lock;
- the handle and the key are actuated simultaneously;
- the lock is locked/unlocked by using improper tools or equipment;
- Incorrect input values are applied in contravention of the Technical specifications.

1.4 Explanation of symbols

Symbols and flags are used to identify important information in this operating manual. Flags such as DANGER or CAUTION indicate the degree of hazard.
It is imperative that you follow the measures listed to avoid hazard to safety!

DANGER!
Danger to life or danger of serious injuries.

CAUTION!
Danger of material damage.

NOTICE!
Useful information and tips.

General information
1 Important information
2 Product description
3 Installation
4 Operation Programming
5 Maintenance and care
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7 Technical specifications
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ECO-WATCH!

Notices on complying with regulations on environmental protection.

1.5 Important safety information

Safety information described in this section is to be diligently adhered to regarding the installation and use of this security lock.

You must heed to the safety information provided without exceptions!

- Read the operating manual and keep it easily accessible for future reference. After installing the door pass it on to the end customer.
- 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 affect the given properties of the security lock.
- It must be ensured that the door can be closed without any difficulties with the key.
- Installation/Repair of electrical equipment requires expertise, thus such work should only be carried out by a qualified 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 locking system as stipulated within the bounds of statutory regulations, if the manufacturer himself or another instructed, authorized agent has carried out the maintenance and service work or made the changes.
- Winkhaus shall not be liable for any type of damage caused by inadequate repair or changes made.

1.6 Abbreviations/Explanations

The following terms and abbreviations are used in this manual:

STV	Security door lock
AV2	autoLock AV2 (Automatic locking system) 2. generation
AV3	autoLock AV3 (Automatic locking system) 3. generation
EAV	blueMatic EAV (Automatic locking system with motor operated opening)
Handle	Door handle
Grt.	Set
SB FRA	Center keeps – latch/deadbolt/adjustment plate
M2	with 2 hooks
RS	DIN-right-handed
LS	DIN-left-handed
MC	Surface matt chrome-plated
EST	stainless steel
GR	grey powder coated
Reader	Reader unit/control unit of the transponder set
AC	Alternating current
DC	Direct current
NO	Make contact
NC	Break contact
NO-NC	Changer contact
ANT/GND	Auxiliary antenna/Ground
UP-socket	Flush-type box
LED	Light emitting diode
PE	Ground wire
N	Neutral wire
L	Phase

2 Product description

The blueMatic EAV (automatic locking system with motor operated opening) is a state-of-the-art locking unit for securing and locking entry doors in a contact-free manner. The hooks can be retracted electrically so as to open the door.

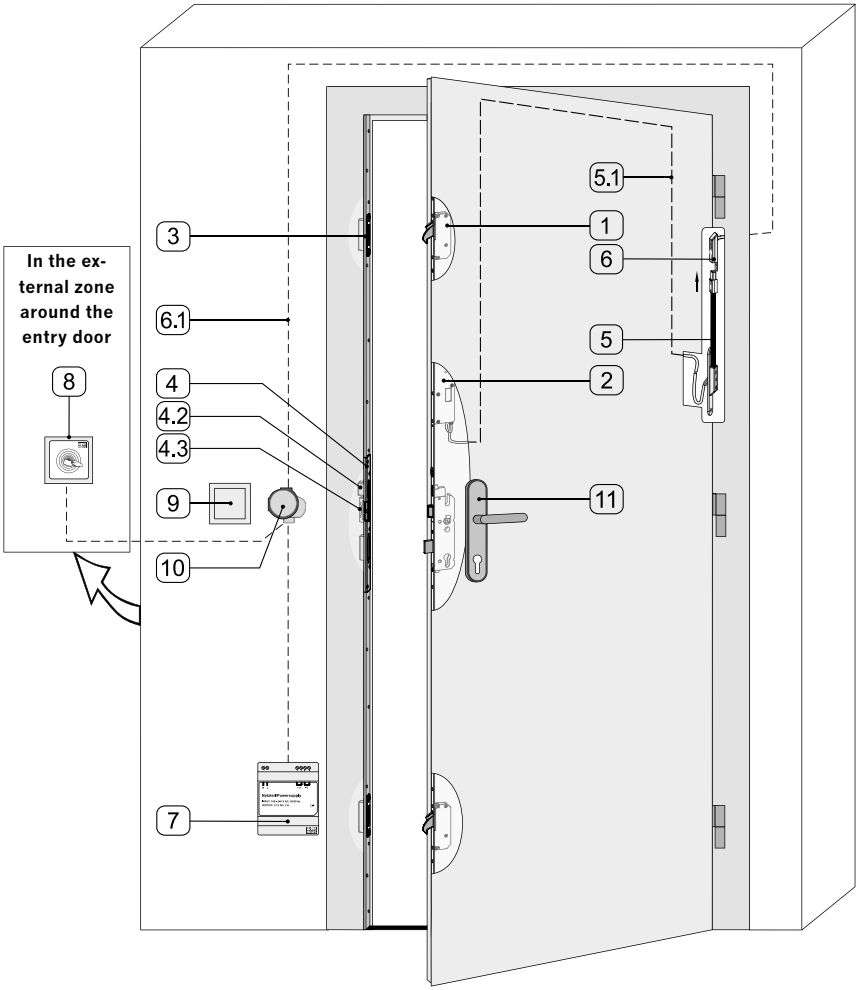

Figure 2-1: blueMatic EAV with accessories and external power supply

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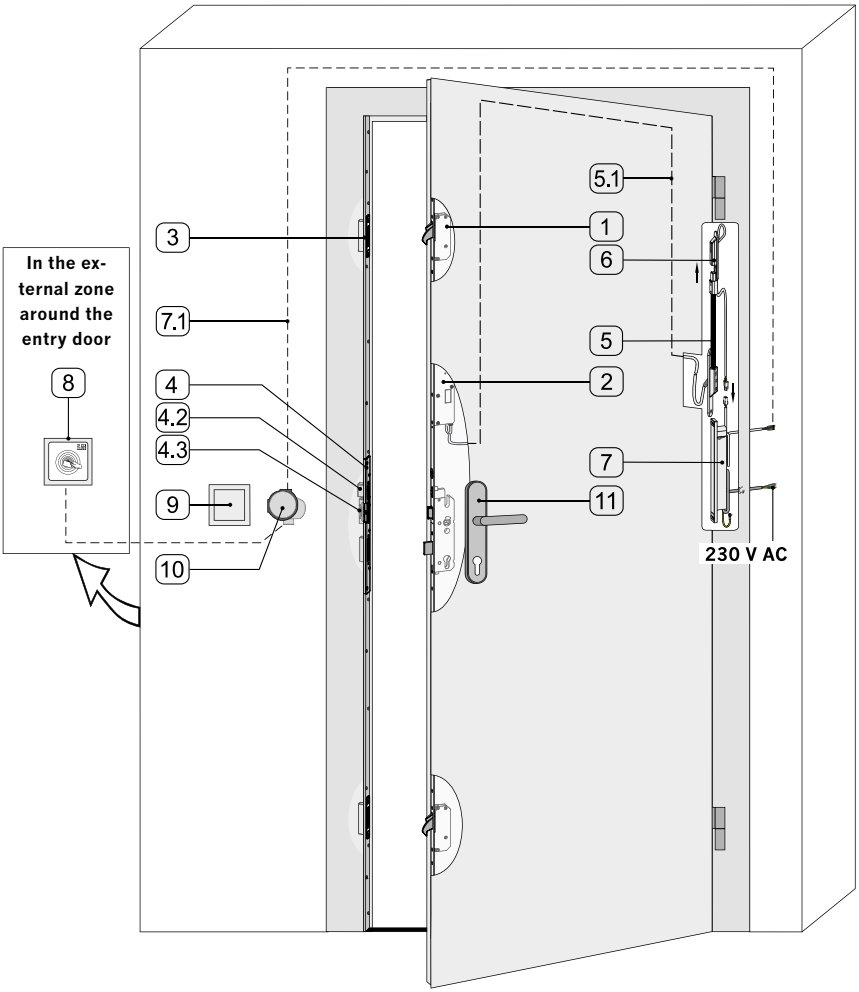

Figure 2-2: blueMatic EAV with accessories and frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A

No.	Name	Included in standard delivery of the security lock	MUST! Mandatory*	Available as an accessory or as an option	Supplied by customer/ not included in standard delivery
1	autoLock AV3 (Automatic locking system STV-AV3...)	X	X		
2	Motor housing EAV3		X	X	
3	Keep rail STV-SL.../extension keep set STV-Grt. SL.../single keeps STV-SB...		X	X	
4	Center keep STV-SB FRA ... AV...		X	X	
4.2	Magnetic trigger			X	
4.3	Daytime latch TaFa			X	
5 5.1	Cable transition sash part STV-KÜ-T1 FT 2M/3,5M Cable at the sash side 2 m or 3.5 m long, plug for motor housing included		X	X	
6	Frame part (suitable the sash part STV-KÜ...)			X	
6a 6.1	**Figure 2-1:** STV-KÜ-T1 RT KABEL 4M including cable 4 m for connection of external access controls, eg. intercom, potential-free contact			X	
6b	**Figure 2-2:** STV-KÜ-T1 RT KABEL 0,6M RNT with plug connection to the frame power supply 12 V DC (optional)			X	
7	Power supply			X	
7a	**Figure 2-1:** STV-HT NETZTEIL 12 V DC/2 A			X	
7b 7.1	**Figure 2-2:** STV-NETZTEIL RAHM. 12 V DC 1,5 A (2A/2S) (optional) including cable for connection of external access controls, eg. intercom, potential-free contact			X	
8	Access control system (shown: antenna of the transponder set) **NOTICE! Only install the antenna of the transponder set in the external zone around the entry door!**			X	
9	"Open" button				X
10	Flush-type box				X
11	Handle				X

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

1 autoLock AV3 Automatic locking system

Optional electrical motor housing (for electronic latch & hook retraction)

The autoLock AV3 from Winkhaus is an automatic multipoint locking system with independently acting hooks for claw action and sealing elements for a dynamic contact pressure.
This is prepared for installation of the profile cylinder corresponding to EN 1303 (corrosion class 3) with closed position of ± 45°, in each case with smooth-running free-to-turn function or rigid closed position.

Part Description	DIN right	DIN left
STV-AV3-F1660 L79/35 A9 92/8 M2 RS/LS MC	5005446	5005445
STV-AV3-F1660 L79/35 A9 92/8 M2 RS/LS PAL MC	5005448	5005447
STV-AV3-F1660 L79/35 A9 94/8 KABA M2 RS/LS MC	5022444	5022445
STV-AV3-F1660 L79/40 A9 92/8 M2 RS/LS MC	5005466	5005465
STV-AV3-F1660 L79/40 A9 92/8 M4 RS/LS MC	5042994	5042995
STV-AV3-F1660 L79/45 A9 92/8 M2 RS/LS MC	5005472	5005471
STV-AV3-F1660 L79/45 A9 92/8 M2 RS/LS GR	5014286	5014285
STV-AV3-F1660 L79/45 A9 92/8 M2K RS/LS MC	5018716	5018715
STV-AV3-F1660 L79/45 A9 92/10 M2 RS/LS MC	5005470	5005469
STV-AV3-F1660 L79/45 A9 94/8 KABA M2 RS/LS MC	5008864	5008863
STV-AV3-F1660 L79/50 A9 92/8 M2 RS/LS MC	5010013	5010014
STV-AV3-F1660 L79/50 A9 92/10 M2 RS/LS MC	5007837	5007836
STV-AV3-F1660 L79/50 A9 94/8 KABA M2 RS/LS MC	5016748	5016749
STV-AV3-F1660 L79/50 A9 94/10 KABA M2 RS/LS MC	5014960	5014961
STV-AV3-F1660 L79/55 A9 92/8 M2 RS/LS MC	5005474	5005473
STV-AV3-F1660 L79/55 A9 92/10 M2 RS/LS MC	5014875	5014874
STV-AV3-F1660 L79/55 A9 94/8 KABA M2 RS/LS MC	5022448	5022450
STV-AV3-F1660 L79/65 A9 92/8 M2 RS/LS MC	5005477	5005476
STV-AV3-F1660 L79/65 A9 92/10 M2 RS/LS MC	5007835	5007833
STV-AV3-F1660 L79/65 A9 92/10 M2 RS/LS GR	5038675	5038676
STV-AV3-F1660 L79/65 A9 94/8 KABA M2 RS/LS MC	5009371	5009370
STV-AV3-F1660 L79/80 A9 94/8 KABA M2 RS/LS MC	5009373	5009372
STV-AV3-F16162 L79/35 A9 92/8 M2 RS/LS MC	5031843	5031844
STV-AV3-F16162 L79/40 A9 92/8 M2 RS/LS MC	5025840	5025842
STV-AV3-F16162 L79/45 A9 92/8 M2 RS/LS MC	5010689	5010688
STV-AV3-F1662 L79/35 A9 92/8 M2 RS/LS MC	5014935	5014936
STV-AV3-F1662 L79/35 A9 92/8 M2 RS/LS PAL MC	5006068	5006067
STV-AV3-F1662 L79/35 A9 94/8 KABA M2 RS/LS MC	5022446	5022447
STV-AV3-F1662 L79/40 A9 92/10 M2 RS/LS MC	5014870	5014871
STV-AV3-F1662 L79/40 A9 92/8 M2 RS/LS MC	5014806	5014807
STV-AV3-F1662 L79/40 A9 92/8 M2 RS/LS GR	5017263	5017264
STV-AV3-F1662 L79/45 A9 92/8 M2 RS/LS MC	5007906	5007905
STV-AV3-F1662 L79/45 A9 94/8 KABA M2 RS/LS MC	5011749	5011748

1 autoLock AV3 Automatic locking system

Part Description	DIN right	DIN left
STV-AV3-F1662 L79/45 A9 92/10 M2 RS/LS MC	5007904	5007903
STV-AV3-F1662 L79/50 A9 92/8 M2 RS/LS MC	5010015	5010016
STV-AV3-F1662 L79/50 A9 94/8 KABA M2 RS/LS MC	5016752	5016753
STV-AV3-F1662 L79/55 A9 92/8 M2 RS/LS MC	5014941	5014942
STV-AV3-F1662 L79/65 A9 94/8 KABA M2 RS/LS MC	5016750	5016751
STV-AV3-F1662 L79/80 A9 92/10 M2 RS/LS MC	5041994	5041995
STV-AV3-F1667 L79/35 A9 92/8 M2 RS/LS MC	5014948	5014949
STV-AV3-F1667 L79/45 A9 92/8 M2 RS/LS MC	5008032	5008031
STV-AV3-F1667 L79/50 A9 92/8 M2 RS/LS MC	5018895	5018896
STV-AV3-F1667 L79/55 A9 92/8 M2 RS/LS MC	5018898	5018897
STV-AV3-F1667 L79/65 A9 92/8 M2 RS/LS MC	5044354	5044355
STV-AV3-F1667 L79/80 A9 92/10 M2 RS/LS MC	5041992	5041993
STV-AV3-F1669 L79/35 A9 92/8 M2 RS/LS MC	5007898	5007897
STV-AV3-F1669 L79/40 A9 92/8 M2 RS/LS MC	5007900	5007899
STV-AV3-F1669 L79/45 A9 92/8 M2 RS/LS MC	5006136	5006135
STV-AV3-F1669 L79/45 A9 92/8 M2K RS/LS MC	5018717	5018718
STV-AV3-F1669 L79/45 A9 94/8 KABA M2 RS/LS MC	5011747	5011746
STV-AV3-F1669 L79/45 A9 92/10 M2 RS/LS MC	5007902	5007901
STV-AV3-F1669 L79/50 A9 92/8 M2 RS/LS MC	5010017	5010018
STV-AV3-F1669 L79/55 A9 92/8 M2 RS/LS MC	5007894	5007892
STV-AV3-F1669 L79/65 A9 92/8 M2 RS/LS MC	5007896	5007895
STV-AV3-F1669 L79/65 A9 94/8 KABA M2 RS/LS MC	5016755	5016754
STV-AV3-F16770 L79/35 A9 92/8 M2 RS/LS PAL MC	5025247	5025248
STV-AV3-F16770 L79/40 A9 92/8 M2 RS/LS MC	5044524	5044525
STV-AV3-F16770 L79/45 A9 92/8 M2 RS/LS MC	5015462	5015461
STV-AV3-F16770162 L79/35 A9 92/8 M2 RS/LS MC	5025322	5025323
STV-AV3-F1677062 L79/35 A9 92/8 M2 RS/LS PAL MC	5025249	5025310
STV-AV3-F1677062 L79/40 A9 92/8 M2 RS/LS MC	5034173	5034179
STV-AV3-F1677062 L79/40 A9 92/8 M2 RS/LS GR	5026062	5026063
STV-AV3-F1677062 L79/45 A9 92/8 M2 RS/LS MC	5015464	5015463
STV-AV3-F167769 L79/35 A9 92/8 M2 RS/LS MC	5025311	5025313
STV-AV3-F167769 L79/40 A9 92/8 M2 RS/LS MC	5034199	5034200
STV-AV3-F167769 L79/40 A9 92/8 M2 RS/LS GR	5026067	5026068
STV-AV3-F2060 L79/35 A9 92/8 M2 RS/LS MC	5007840	5007839
STV-AV3-F2060 L79/40 A9 92/8 M2 RS/LS MC	5014865	5014864
STV-AV3-F2060 L79/45 A9 92/8 M2 RS/LS MC	5006080	5006079
STV-AV3-F2060 L79/45 A9 92/10 M2 RS/LS MC	5014848	5014849
STV-AV3-F2060 L79/45 A9 94/8 KABA M2 RS/LS MC	5011314	5011313
STV-AV3-F2060 L79/50 A9 92/8 M2 RS/LS MC	5014841	5014842
STV-AV3-F2060 L79/55 A9 92/8 M2 RS/LS MC	5006083	5006082
STV-AV3-F2060 L79/55 A9 92/8 M2 RS/LS GR	5008988	5008989
STV-AV3-F2060 L79/55 A9 94/8 KABA M2 RS/LS MC	5017283	5017284
STV-AV3-F2060 L79/55 A9 92/10 M2 RS/LS MC	5014869	5014868
STV-AV3-F2060 L79/60 A9 92/10 M2 RS/LS MC	5006103	5006101
STV-AV3-F2060 L79/65 A9 92/8 M2 RS/LS MC	5014863	5014862

1 autoLock AV3 Automatic locking system

Part Description	DIN right	DIN left
STV-AV3-F2060 L79/65 A9 92/8 M2 RS/LS GR	5019405	5019406
STV-AV3-F2060 L79/65 A9 94/8 KABA M2 RS/LS MC	5016759	5016758
STV-AV3-F2060 L79/65 A9 92/10 M2 RS/LS MC	5006106	5006105
STV-AV3-F2060 L79/65 A9 92/10 M2 RS/LS GR	5012307	5012306
STV-AV3-F2060 L79/80 A9 94/8 KABA M2 RS/LS MC	5017285	5017286
STV-AV3-F2060 L79/80 A9 92/10 M2 RS/LS MC	5006108	5006107
STV-AV3-F2060 L79/80 A9 92/10 M2 RS/LS GR	5012305	5012304
STV-AV3-F2062 L79/40 A9 92/8 M2 RS/LS MC	5039366	5039367
STV-AV3-F2062 L79/45 A9 92/8 M2 RS/LS MC	5014400	5014368
STV-AV3-F2062 L79/45 A9 94/8 KABA M2 RS/LS MC	5038507	5038508
STV-AV3-F2062 L79/50 A9 92/8 M2 RS/LS MC	5030938	5030939
STV-AV3-F2062 L79/55 A9 92/8 M2 RS/LS MC	5015484	5015483
STV-AV3-F2062 L79/55 A9 92/8 M2 RS/LS GR	5020105	5020106
STV-AV3-F2062 L79/55 A9 92/10 M2 RS/LS MC	5014822	5014823
STV-AV3-F2062 L79/65 A9 94/8 KABA M2 RS/LS MC	5017300	5017301
STV-AV3-F2062 L79/65 A9 92/10 M2 RS/LS MC	5014958	5014959
STV-AV3-F2069 L79/45 A9 92/8 M2 RS/LS MC	5007999	5007998
STV-AV3-F2069 L79/45 A9 94/8 KABA M2 RS/LS MC	5038509	5038600
STV-AV3-F2069 L79/50 A9 92/8 M2 RS/LS MC	5030940	5030941
STV-AV3-F2069 L79/55 A9 92/8 M2 RS/LS MC	5008001	5008000
STV-AV3-F2069 L79/60 A9 92/10 M2 RS/LS MC	5008003	5008002
STV-AV3-F2069 L79/65 A9 94/8 KABA M2 RS/LS MC	5017307	5017308
STV-AV3-F2069 L79/65 A9 92/10 M2 RS/LS MC	5008010	5008009
STV-AV3-F2069 L79/65 A9 92/10 M2 RS/LS GR	5008006	5008004
STV-AV3-F2070 L79/35 A9 92/8 M2 RS/LS MC	5008189	5008188
STV-AV3-F2070 L79/45 A9 92/8 M2 RS/LS MC	5008185	5008184
STV-AV3-F2070 L79/55 A9 92/8 M2 RS/LS MC	5008187	5008186
STV-AV3-F2070 L79/55 A9 92/8 M2 RS/LS GR	5020103	5020104
STV-AV3-F2070 L79/55 A9 92/10 M2 RS/LS MC	5014952	5014953
STV-AV3-F2070 L79/65 A9 94/8 KABA M2 RS/LS MC	5024235	5024237
STV-AV3-F2070 L79/65 A9 92/10 M2 RS/LS MC	5006119	5006118
STV-AV3-F2070 L79/80 A9 94/8 KABA M2 RS/LS MC	5032121	5032122
STV-AV3-F20770 L79/50 A9 92/8 M2 RS/LS MC	5018509	5018521
STV-LB AV3-F2077062 L79/55 A9 92/8 M2 RS/LS MC	5034193	5034194
STV-LB AV3-F207769 L79/55 A9 92/8 M2 RS/LS MC	5034195	5034196
STV-AV3-F2460 L79/35 A9 92/8 M2 RS/LS MC	5006133	5006132
STV-AV3-F2460 L79/35 A9 92/8 M2 RS/LS GR	5006131	5006130
STV-AV3-F2460 L79/35 A9 92/8 M2 RS/LS EST	5020316	5020317
STV-AV3-F2460 L79/40 A9 92/8 M2 RS/LS MC	5007844	5007843
STV-AV3-F2460 L79/45 A9 92/8 M2 RS/LS MC	5007849	5007847
STV-AV3-F2460 L79/45 A9 94/8 KABA M2 RS/LS MC	5011505	5011504
STV-AV3-F2460 L79/45 A9 92/10 M2 RS/LS MC	5007846	5007845
STV-AV3-F2460 L79/50 A9 92/8 M2 RS/LS MC	5014939	5014940
STV-AV3-F2460 L79/55 A9 92/8 M2 RS/LS MC	5030628	5030629
STV-AV3-F2460 L79/65 A9 92/8 M2 RS/LS MC	5014881	5014880

1 autoLock AV3 Automatic locking system

Part Description	DIN right	DIN left
STV-LD AV3-F24162 L79/35 A9 92/8 M2 RS/LSGR	5047938	5047939
STV-AV3-F2462 L79/35 A9 92/8 M2 RS/LS MC	5015486	5015485
STV-LB AV3-F2462 L79/35 A9 92/8 M2 RS/LSEST	5020314	5020315
STV-AV3-F2462 L79/40 A9 92/8 M2 RS/LS MC	5014937	5014938
STV-AV3-F2462 L79/45 A9 92/8 M2 RS/LS MC	5014433	5014432
STV-AV3-F2462 L79/45 A9 92/10 M2 RS/LS MC	5014435	5014434
STV-AV3-F2469 L79/35 A9 92/8 M2 RS/LS MC	5008021	5008020
STV-AV3-F2469 L79/35 A9 92/8 M2 RS/LS GR	5008019	5008018
STV-AV3-F2469 L79/45 A9 92/8 M2 RS/LS MC	5014465	5014464
STV-AV3-F2469 L79/45 A9 92/10 M2 RS/LS MC	5008023	5008022
STV-AV3-U22116 L79/35 A9 92/8 M2 RS/LS GR	5014889	5014900
STV-AV3-U2293 L79/35 A9 92/8 M2 RS/LS MC	5014931	5014932
STV-AV3-U2293 L79/45 A9 92/8 M2 RS/LS GR	5008066	5008065
STV-LB AV3-U2294 L79/45 A9 92/8 M2 RS/LS GR	5013199	5013198
STV-AV3-U24184 L79/45 A9 92/8 M2 RS/LS MC	5007549	5007551
STV-AV3-U24184 L79/45 A9 92/8 M2 RS/LS GR	5023926	5023927
STV-AV3-U24184 L79/55 A9 92/8 M2 RS/LS MC	5044318	5044319
STV-AV3-U24185 L79/34 A9 92/8 M2 RS/LS MC	5006138	5006137
STV-AV3-U24185 L79/44 A9 92/8 M2 RS/LS MC	5006141	5006140
STV-AV3-U24385 L79/34 A9 92/8 M2 RS2 MC	5013205	
STV-AV3-U24385 L79/34 A9 92/8 M2 LS1 MC		5013204
STV-AV3-U2460 L79/35 A9 92/8 M2 RS/LS MC	5006152	5006151
STV-AV3-U2460 L79/35 A9 92/8 M2 RS/LS GR	5006150	5006149
STV-AV3-U2460 L79/35 A9 92/8 M2 RS/LS EST	5006146	5006145
STV-AV3-U2460 L79/40 A9 92/8 M2 RS/LS MC	5014860	5014861
STV-AV3-U2460 L79/40 A9 92/8 M2 RS/LS GR	5032405	5032406
STV-AV3-U2460 L79/45 A9 92/10 M2 RS/LS MC	5008069	5008067
STV-AV3-U2460 L79/45 A9 92/8 M2 RS/LS MC	5006156	5006155
STV-AV3-U2460 L79/45 A9 92/8 M2 RS/LS GR	5011500	5011501
STV-AV3-U2460 L79/45 A9 94/8 KABA M2 RS/LS MC	5009971	5009972
STV-AV3-U2460 L79/50 A9 92/8 M2 RS/LS MC	5006161	5006160
STV-AV3-U2460 L79/50 A9 94/8 KABA M2 RS/LS MC	5009973	5009974
STV-AV3-U2460 L79/50 A9 92/10 M2 RS/LS MC	5022947	5022948
STV-AV3-U2460 L79/55 A9 92/8 M2 RS/LS MC	5020131	5020132
STV-AV3-U2460 L79/55 A9 92/8 M2 RS/LS GR	5006229	5006228
STV-AV3-U2460 L79/55 A9 92/10 M2 RS/LS MC	5014911	5014912
STV-AV3-U2460 L79/60 A9 92/8 M2 RS/LS MC	5014844	5014845
STV-AV3-U2460 L79/65 A9 92/8 M2 RS/LS MC	5014866	5014867
STV-AV3-U2462 L79/35 A9 92/8 M2 RS/LS MC	5011403	5011402
STV-AV3-U2462 L79/35 A9 92/8 M2 RS/LS GR	5023168	5023169
STV-AV3-U2462 L79/40 A9 92/8 M2 RS/LS GR	5032407	5032408
STV-AV3-U2462 L79/45 A9 92/8 M2 RS/LS MC	5008191	5008190
STV-AV3-U2462 L79/45 A9 92/8 M2 RS/LS GR	5017257	5017258
STV-AV3-U2462 L79/45 A9 94/8 KABA M2 RS/LS MC	5009975	5009976
STV-AV3-U2462 L79/45 A9 92/10 M2 RS/LS MC	5023003	5023004

1 autoLock AV3 Automatic locking system

Part Description	DIN right	DIN left
STV-AV3-U2462 L79/50 A9 92/8 M2 RS/LS MC	5009375	5009374
STV-AV3-U2462 L79/50 A9 92/10 M2 RS/LS MC	5022949	5023000
STV-AV3-U2462 L79/55 A9 92/8 M2 RS/LS MC	5020687	5020688
STV-AV3-U2469 L79/35 A9 92/8 M2 RS/LS MC	5008030	5008029
STV-AV3-U2469 L79/35 A9 92/8 M2 RS/LS GR	5008028	5008024
STV-AV3-U2469 L79/40 A9 92/8 M2 RS/LS GR	5032409	5032410
STV-AV3-U2469 L79/45 A9 92/8 M2 RS/LS MC	5008076	5008075
STV-AV3-U2469 L79/45 A9 92/8 M2 RS/LS GR	5017259	5017260
STV-AV3-U2469 L79/45 A9 94/8 KABA M2 RS/LS MC	5009979	5009980
STV-AV3-U2469 L79/45 A9 92/10 M2 RS/LS MC	5023005	5023006
STV-AV3-U2469 L79/50 A9 92/8 M2 RS/LS MC	5008078	5008077
STV-AV3-U2469 L79/50 A9 94/8 KABA M2 RS/LS MC	5009981	5009982
STV-AV3-U2469 L79/50 A9 92/10 M2 RS/LS MC	5023001	5023002
STV-AV3-U2469 L79/55 A9 92/8 M2 RS/LS MC	5020133	5020134
STV-AV3-U2469 L79/65 A9 92/8 M2 RS/LS MC	5045178	5045179
STV-AV3-U2471 L79/35 A9 92/8 M2 RS/LS MC	5008071	5008070
STV-AV3-U2471 L79/35 A9 92/8 M2 RS/LS GR	5006204	5006203
STV-AV3-U2471 L79/35 A9 92/8 M2 RS/LS EST	5014877	5014878
STV-AV3-U2471 L79/40 A9 92/8 M2 RS/LS MC	5023206	5023207
STV-AV3-U2471 L79/45 A9 92/8 M2 RS/LS MC	5014884	5014885
STV-AV3-U2471 L79/45 A9 92/8 M2 RS/LS GR	5006207	5006206
STV-AV3-U2471 L79/55 A9 92/8 M2 RS/LS MC	5008073	5008072
STV-AV3-U2471 L79/65 A9 92/8 M2 RS/LS MC	5014883	5014882
STV-AV3-U2471 L79/65 A9 92/8 M2 RS/LS EST	5014886	5014887
STV-AV3-U247169 L79/55 A9 92/8 M2 RS/LS MC	5008180	5008119
STV-AV3-U247169 L79/35 A9 92/8 M2 RS/LS GR	5008118	5008117
STV-AV3-U2480 L79/45 A9 92/10 M2 RS/LS MC	5008193	5008192
STV-AV3-U2480 L79/50 A9 92/8 M2 RS/LS MC	5015506	5015505
STV-AV3-U2488 L79/35 A9 92/8 M2 RS/LS MC	5014946	5014947
STV-AV3-U2488 L79/35 A9 92/8 M2 RS/LS GR	5014918	5014930

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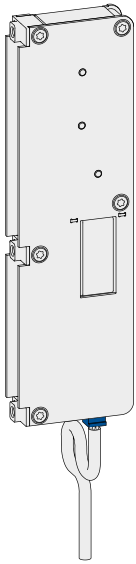
2 Motor housing



Motor housing for powered unlocking, including control, but without cable

- for transponder or wireless remote control
- switching unit for swing door opener via floating contact
- available separate (for retrofitting mechanical locks autoLock AV3 and autoLock AV2)

Motor housings are suitable for motor extension of the autoLock AV3 (also for autoLock AV2) up to blueMatic EAV3 (blueMatic EAV2).

STV-MOTOR HOUSING EAV3 BL [1]	5009320
STV-MOTOR HOUSING EAV3 DREHTÜR BL [1] [2]	5009324

[1] to retrofit simply screw to the autoLock AV... (automatic locking system)
CAUTION! Pay attention to left-handed thread!

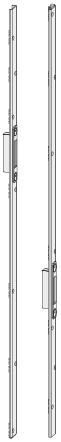
[2] incl. signal (floating contact) for swing door opener

NOTICE!

Please observe the following instructions when using a swing door opener:

- **Ensure that the motor can open the closing leaf at any time.**
- **After unlocking, the control unit sends a signal to the swing door opener which must them open out immediately.**
- **If the automatic door drive is triggered at another point of time, malfunctions can be caused.**
- **If the main hook is unlocked manually, the door may not be actuated electrically.**

3 Keep rail/extension keep set/single keeps



Select the corresponding standard frame parts in the current program manual (keep rail/single keeps/alternatively extension keep set):

Program Manual Timber/PVC/ALU	4934767
Program Overview keep Timber	Group 2
Program Overview keep PVCu/Vinyl	Group 2
Program Overview keep Aluminum	Group 2

Example: profile INOUTIC system Prestige ➜ extension keep set STV-Grt. SL U26-192
When ordering always indicate the DIN direction RS or LS.

4 Center keep FRA ... AV ...

Center keep for latch and deadbolt for retrofitting of magnetic trigger and daytime latch. Designed for use with PVCu, Aluminum and Timber/Composite entrance doors.

Select the respective keeps according to the profile systems in the current program manual (see program overview - group 2).

4.1 Center keep FRA ... AV3 ...

Center keep for latch and deadbolt with magnetic trigger and integrated daytime latch. Designed for use with PVCu, Aluminum and Timber/Composite entrance doors.

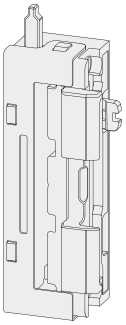
Select the respective keeps according to the profile systems in the current program manual (see program overview - group 2).

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

Contact-free magnetic release for autoLock AV3. Can be retrofitted in center keeps FRA ... AV ... with magnet hole.

STV-G1 MAGNETIC TRIGGER 13 MV AV3	5009111
STV-G1 MAGNETIC TRIGGER 13 UMV AV3	5009110
STV-G1 MAGNETIC TRIGGER 9 MV AV3	5014379
STV-G1 MAGNETIC TRIGGER 9 UMV AV3	5009109

4.3 Daytime latch TaFa



Fold-down daytime latch with mechanical adjustability by means of the blue Winkhaus lever.

Variants

a) Daytime latch for standard doors

STV-DAYTIME LATCH 9/91 TAFA FA RS	5006561
STV-DAYTIME LATCH 9/91 TAFA FA LS	5006562
STV-DAYTIME LATCH 10/9 TAFA FA RS	5006563
STV-DAYTIME LATCH 10/9 TAFA FA LS	5006564

b) Daytime latch with “reinforced spring” for heavy-duty doors (in case of increased wind loads or pressure)

STV-DAYTIME LATCH 9/91 TAFA FA STARK RS	5015109
STV-DAYTIME LATCH 9/91 TAFA FA STARK LS	5015108
STV-DAYTIME LATCH 10/9 TAFA FA STARK RS	5015111
STV-DAYTIME LATCH 10/9 TAFA FA STARK LS	5015110

c) Latch plate (accessory/spare part)

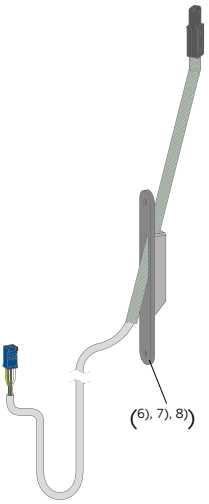
STV-LATCH PLATE A-9/91 TAFA FA MC (standard)	5011393
STV-LATCH PLATE A-10/9 TAFA FA MC (less pressure)	5011392

5 Cable transition STV-KÜ-T1 FT (sash part)

To transmit the current from the frame to the sash, so-called cable transitions (details in the following text) or so-called tappet contacts (see separate installation, operating and maintenance instructions for tappet contact) can be used.

CAUTION!

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



Plug-in and concealed in cable transition

- Inserted by plug-in function, with retaining screws 3 x 20 mm (contained in packaging sash part)
- Sash part with spring sleeve in different versions

1) STV-KÜ-T1 FT 2 M with 2 m cable + plug for motor
2) STV-KÜ-T1 FT 3,5 M with 3.5 m cable + plug for motor
3) STV-KÜ-T1 SET FT INTEGR-EAV FT 1 M + KABEL 3 M with 1 m cable, end of the cable with 8-pole plug (for control unit ekey home integra) + connecting cable for motor 3-wire
4) STV-KÜ-T1 SET FT ZK-EAV FT 4 M + KA 3,5 M with 3.5 m cable + 5-pole plug for connection with Y-cable INSIDE EAV 0.5 m + Y-Kabel INSIDE EAV 0.5 m
5) STV-KÜ-T1 SET FT ZK-SO + EAV FT 1M + KABEL 3 M, Set with sash part KÜ-T1-SOMMER-EAV + connecting cable for motor SOMMER 3 m

- Frame part 1 with 4 m cable and cable end sleeves or alternatively frame part 2 with 0.6 m cable and plug for frame power supply
- Installed concealed in the airgap
- Electric interface between sash and frame with 6 wires
- Colour 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 wooden doors
- **Recommendation:** It is recommended that the cover plate (depends on the faceplate and the material type of timber, PVCu/plastic or aluminum) conceals the routing for the required cable reserves to prevent possible cable damage.

Sash part STV-KÜ-T1 FT 2 M [1)]	5040501
Sash part STV-KÜ-T1 FT 3,5 M [2)]	5040505
Sash part STV-KÜ-T1 SET FT INTEGR-EAV FT 1 M + KABEL 3 M [3)]	5040511
Sash part STV-KÜ-T1 SET FT ZK-EAV FT 4 M + KA 3,5 M [4)]	5040508
Sash part STV-KÜ-T1 SET FT ZK-SO + EAV FT 1 M + KABEL 3 M [5)]	5040513
Frame part STV-KÜ-T1 RT KABEL 4 M	5040503
Frame part STV-KÜ-T1 RT KABEL 0,6 M RNT	5040504
STV-COVER PLATE KÜ-T1 FT F16 R8 MC (for sash) [6)]	4990670
STV-COVER PLATE KÜ-T1 FT F20 R10 MC (for sash) [7)]	4990671
STV-LF COVER PLATE KÜ-T1 FT F24 KANT MC (for sash) [8)]	5018556
STV-LF COVER PLATE KÜ-T1 RT F24 X 350 MC (for frame) [9)]	5028782

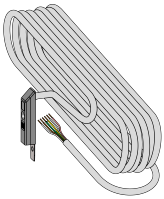
1) for use with EAV (if applicable BM), sash part 2 m cable + plug for motor housing
2) for use with EAV (if applicable BM), sash part 3.5 m cable + plug for motor housing
3) for use with EAV and fingerprint ekey home integra, sash part with 1 m cable, end of the cable with 8-pole plug (for control unit ekey home integra) + connecting cable for motor 3-wire
4) for use with EAV with sash side access control systems (eg. Fingerprint IDENCOM BioKey INSIDE or ekey home SE micro), sash part with 3.5 m cable + 5-pole plug for connection with Y-cable + Y-Kabel INSIDE EAV 0.5 m
5) for use with EAV with Sommer fingerprint ENTRAsys FD, Set with sash part KÜ-T1-SOMMER-EAV + connecting cable for motor SOMMER 3 m
6) Cover plate for sash, flat faceplate 16 mm, round ends R8, length 126 mm, suitable for PVCu (timber if necessary)
7) Cover plate for sash, flat faceplate 20 mm, round ends R10, length 130 mm, suitable for timber (PVCu if necessary)
8) Cover plate for sash, flat faceplate 24 mm, square, length 134 mm, suitable for ALU (PVCu if necessary)
9) 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 heroal D92 UD

NOTICE!

If no separable cable transition (eg. STV-KÜ M1188) or no Winkhaus cable transition is used, then the STV-cable 6 m for motor housing (2522881) must be used.

6 Frame part

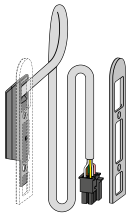
6a Frame part for external power supply



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

STV-KÜ-T1 RT KABEL 4M	5040503

6b Frame part for frame power supply

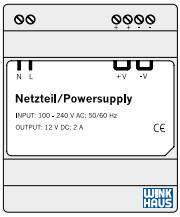


Frame part with 0.6 m cable and plug for frame power supply inclusive cover strip STV-KÜ-T1 RT R8, to cover the profile hole on the frame side

STV-KÜ-T1 RT KABEL 0,6M RNT	5040504

7 Power supply

7a External power supply



Power supply unit for blueMatic EAV with 100 - 240 V, 50/60 Hz, 12 V DC, 2 A, to be installed on a top hat mounting rail

STV-HT POWER SUPPLY 12 V DC/2A	2469777

NOTICE! The Winkhaus power supply 12 V is designed for the operation with Winkhaus locks. In exceptional cases small consumers (eg. fingerprint in the door element) can be used with this power supply - up to an additional current requirement of max. 0.5 A and the voltage requirement must match the power supply (12 V DC).

NOTICE! Operation of a second EAV with the same power supply is not possible. A separate power supply must be used for each lock.

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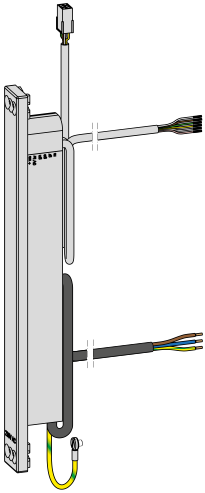
NOTICE! Unless you are using a Winkhaus power supply unit, please keep in mind the following information:

- **exclusively for blueMatic EAV, 12 V DC (direct current), stabilized, min. 1,5 A**
- **For further external loads (e.g. intercom, LED lighting, video systems etc.), separate or designed power supplies must be used.**

7b 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 (230 V) has to be made.

- 4 m cable for connection 230 V AC with cable end sleeves
- 0.4 m cable with eyelet (M4) for earthing
- 0.2 m cable with plug for connection with frame part STV-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)

STV-POWER SUPPLY RAHM. 12 V DC 1,5 A (2A/2S)	5038587

CAUTION! Cable for external signal at frame power supply is current (12 V DC), do not connect external voltage!

Insulated in condition as delivered; insulation is MANDATORY when shortened (e.g. adaptation to the installation situation), if not necessary!

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

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

No external voltage on output for external signals.

CAUTION! With the combination blueMatic EAV + access control, the power requirement must not to be fraught more than 2 A! With the combination with frame power supply STV-NETZTEIL RAHM. 12 V DC the power supply should be charged max. permanently with 1,5 A and max. 2 A will be charged for 2 s!

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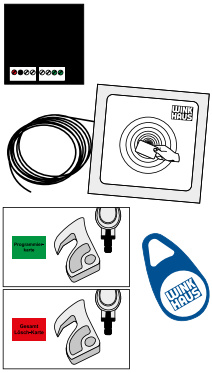
8 Access control systems

From the outside the door is opened via the access control system (transponder, wireless remote control).

NOTICE!

VdS acceptance: Only with VdS-tested access control systems!

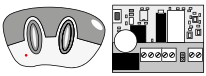
Transponderset EAV



- 1 reader/control unit (for flush-type box)
  - mounting of the reader on the inside
- 1 antenna for exposed installation (90 x 90 x 13 mm, color white), cable of 2.5 m fixed at the antenna
- 1 antenna sticker, weatherproof, resistant to UV light
  - mounting of the transponder antenna on the outside
- 3 transponder chips (blue chips are unprogrammed)
- 2 progamming cards transponder (programming card = green; delete-all card = red)

STV-HT TRANSPONDERSET T02 EAV BL	2410265

Wireless remote control set



- 1 wireless receiver (to be inserted in the flush-type box)
  - mounting of the remote control receiver on the inside
- 3 remote controls (programmed, color: dark grey/grey)
- programming instruction + connection diagram

STV-HT WIRELESS REMOTE CONTROL F02 ANTHR. SET 3 + 1	2410273

NOTICE!

You have to connect the following parts directly with the door opener when using/ connecting a door opener: varistor at AC/free-wheeling diode at DC.
Reason: Protection of the relay from wear.

3 Installation

3.1 Routing details

For installing the blueMatic EAV it is required to rout out for standard three-point locking system and additionally the motor housing, as shown in the following diagrams.

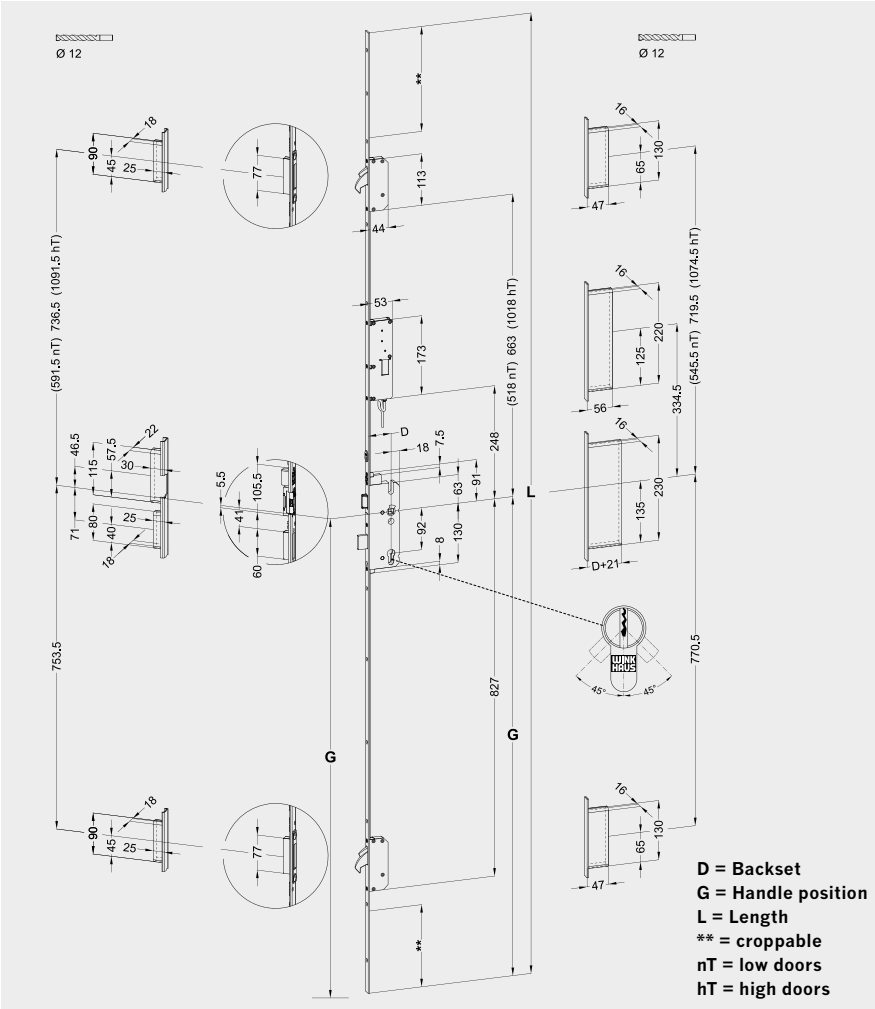
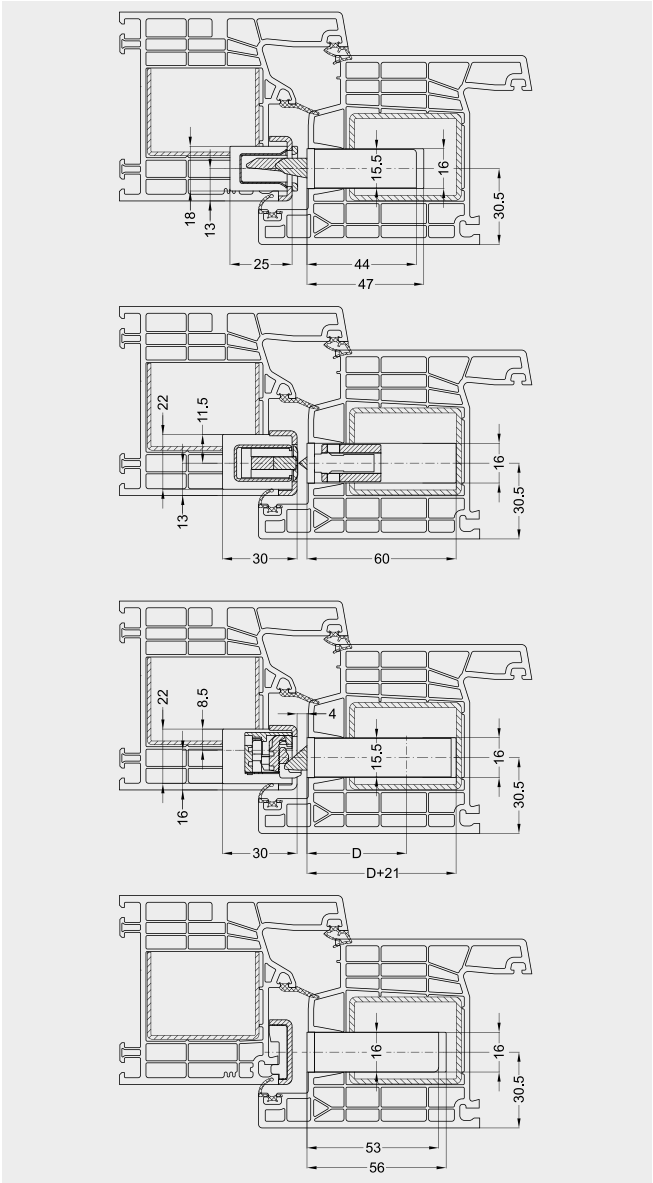


Figure 3.1-1: Dimensions for blueMatic EAV



Situation hook AV3

Situation magnetic trigger AV3

Situation latch/ daytime latch (TaFa)

Situation motor housing

Figure 3.1-2: installation situations for blueMatic EAV

NOTICE!

a) The routing for the main lock housing must be 16 mm as minimum to provide for free motion of the drive rod! Check the door eurogroove for sprue so that the free motion of the rod is not impeded!

b) It is imperative to use always with a lever/fixed pad handle set (lever inside, door knob outside)

3.2 Cable transition STV-KÜ-T1 FT (sash- + frame part)

Empfehlung: It is recommended that the cover plate 4 (depends on the faceplate and the material type of timber, PVCu/plastic or aluminum) conceals the routing for the required cable reserves to prevent possible cable damage. For timber doors use the cover plate, to hide the routering for the cable hole, and to prevent cable damage. The routing for this wire hole should be approx 50 x 95 mm.

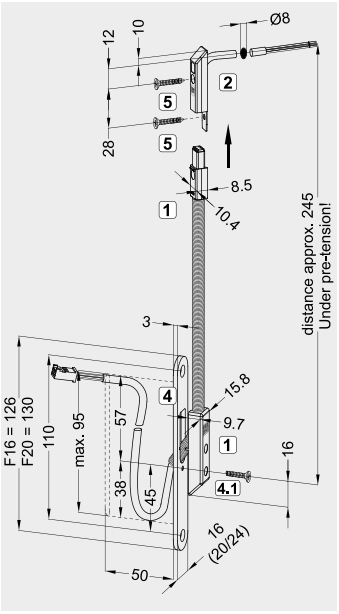


Figure 3.2-1: STV-KÜ-T1 FT with cover plate and frame part 1

Installation sequence

Frame part 1 2 (Figure 1):

- Drill a hole with a Ø 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 2 with the fitting screw 5 Ø 3 x 20 mm

Frame part 2 3 (Figure 2):

- Drill a hole with a Ø 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 STV-COVERING KÜ-T1 RT R8
- Fasten the frame part 2 3 with the fitting screw 5 Ø 3 x 20 mm

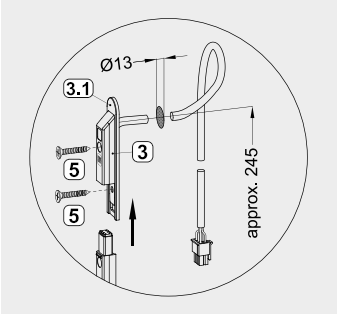


Figure 3.2-2: Detail frame part 2

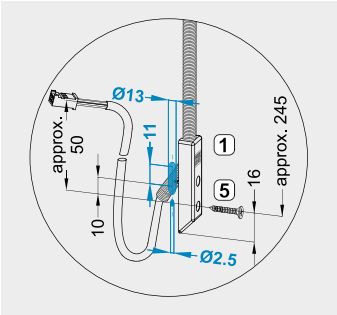


Figure 3.2-3: Detail STV-KÜ-T1 FT without cover plate

[1] Sash part
[2] Frame part 1
[3] Frame part 2
[3.1] Cover strip STV-KÜ-T1 RT R8
[4] Cover plate
(F16 = L 126 mm R8;
F20 = L 130 mm R10;
F24 = L 134 mm square)
[4.1] Screw M3 x 12 (includet in delivery from cover plate)
[5] Fitting screw (includet in delivery from sash part)

Sash part [1] with cover plate [4] (Figure 1):

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

Sash part [1] without cover plate (Figure 3):

- Drill a hole 2 x Ø 13 mm resp. oblong hole through the euro grove (approx. 245 mm vertical under the frame part drill hole of Ø 8 mm, depends on the profile/hinge rotation point) and for screw [5] pre-drill (Ø 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 (Ø 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 [1] into the drilling/routing into the door sash/ cover plate are.
- And/or alternatively to the cover plate [4] with screw M3 x 12 mm [4.1] fasten the sash part [1] with fitting screw Ø 3 x 20 mm in the fitting groove.
- Install the cable for example within the glazing chamber towards the motor housing; install the rest of the cable for example within the hollow section.

CAUTION! Provide cable reserve of about 3 - 5 cm for the spring tension behind the sash part [1] of the cable transition.

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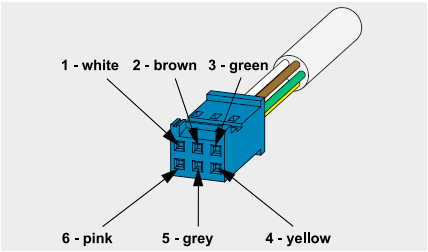
- Complete the plug-in connection after putting the door on its hinges
- Fix the sash part (1) with the fitting screw (5) Ø 3 x 20 mm (Figure 1)

CAUTION! Release the second retaining screw (5) (e.g. during the installation of the door frame into the reveal) when unhinge the door sash! Insulate the wires not used!



Wire	Cable assignment when used with blueMatic EAV	Necessary
1 - white	+ 12 V DC	yes
2 - brown	0 V (ground)	yes
3 - green	release signal	yes
4 - yellow	optional, for swing door opener	yes
5 - grey	optional, for swing door opener	yes
6 - pink	not assigned	no

Figure 3.2-3: Cable assignment when used with blueMatic EAV

Cover plate for STV-KÜ-T1 FT

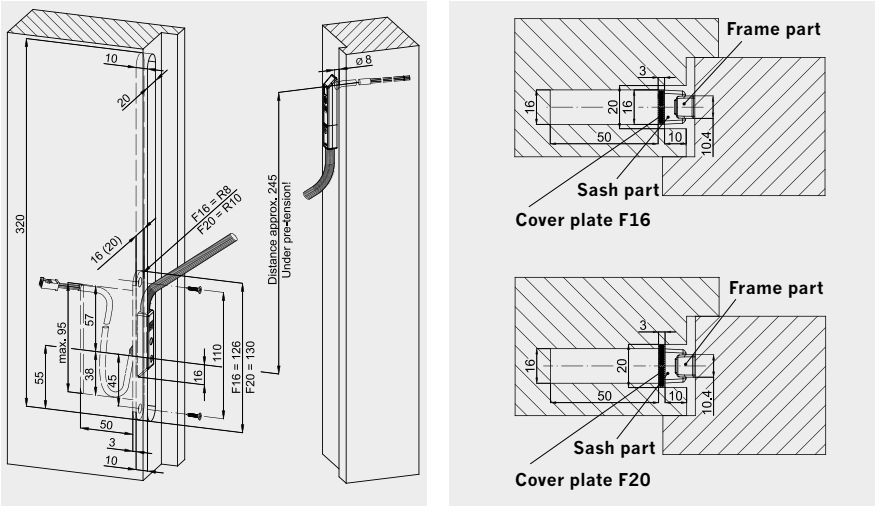
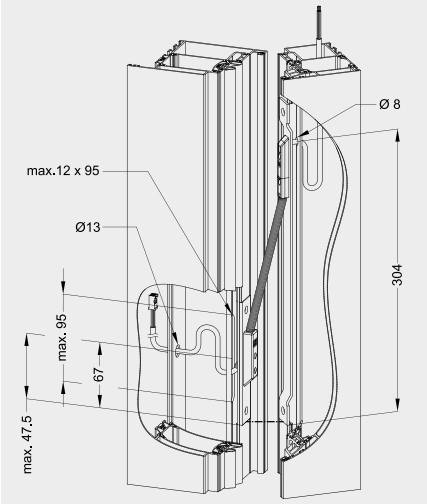
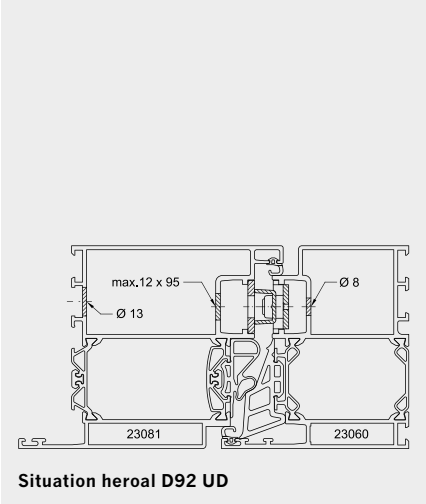


Figure 3.2-4: Routing dimensions for STV-KÜ-T1 FT and cover plate F16 or F20 (dimensions in mm)





Situation heroal D92 UD

Figure 3.2-5: Routing dimensions for STV-KÜ-T1 FT and cover plate F24 (dimensions in mm)

3.3 Installations

DANGER!

The installation of electrical equipment requires expertise, thus such work should only be carried out by qualified electricians.

DANGER!

Generally assemble and install only with the power off!

CAUTION!

The Door must easily lock mechanically before checking the electric function!
If you connect an intercom system take care that the button of this system is designed as a potential free contact! External voltage must not be transmitted from the intercom system to the lock!

If the operating voltage has been applied (start-up), the motor brings the locking points into the neutral position.

3.3.1 General connection diagram

Recommendation: flush-type box or junction box for cable connection

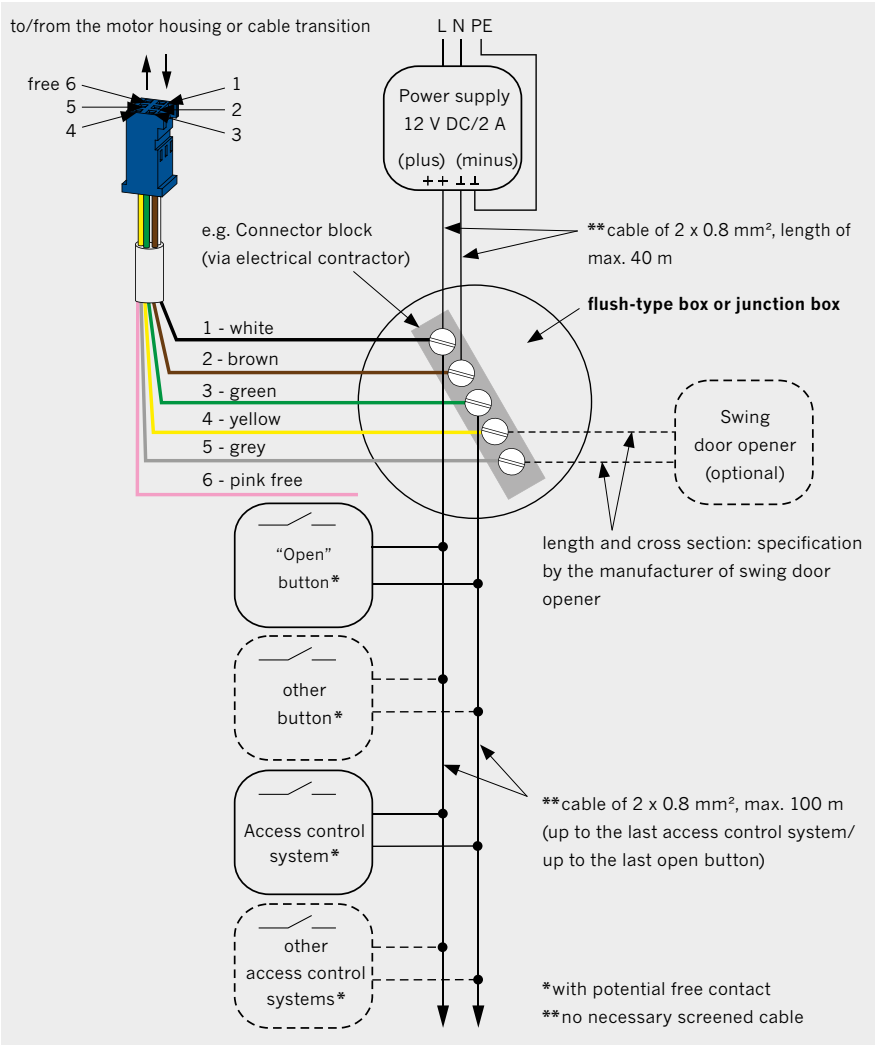


Figure 3.3.1-1: General connection diagram

3.4 Access control system transponderset

Prerequisites for installation

- The transponder signal is processed in the reader/control unit.
- This unit has to be installed in a standard flush-type box inside the building (close to the door).

NOTICE!

Should you want to accommodate the control unit and button in the same flush-type box, this must have a depth of 65 mm.

- Unless you use a button beside the door, you will have to install a flush-type box with a filler panel for the reader unit.

DANGER!

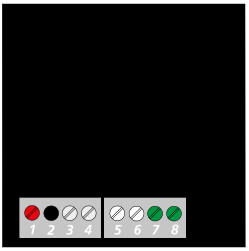
For safety reasons, do not install it in a flush-type box with a 230 V switch or socket outlet!

- The transponder antenna is located in a housing for exposed installations and is to be installed in a weatherproof zone outside the entrance door.
- Do not install the antenna directly on metal as its range could be decreased drastically.
- Do not install any other antenna within a radius of 1 m!

NOTICE!

If you plan installations on a metal substructure, you will have to use a wooden board and spacer bolts, if applicable, or large bore holes to ensure the proper function of the antenna! To test the scanning performance, you may have to tentatively install it on site, if applicable!

- Connect the cable of the antenna to the reader/control unit.
- We recommend: Lay a reserve pipe from the antenna to the reader unit.



No.	Terminals
1 red	„12 V DC“
2 black	„0 V DC“
3	serial interface
4	serial interface
5 white	Antenna
6 white	Antenna
7 green	potential free contact C
8 green	potential free contact NO

Figure 3.4-1: Terminal assignment of the transponder reader

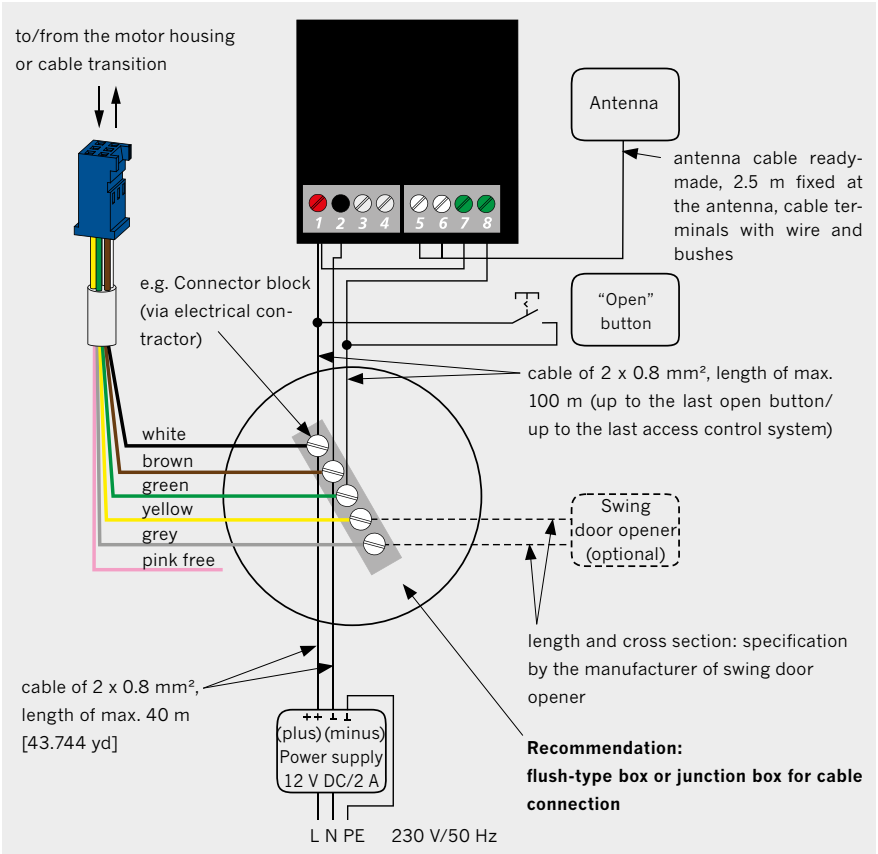


Figure 3.4-2: Installation of the transponder reader

3.5 Access control system wireless remote control

Prerequisites for installation

- To ensure the reliable performance, the position of the wireless receiver is of utmost importance for the received power.
- Do not install it at or nearby sources of possible interference (e.g. EDP/high-performance power distributor).
- To prevent manipulation of the receiver we recommend installing the receiver on the inner side of the door!

3.5.1 Wireless remote control set

Installation sequence

- Install the wireless receiver in a standard flush-type box on the inside.
- Unless you use a switch or button beside the door; you will have to provide a flush-type box with a filler panel for the wireless receiver.

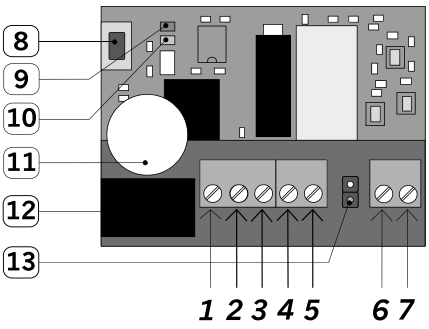
NOTICE!

If you use the flush-type box of the button, the box will have to be 65 mm deep!

DANGER!

For safety reasons, you are not permitted to install it in a flush-type box with a 230 V switch or socket outlet!

- Connect the terminals 2 through 5 of the wireless receiver as described in the table below.



No.	Terminals
1	“Break contact (NC)”, is not required
2	connect “Contact (C)” - to the green wire at the cable transition
3	connect “Make contact (NO)” - to terminal 4 of the wireless receiver (+ 12 V DC)
4	connect “12 V DC or 24 V DC” - with the white wire of the cable transition + terminal 2 of the wireless receiver
5	Connect “0 V DC” - with the brown wire of the cable transition
6	“Auxiliary antenna/ANT” (not required)
7	“Auxiliary antenna/GND” (not required)

Figure 3.5.1-1: Terminal assignment of the wireless receiver

No.	Name	No.	Name
8	“P1 button”	11	“buzzer”
9	“green LED”	12	“relay”
10	“red LED”	13	“jumper” 12 V/24 V

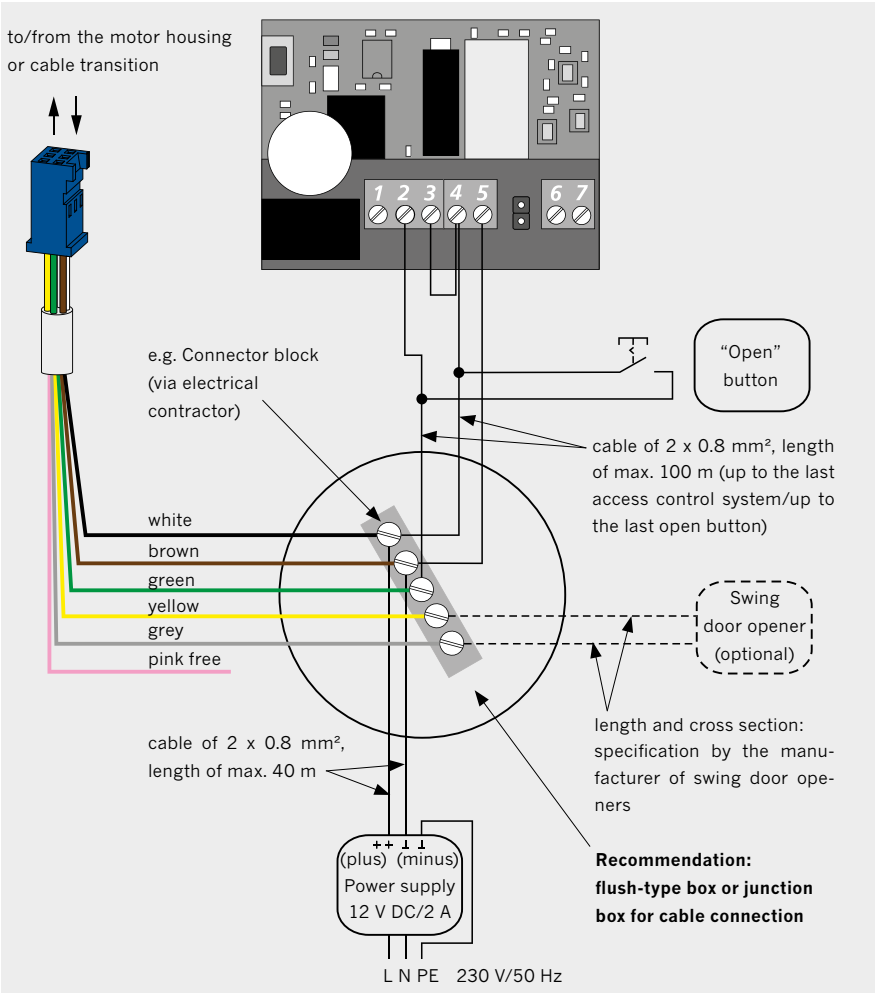
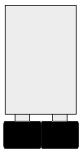
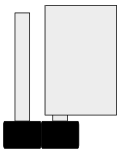


Figure 3.5.1-2: Installing the wireless receiver



CAUTION!
blueMatic EAV must be operated with 12 V.

12 V = delivery status



24 V

Figure 3.5.1-3: Adjustment of the jumper for voltage selection

- The default setting of the jumper is 12 V.
- The wireless receiver can be adjusted from 12 V to 24 V via the jumper.

NOTICE! Check the proper position of the jumper before starting operation!

3.5.2 Wireless receiver (separate)

Separate wireless receiver for additional applications, such as garage door control units.

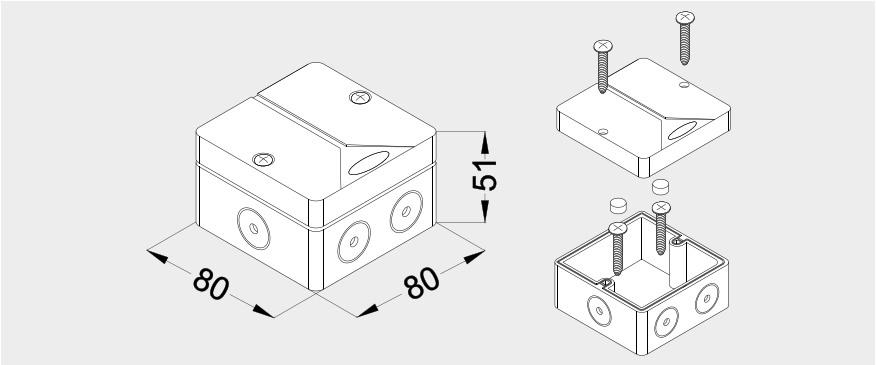


Figure 3.5.2-1: Installing the wireless receiver (dimensions in mm)

Installation sequence

- Remove the cover of the housing.
- Fasten the housing with screws.
- Push in the rubber plug (see Figure 3.5.2-1).
- Insert the circuit board of the remote according to figure 3.5.2-2 and connect it to the control of the additional application (for example to the garage door control unit).

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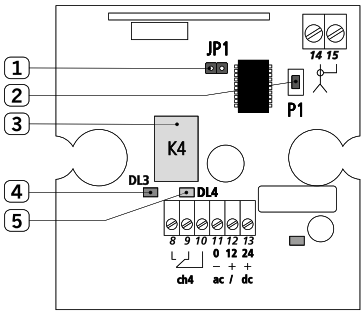
NOTICE!

Do follow the relevant installation instructions of the additional applications!

- Put the cover back on the housing and lock and screw it down.



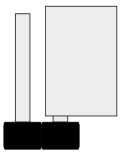
No.	Terminals
8, 9	NO relay K4 - non-operated contact is open, it closes by activating per remote control
9, 10	NC relay K4 - non-operated contact is close, it opens by activating per remote control
11, 12	“12 V AC/DC”
11, 13	“24 V AC/DC”
14	“Antenna”
15	“Screen”

Figure 3.5.2-2: Terminal assignment of the circuit board of the receiver

No.	Name	No.	Name
1	“JP1 jumper”	4	“red LED”
2	“P1 button”	5	“green LED”
3	“K4 relay”		

- You can set the K4 relay as ON/OFF or as an impulse via the JP1 jumper (see figure 3.5.2-3). The setting depends on the control unit which is to be triggered by the receiver.

JP1 = ON
K4 ON/OFF



JP1 = OFF
K4 impulse

Figure 3.5.2-3: Setting the K4 relay

- Relay remains active after being activated by remote control.
- Deactivation by actuating the remote control once more.

- Relay becomes briefly active after being activated by remote control and after about 1 sec. it will be deactivated automatically.

3.6 Non-Winkhaus access control system

3.6.1 Non-Winkhaus access control system general

Please observe the following instructions when using other than the precalled systems to control the automatic locking system with motor operated opening (e.g. transponder set, wireless remote control):

- We recommend the Winkhaus power supply STV-HT NETZTEIL 12 V DC/2 A (Art.-No. 2469777) or the frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A (2 A/2 S) (Art.-No. 5038587) to use.
- For details on the voltage supply see also chapter 2, power supply [7].
- Ensure that the decontrol signal takes place over a potential-free contact when using non-Winkhaus access control systems.
  If required use a coupling relay for realizing this.

3.6.2 Non-Winkhaus access control system fingerprint ekey home integra

Prerequisites for installation

- The applied access control system ekey home integra have to be installed into the door sash.
- If parallel to the access control ekey home integra another open signal (potential-free signal: e.g. “Open” button, intercom, ...) should be used for unlocking, this is possible via the frame part STV-KÜ-T1 RT KABEL 4 M [2] or frame part STV-KÜ-T1 RT KABEL 0,6M RNT + frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A (2 A/2 S) [8] possible (see detail B ➔ wires grey/pink).

Installation sequence

1. Plug-in the cable of the sash part cable transition STV-KÜ-T1 SET FT INTEGR-EAV [1] with 8-pole plug at the control unit ekey home integra [6] (terminal **X1**).
2. Assembly connection between control unit ekey home integra [6] and fingerprint ekey home integra [5] via cable type A ekey home integra [7] with both sided plugs (terminal **X3**).

NOTICE!

Control unit ekey home integra, fingerprint ekey home integra, cable type A ekey home integra included in standard delivery ekey. For further information on ekey home integra please contact company ekey (www.ekey.net).

3. Assembly connection between control unit ekey home integra [6] and motor housing EAV [4]. For this connect the wires of the included 3 m cable integra-EAV [3] to terminal **X6** (see detail A). After that put the blue plug into the motor housing EAV [4].

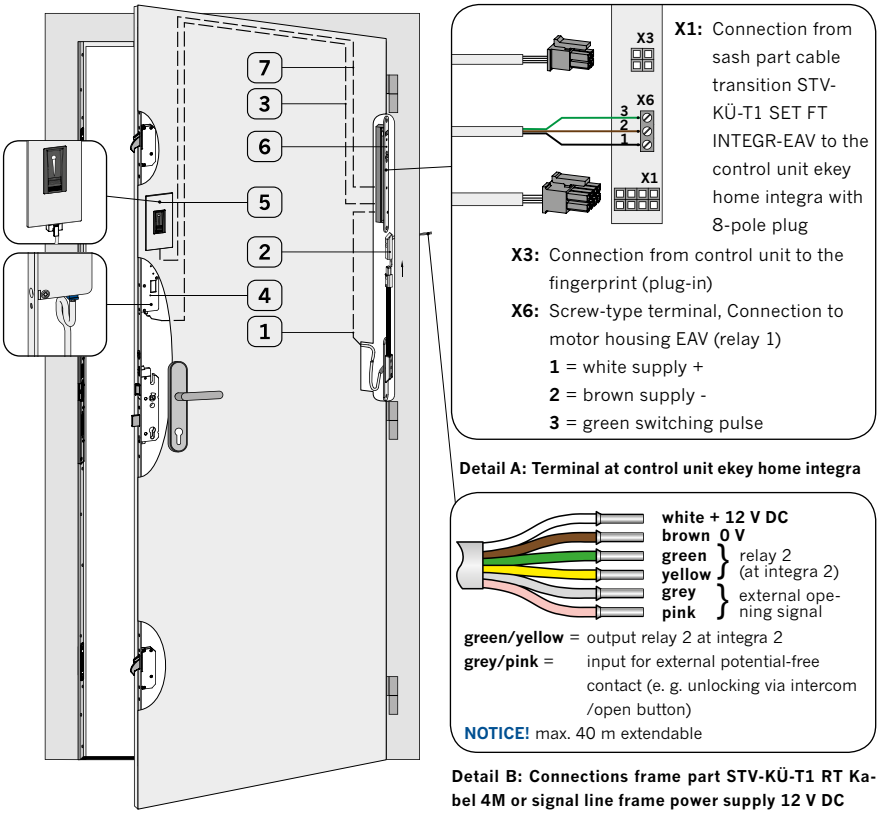


Figure 3.6.2-1: Wiring blueMatic EAV and fingerprint ekey home integra (sash side)

No.	Description	No.	Description
1	Sash part seperable cable transition STV-KÜ-T1 SET FT INTEGR-EAV FT 1M + KAB 3M*	5	Fingerprint ekey home integra***
2	Frame part STV-KÜ-T1 RT Kabel 4M	6	Control unit ekey home integra***
3	Cable integra-EAV (length 3 m)*	7	Cable type „A“ ekey home integra (length 2 m or 4 m)***
4	Motor housing EAV**		

* at shipment Winkhaus STV-KÜ-T1 SET FT INTEGR-EAV FT 1M + KAB 3M

** at shipment Winkhaus, unmounted, for retrofitting mechanical locking system

*** at shipment ekey home integra

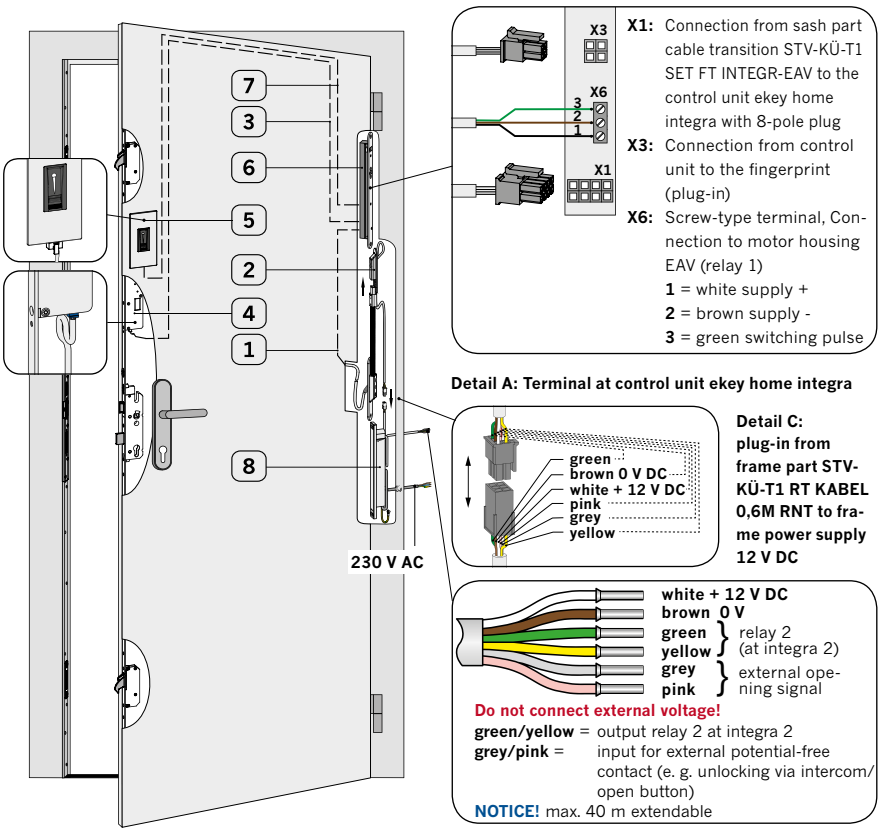


Figure 3.6.2-2: Wiring blueMatic EAV and Fingerprint ekey home integra and frame power supply

No.	Description	No.	Description
1	Sash part seperable cable transition STV-KÜ-T1 SET FT INTEGR-EAV FT 1M + KAB 3M	5	Fingerprint ekey home integra
2	Frame part STV-KÜ-T1 RT KABEL 0,6M RNT	6	Control unit ekey home integra
3	Cable integra-EAV (length 3 m)	7	Cable type „A“ ekey home integra (length 2 m or 4 m)
4	Motor housing EAV	8	Frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A

3.6.2.1 Control of additional applications (only integra 2)

- The control of a additional application (e.g. garage door, alarm system) takes place via the second relay of the integra 2.
- This potential-free signal can be used on the green/yellow wires on the frame part STV-KÜ-T1 RT KABEL 4 M (2) or the signal cable from the frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A (8) (see Detail B ➔ wires green/yellow).

3.6.2.2 Control of swing door opener (integra 1 and 2)

- By using of an blueMatic EAV with a swing door opener a second cable transition (e.g. STV-KABELÜBERGANG KÜ-T1-STV-FL 3,5M, Art.-No. 4990599 + STV-KÜ-T1 RT KABEL 4M, Art.-No. 5040503) have to be used.
- Instead of the cable integra-EAV 3 m (3) the 3,5 m cable of the additional cable transition (sash part) will be used.
- With this cable a connection is necessary between the motor housing EAV (blue plug) and the control unit ekey home integra (length min. 2 m). To this possibly disconnect the cable and remove the sheathing.
- Put the wire end sleeve at the wires white, brown and green and connect it on terminal **X6** according Detail A.
- Two remaining wires (yellow/grey) of the cable from the motor housing have to be connected with the same colour at the wires (yellow/grey) of the second cable transition = signal for swing door opener.
- If the cable was separated, connect it with wire connectors.

3.6.3 Sash side non-Winkhaus access control system (e.g. Fingerprint IDENCOM BioKey INSIDE or ekey home SE micro)

Prerequisites for installation

- The applied access control system have to be installed into the door sash.
- If parallel to the sash side access control system another open signal (potential-free signal: e.g. “Open” button, intercom, ...) should be used for unlocking, this is possible via the frame part STV-KÜ-T1 RT KABEL 4 M (2) or frame part STV-KÜ-T1 RT KABEL 0,6M RNT + frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A (2 A/2 S) (6). (see detail A ➔ wires green/white)
- The plugs are protected against polarity reversal and (by right assembly) against independently solve.

Installation sequence

1. Plug-in the cable of the sash part KÜ-T1-ZK-FL FLÜGELTEIL-EAV (1) with Y-KABEL ZK FLÜGEL-EAV (3).
2. Establish a connection between the motor housing EAV (4) and access control system (5) with the Y-KABEL ZK FLÜGEL-EAV (3).

CAUTION!

With the combination blueMatic EAV + access control, the power requirement must not to be fraught more than 2 A!

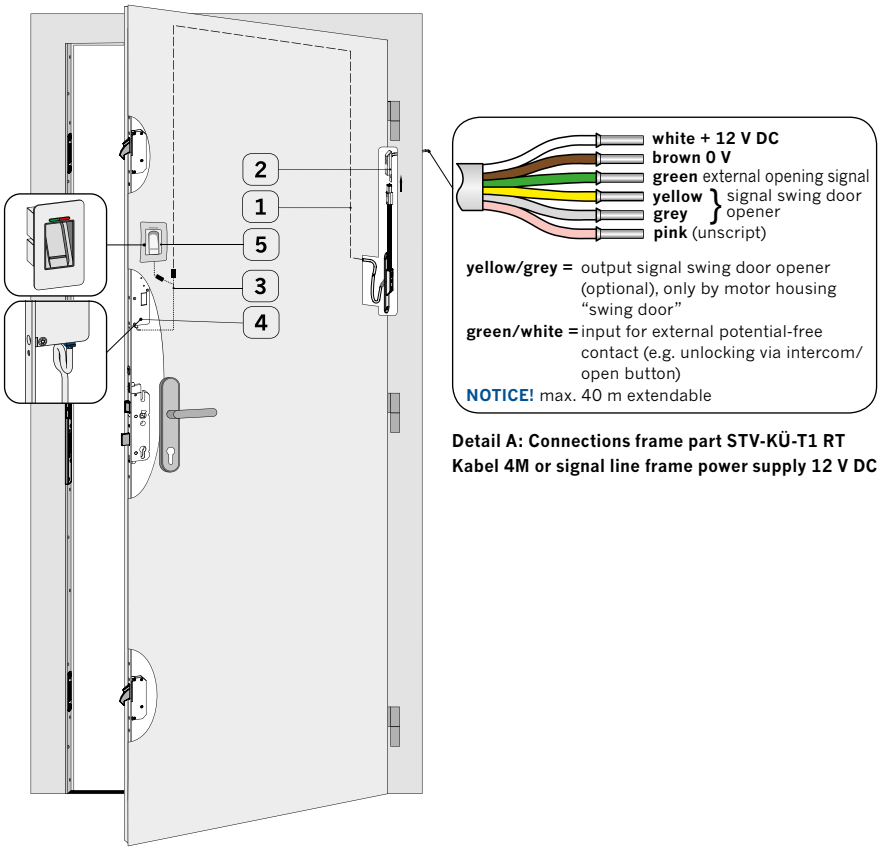
With the combination with frame power supply STV-NETZTEIL RAHM. 12 V DC the power supply should be charged max. permanently with 1,5 A and max. 2 A will be charged for 2 s!

NOTICE!

The respective fingerprint or other access control systems are not included in the Winkhaus scope of delivery.

Fingerprint IDENCOM BioKey INSIDE included in standard delivery IDENCOM. For further information please contact company IDENCOM (www.idencom.com).

No.	Description
1	Sash part seperable cable transition KÜ-T1-ZK-FL FLÜGELTEIL-EAV*
2	Frame part STV-KÜ-T1 RT Kabel 4M***
3	Y-KABEL ZK FLÜGEL-EAV (length 0.5 m)*
4	Motor housing EAV**
5	Access control systems (e.g. Fingerprint IDENCOM BioKey INSIDE with Black Box or ekey home SE micro with micro controller)
* at shipment Winkhaus STV-KÜ-T1 SET FT ZK-EAV FT 4M + KA 3,5M	
** at shipment Winkhaus, unmounted, for retrofitting mechanical locking system	
*** Order frame part separately	



Detail A: Connections frame part STV-KÜ-T1 RT Kabel 4M or signal line frame power supply 12 V DC

Figure 3.6.3-1: Wiring blueMatic EAV in connecting with sash side access control systems (e.g. Fingerprint IDENCOM BioKey INSIDE or ekey home SE micro)

No.	Description
1	Sash part seperable cable transition KÜ-T1-ZK-FL FLÜGELTEIL-EAV*
2	Frame part STV-KÜ-T1 RT KABEL 0,6M RNT***
3	Y-KABEL ZK FLÜGEL-EAV (length 0.5 m)*
4	Motor housing EAV**
5	Access control systems (e.g. Fingerprint IDENCOM BioKey INSIDE with Black Box or ekey home SE micro with micro controller)
6	Frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A

* at shipment Winkhaus STV-KÜ-T1 SET FT ZK-EAV FT 4M + KA 3,5M

** at shipment Winkhaus, unmounted, for retrofitting mechanical locking system

*** Order frame part separately

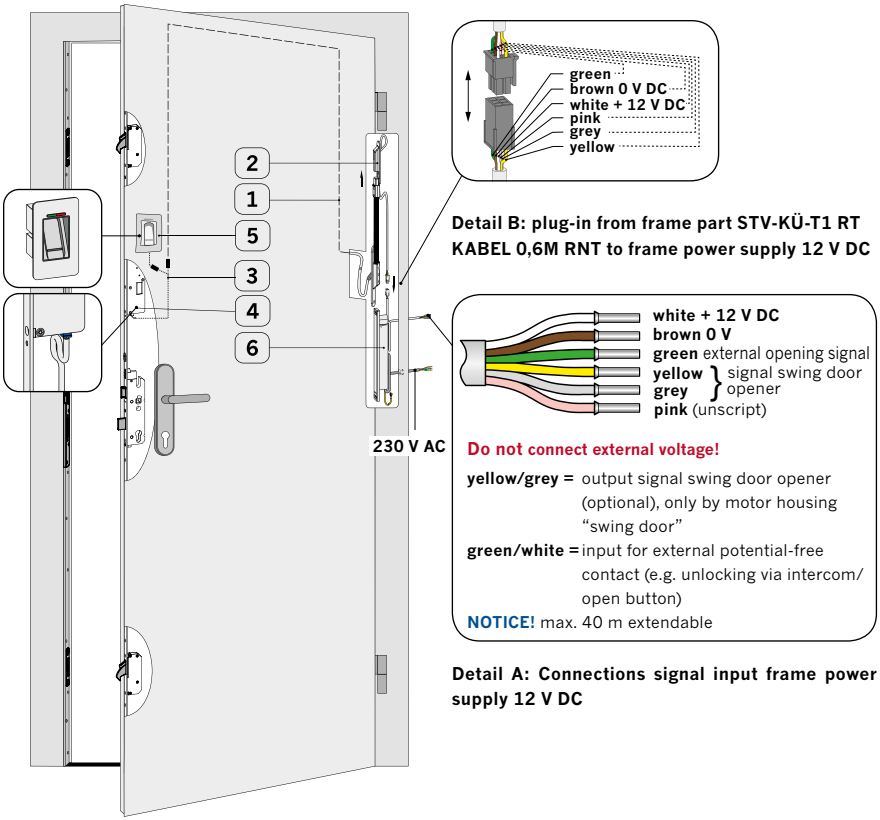


Figure 3.6.3-2: Wiring blueMatic EAV in connecting with sash side access control systems (e.g. Fingerprint IDENCOM BioKey INSIDE or ekey home SE micro) and frame power supply

3.6.4 Non-Winkhaus access control system fingerprint Sommer ENTRAsys FD

Prerequisites for installation

- The applied fingprint ENTRAsys FD has to be installed into the door sash.
- If parallel to the fingerprint another open signal (potential-free signal: e.g. “Open” button, intercom, ...) should be used for unlocking, this is possible via the frame part STV-KÜ-T1 RT KABEL 4 M [2] or frame part STV-KÜ-T1 RT KABEL 0,6M RNT + frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A (2 A/2 S) [8] possible. (see detail B ➔ wires green / yellow)
- The plugs are protected against polarity reversal and (by right assembly) against independently solve.

Installation sequence

1. Plug-in the cable of the sash part cable transition KÜ-T1-SOMMER-EAV FLÜGEL-TEIL [1] with 5-pole plug at the receiver ENTRAsys FD [6].
2. Assembly connection between receiver ENTRAsys FD [6] and fingerprint ENTRAsys FD [5] via connection cable Sommer [7] with both sided 2-pole plugs.
3. Assembly connection between receiver ENTRAsys FD [6] and motor housing EAV [4]. For this connect the wires of the included 3 m cable Sommer [3] and put the 3-pole plug into the receiver ENTRAsys FD (see detail A). After that put the blue plug into the motor housing EAV [4].

CAUTION!

With the combination blueMatic EAV + access control, the power requirement must not to be fraught more than 2 A!

With the combination with frame power supply STV-NETZTEIL RAHM. 12 V DC the power supply should be charged max. permanently with 1,5 A and max. 2 A will be charged for 2 s!

NOTICE!

Receiver ENTRAsys FD, fingerprint ENTRAsys FD, connection cable Sommer in standard shipment by Sommer.

No.	Description
1	Sash part seperable cable transition KÜ-T1-SOMMER-EAV* (with 5-pole plug for receiver ENTRAsys FD)
2	Frame part STV-KÜ-T1 RT Kabel 4M
3	Connecting cable 3 m, 3-wire for motor* (with 3-pole plug for receiver ENTRAsys FD)
4	Motor housing EAV**
5	Fingerprint ekey ENTRAsys FD (or other access control company Sommer)***
6	Radio receiver ENTRAsys FD (company Sommer)***
7	Connection cable from receiver to fingerprint scanner ENTRAsys FD (company Sommer)***

* at shipment Winkhaus STV-KÜ-T1 SET FT ZK-SO+EAV FT1M+KABEL3M

** at shipment Winkhaus, unmounted, for retrofitting mechanical locking system

*** at shipment Sommer

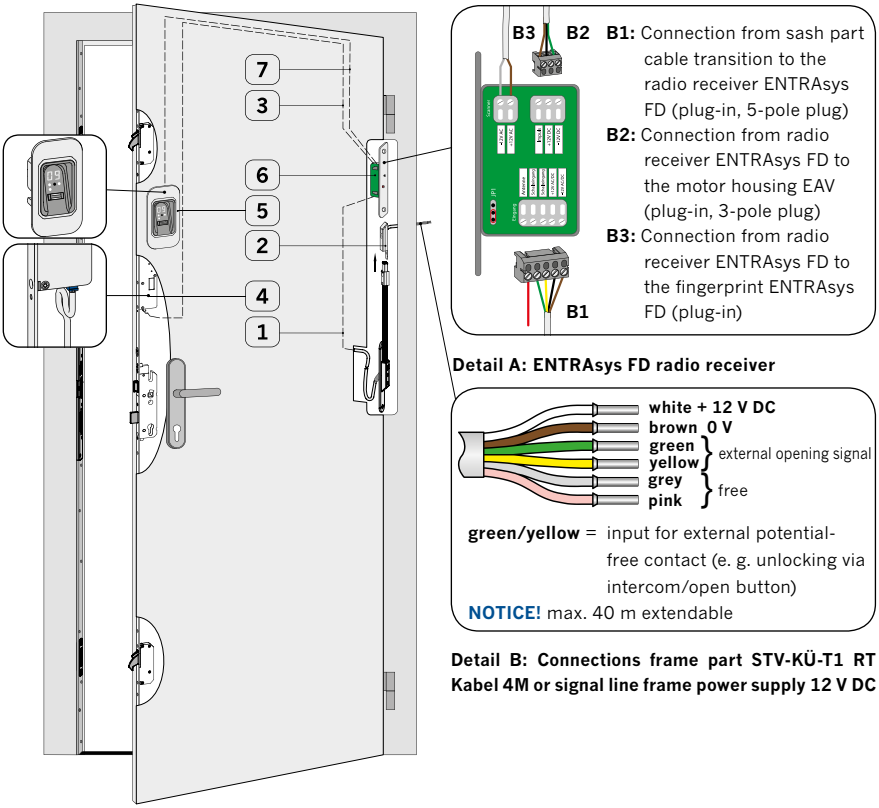


Figure 3.6.4-1: Wiring blueMatic EAV and Fingerprint Sommer ENTRAsys FD (sash side)

No.	Description
1	Sash part seperable cable transition KÜ-T1-SOMMER-EAV* (with 5-pole plug for receiver ENTRAsys FD)
2	Frame part STV-KÜ-T1 RT KABEL 0,6M RNT***
3	Connecting cable 3 m, 3-wire for motor* (with 3-pole plug for receiver ENTRAsys FD)
4	Motor housing EAV**
5	Fingerprint ekey ENTRAsys FD (or other access control company Sommer)
6	Radio receiver ENTRAsys FD (company Sommer)
7	Connection cable from receiver to fingerprint scanner ENTRAsys FD (company Sommer)
8	Frame power supply STV-NETZTEIL RAHM. 12 V DC 1,5 A
* at shipment Winkhaus STV-KÜ-T1 SET FT ZK-SO+EAV FT1M+KABEL3M	
** at shipment Winkhaus, unmounted, for retrofitting mechanical locking system	
*** Order frame part separately	

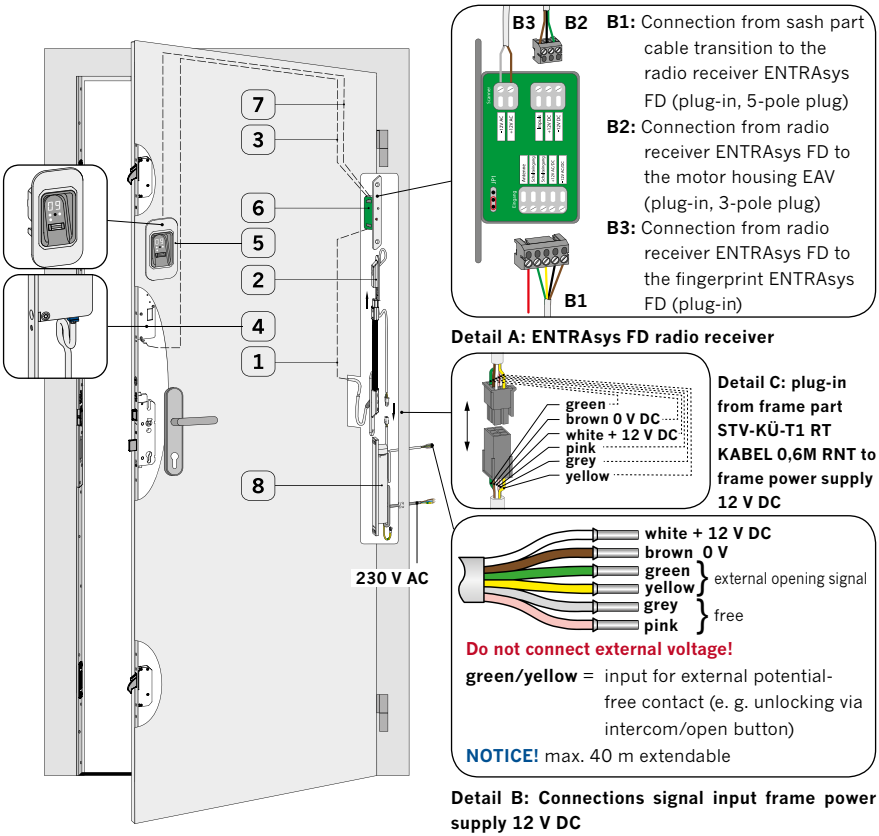


Figure 3.6.4-2: Wiring blueMatic EAV and Fingerprint Sommer ENTRAsys FD and frame power supply

4 Operation/Programming

4.1 blueMatic EAV

4.1.1 Locking and unlocking

Locking

- Even when closing the door it is automatically locked by two massive hooks and the latch in the main lock housing.
- Additional protection is provided by manual locking: one rotation of the key (1 x 360°) causes the deadbolt in the main lock housing to be thrown.

Opening the door from outside

- Unlocking via the connected access control system (e.g. Transponder chip, wireless remote control) or with a key.

Daytime function

- Temporary unlock of the door by a mechanical daytime function. Operation similar to an electric striker with mechanical daytime function. (articles see chapter 2)

NOTICE!

The main deadbolt for additional protection must be unlocked by keys in any case.

Opening the door from inside, e.g. via

- the push-button
- the intercom (potential free button!)
- the handle or key (even possible in case of power failure)

4.2 blueMatic EAV with transponder

4.2.1 Operation

The reader unit controls and monitors the access to the door.

- It is operated by means of transponder chips that work contactless.
- Hold a programmed transponder chip within (0 - 8 cm) of the antenna.
- Once the transponder chip is close enough to where it can read the information, communication is established contact free.

- The transponder data is transmitted to the reader unit via the antenna.
- An acoustic signal at the reader unit will acknowledge the data transfer.
- The reader checks whether this ttransponder chip is authorized to access and allows or denies access.

Action	Acoustic Signal	Result
Door with transponder chip “Open”	■ ■ short, short	authorized

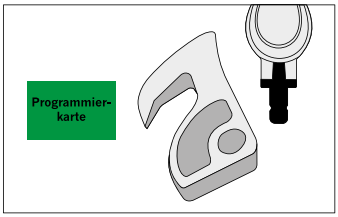
- After the enable time has elapsed, another fob can be recognized and evaluated.
- If a transponder chip is unknown to the reader, it does not have access rights and access will be denied.

Action	Acoustic Signal	Result
Door with transponder chip “Open”	■ ■■■■ short, long	not authorized

4.2.2 Programming

Each transponder set is supplied with 2 programming cards. (programming card = green; delete-all card = red) These cards are programmed to this reader/control unit.

Teach-in mode



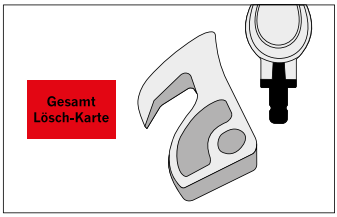
Programming card: Set teach-in mode
➜ Teach Transponder chip

Action	Acoustic Signal	Result
Pass the programmable card over the antenna	■ short, every 0.5 seconds	teach-in mode “active”

NOTICE! If you do not swipe the transponder chip across the antenna for a period of 5 seconds, the teach-in mode will be stopped. The reader unit returns to operating mode.

Action	Acoustic Signal	Result
Pass all the transponder chips to be authorised in succession over the antenna	[redacted] for about 1 second	Transponder chips “authorised”
Pass all the transponder chips to be authorised in succession over the antenna	no acoustic signal (no more transponder chips can be authorised)	memory over (250 transponder chips have already been programmed)

Delete mode



Delete-all card: Delete mode “All transponder chips” ➜ Deletes all transponder chips

CAUTION!

By using the delete-all card all the transponder chips stored in the system will be deleted! The action of deleting all transponder chips is irrevocable once the process has been completed! You have to teach up to 250 new transponder chips from the start! The programming cards cannot open the door!

Action	Acoustic Signal	Result
Pass the delete-all card over the antenna	[redacted] for about 1 second	end of delete mode “All transponder chips”

NOTICE!

All transponder chips have been deleted and the reader unit is at delivery status. The delete-all card and the programming card are saved, a transponder chip is not saved. In this state you cannot open the door via transponder chip or card; rather you will have to re-progamm the transponder chip.

Keep the programming cards at a safe place to prevent any kind of misuse. If you lose the cards, the reader unit will have to be exchanged in its entirety! Please contact customer service in such a case.

4.3 blueMatic EAV with wireless remote control

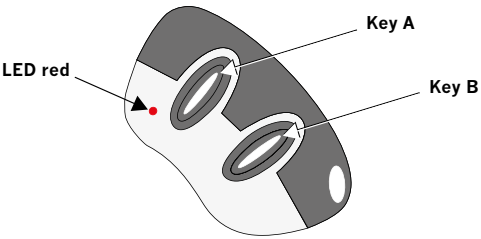
4.3.1 Operation

- It is operated via the wireless remote controls working contactless.
- The set of 3 wireless remote controls delivered have already been progammed (button A).
- To trigger a signal, press the A button of a progammed remote control. The red LED will turn on and the door will be unlocked.

4.3.2 Programming

You can program the wireless remote control via the wireless remote control or the wireless receiver. We recommend programming it by using the wireless remote control. The programming per remote control is not possible for the wireless receiver for additional applications.

Teaching a wireless remote control directly at the remote control (recommended)



NOTICE!

Keep the buttons pressed until you hear the acoustic signal at the receiver!

* If no remote control has been programmed (for example after “delete-all” function), it would apply to all remote controls. The teach-in mode can be started with any remote control.

Deleting wireless remote controls directly via the remote control

NOTICE!

Keep the buttons pressed until you hear the acoustic signal at the receiver!

Partial deletion

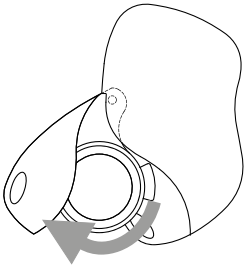
Action	Acoustic Signal	Result
1) Press buttons A and B (of a programmed remote control) simultaneously *	■ brief	teach-in mode “started”
2) Press A button (of the same remote control)	■■■■■■■■ continuous signal (as long as delete mode is “active”)	teach-in mode “active”
3) Press all buttons to be deleted in succession, as long as the delete mode is “active”	■■■■ ■■■■ continuous signal is briefly interrupted	(pressed) button(s) is/are “deleted”

Delete-all

Action	Acoustic Signal	Result
1) Press buttons A and B (of a programmed remote control) simultaneously	■ short	teach-in mode “started”
2) Press A button (of the same remote control)	■■■■■■■■ continuous signal (as long as the delete mode is “active”)	teach-in mode “active”
3) Press buttons A and B (of a programmed remote control) simultaneously	■ ■ ■ short, 3 times	memory of the receiver is “completely deleted” (non programmed remote control)

Replacing the batteries in the wireless remote control

- At the button ring hole, pull the colored battery cover from the bottom of the remote control outwards.
- The battery compartment swings out.
- Replace the batteries.
- Insert two Lithium CR 2016.31 batteries.



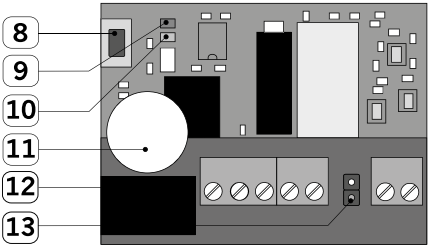
NOTICE!

Pay attention to the correct polarity!

ECO-WATCH!

Properly dispose of the batteries as demanded by environmental regulation!

Teaching wireless remote controls directly via the receiver



8	“P1 button”
9	“green LED”
10	“red LED”
11	“buzzer”
12	“relay”
13	“jumper” 12 V/24 V

- If the programming is performed via the receiver, this will have to be freely accessible.
- Press the P1 button of the receiver until the green LED lights up.
- Release the button.
- Activate the desired button of the remote control while the LED is lit up
- As long as the LED is lit, you can program additional remote control buttons.

Display Memory full: The memory has been filled to capacity (max. 85 buttons), if the teach-in button of a new wireless remote control is used and both LED displays of the receiver flash simultaneously.

Deleting wireless remote controls directly via the receiver

Partial deletion

- Press and hold the P1 button of the receiver until the green LED lights up.
- Release the button.
- Press the button of the wireless remote control while the LED is lit up.
- A programmed wireless remote control will be deleted automatically.
- A wireless remote control that has not been programmed by this method will need a programming analogue “Teaching-in of wireless remote controls directly via the remote control”.

Delete-all

- Press and hold the P1 button of the receiver until the green LED lights up.
- Release the button.
- Press the button again until the green and the red LED flash three times.
- Now, all remote controls are deleted.

ON/OFF mode

- The default setting of the relay of the receiver is “Pulse”.
- You can program it as an ON/OFF relay for additional applications (specified by the respective application).
- For this purpose, press the P1 button of the receiver until the green LED lights up.
- Release the button again.
- Press the P1 button once more.
- The LED flashes and the relay is switched to the ON/OFF mode.
- Use the same procedure to get to the pulse mode.
- Then, the LED will be lit continuously.

Displaying the occupied memory units

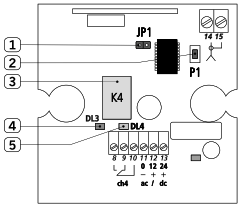
- Press and hold the P1 button of the receiver until the green LED lights up.
- Keep the button pressed until the LED goes off.
- Then release the button immediately.

The display is a binary code: LED green = 1, LED red = 0

4.4 Wireless receiver for additional applications (e.g. garage door control units)

NOTICE! The programming of remote controls via this receiver is not possible.

Einlernen am Funk-Empfänger (Artikel-Nr. 2142897)



1	“JP1 jumper”
2	“P1 button”
3	“K4 relay”
4	“red LED”
5	“green LED”

The wireless receiver saves the button of the wireless remote control in the sequence entered.

- To programm, press the P1 button of the circuit board of the wireless receiver.
- The green LED lights up.
- Release the P1 button.
- Then, press the button of the wireless remote control you would like to save.
- The LED turns off.
- The desired button of the wireless remote control has been programmed.

Deleting via the wireless receiver

Partial deletion

- Press and hold the P1 button for about 2 seconds.
- When the green LED lights up, release the P1 button.
- Press the button of the wireless remote control you would like to delete.
- The deletion of the button is signaled by the flashing LED.

Delete-all

- Press and hold the P1 button until the green LED lights up.
- Release the P1 button.
- When the LED lights, press the P1 button again until both LED flash three times.

The memory is full once 85 buttons have been saved in the wireless remote control. Now it is not possible to save additional wireless remote controls. This condition is indicated in the teach-in mode by both LED displays flashing simultaneously three times.

5 Maintenance and care

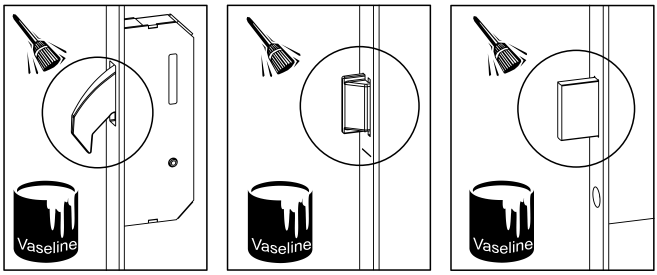
- Components of the door furniture relevant to security have to be checked for tightness and wear at regular intervals. If required, the retaining screws should be retightened and defective parts should be replaced.

- 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) and checked for proper performance regarding mechanics and electronics.

  NOTICE! Grease must be compatible with non-ferrous metals and plastics.

STV-POLFETT 10 GR STÖßEL	5040239



- 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.

General information
1 Important information
2 Product description
3 Installation
4 Operation Programming
5 Maintenance and care
6 Errors Troubleshooting
7 Technical specifications
8 Accessories

6 Errors/Causes/Troubleshooting

Error	Indication	Possible cause	Troubleshooting
the door does not lock automatically	Hooks not engaged	• the door is warped • the contact pressure is too high • the door has not been installed properly	• check the installation, and the keep adjustment and alignment • adjust the hinge plates
the latch is “blocked”	the door is not latched in the center location	• the routing in the area of the main lock housing is possibly not sufficient (chapter 3)	• re-rout, if necessary
the door cannot be closed	the hook latch is “blocked” in the single keep	• the door sash has not been mounted properly	• at the single keep ➜ change the height of the door keep (by using a screw driver)
the motor does not function although voltage is applied at the door	the door cannot be opened	• no voltage supply via the cable transition	• check the cable transition (e.g. contacts, screwed joint for KÜ-T1-STV)
the door cannot be opened by the motor	the motor does not function	• power failure • power supply is interrupted, e.g. at the cable transition • System not wired correctly	• unlock mechanically via profile cylinder/handle or lock via profile cylinder • check main power supply to transformer • check KÜ, correct the plug-in connection (see above) • check entire system agains wiring diagram
	the motor stops	• the door is warped • the contact pressure is too high • the lock is too tight	• adjust the door • check the operation via profile cylinder/handle
	the motor functions but the door cannot be opened	• the main bolt is unlocked via profile cylinder • Operating forces too high, faulty installation	• draw the main bolt back again via the profile cylinder • check installation (keep alignment, air gap, etc.)

6 Errors/Causes/Troubleshooting

Error	Indication	Possible cause	Troubleshooting
Power failure when/ during:			
a) the door is locked			• the door can be operated mechanically (profile cylinder/handle)
b) the door is open, lock is unlocked	the door is possibly not held by the latch	• the motor is not in starting position	• close the door by pre-locking the main bolt, if necessary
c) the unlocking procedure	when the door is locked again, possibly the hook, main bolt do not lock completely	• the motor is not in starting position	• door can be operated mechanically (profile cylinder/ handle), if motor has returned to starting position ➜ completely functions
EAV does not operate with remote but LED is illuminating.	Door doesn't open	• Remote battery dead • Out of range to the remote control • Remote control not autthorized	• Replace battery in remote control • Operate remote control within 30 mtrs. (unostructed) • check remote control programmed
Does not operate with remote control, red LED is not illuminating.		• Remote battery dead	• Replace battery in remote control

7 Technical specifications

7.1 Motor housing EAV3

Voltage:	12 V DC stabilized, ± 1,0 V
Closed-circuit current:	approx. 5 mA
max. current:	approx. 1500 mA
Dimensions:	173 x 50 x 16 mm
Weight:	approx. 380 g
Connection:	Plug AMP Tyco, HE14, 6-pole, from Winkhaus premanufactures
Configuration of wire:	white – voltage, +12 V DC brown – earth, 0 V green – opening signal yellow/grey – output signal for swing door opener, only with motor housing EAV3 swing door opener

7.2 Power supply

Primary voltage:	100 - 240 V AC; 50/60 Hz
Secondary voltage:	12 V DC stabilized
Current:	2 A
Dimensions:	77 x 92 x 55 mm
Weight:	approx. 0.3 kg
Installation:	top hat mounting rail

7.3 Antenna/Reader unit

Dimensions (antenna):	antenna housing: 90 x 90 x 13 mm, for exposed installation, cable is permanently installed
Dimensions (reader):	45 x 45 x 22 mm
Reading distance:	between 0 and 8 cm (depending on the installation environment)
Signalization:	piezo-buzzer
Data memory:	max. 250 transponder chips
Reader technique:	Prox reader (EM 4102, Hitag)
Power consumption:	max. 100 mA
Voltage:	12 V DC

7.4 Wireless remote control

Receiver type:	Superheterodyne
Modulation:	AM/ASK
Frequency:	433.92 MHz
Number of code combinations:	2 to the power of 64 (“Rolling Code”)
Frequency of the local oscillator:	6.6128 MHz
Intermediate frequency:	10.7 MHz
Sensitivity (to receive signals):	-115 dB
Input impedance:	50 ohm
Maximum memory capacity:	max. 85 buttons
Power supply:	12/24 V AC/DC
Closed-circuit current:	10 mA
On-load current:	23 mA
Number of relays:	1 (NO-NC), output 24 VA
Dimensions (receiver):	44 x 33 x 17 mm
Range:	max. 30 meters (unobstructed area) 200 meters with antenna

Remote control

Number of operations:	2 channel
Power supply:	Lithium CR 2016.31 battery
Service life of batteries:	18 - 24 months
Power consumption:	13 mA
Frequency:	433.92 MHz
Number of code combinations:	2 to the power of 64 (as “Rolling Code”)
Modulation:	AM/ASK
Rated output E.R.P.:	50 - 100 µW
Range in an unobstructed area:	max. 30 m
Dimensions:	61 x 36 x 16 mm

Wireless receiver (separate)

Receiver type:	Superheterodyne
Modulation:	AM/ASK
Frequency:	433.92 MHz
Frequency of the local oscillator:	6.6128 MHz
Intermediate frequency:	10.7 MHz

Sensitivity (to receive signals):	115 dB
Input impedance:	50 Ohm
Maximum memory capacity:	85 codes for remote control
Power supply:	12/24 V AC/DC
Closed-circuit current:	15 mA
On-load current:	33/48 mA
Number of relays:	(1 NO-NC)
Power:	24 W
Dimensions:	80 x 80 x 50 mm

7.5 Cable transition STV-KÜ-T1 FT

General Specifications

Measurements:	Overall length approx. 260 mm
Cross section of wires:	6 x 0.25 mm²
Max. voltage:	48 V DC
Protection classification:	IP 54
Max. switching current:	2 A 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 STV-KÜ-T1 (sash- + frame part)

Sash parts:

- STV-KÜ-T1 FT 2 M with 2 m cable + plug for motor housing
- STV-KÜ-T1 FT 3,5 M with 3.5 m cable + plug for motor housing

Frame parts (Order frame part separately!):

- STV-KÜ-T1 RT KABEL 4 M with 4 m cable and cable end sleeves
- STV-KÜ-T1 RT KABEL 0,6 M RNT with 0.6 m cable and plug for frame power supply

STV-KÜ-T1 SET FT INTEGRA-EAV FT 1M + KAB 3M

Plug-'n'-play solution for fingerprint ekey home integra

- Sash part STV-KÜ-T1 SET FT INTEGR-EAV FT 1M + KAB 3M
  - Sash part with cable 1 m (6 x 0,25 mm²), cable ends with 8-pole plug for control unit ekey home Integra
- Cable integra-EAV 3 m (3 x 0,25 mm²)
  - 1st Cable end with plug for motor housing EAV
  - 2nd Cable end with wire end sleeve

STV-KÜ-T1 SET FT ZK-EAV FT 4M + KA 3,5M

Plug-'n'-play solution for sash side access control systems (e.g. Fingerprint IDENCOM BioKey INSIDE or ekey home SE micro)

- Sash part KÜ-T1-ZK-FL FLÜGELTEIL-EAV
  - Sash part with cable 3.5 m (5 x 0.25 mm²), cable ends with 5-pole plug
- Y-KABEL ZK FLÜGEL-EAV 0.5 m (0,25 mm²)
  - 1st Cable end with plug for motor housing EAV
  - 2nd Cable end with plug for cable transition KÜ-T1-INSIDE-EAV
  - 3rd Cable end with plug for sash side access control systems

STV-KÜ-T1 SET FT ZK-SO + EAV FT 1M + KABEL 3M

Plug-'n'-play solution for Fingerprint Sommer ENTRAsys FD

- Cable transition KÜ-T1-SOMMER-EAV FLÜGELTEIL with 5-pole plug
  - Sash part with cable 1 m (6 x 0,25 mm²), cable ends with 5-pole plug for receiver ENTRAsys FD
- Connection cable 3 m (3 x 0,25 mm²)
  - 1. cable end with 3-pole plug for receiver ENTRAsys FD
  - 2. cable end with plug for motor housing EAV

8 Accessories

Transponder chip

Transponder chip (separate) as an extension to transponder set EAV (2410265).

- form key fob
- color blue

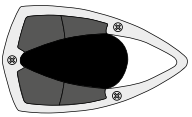
STV-HT TRANSPONDER CHIP T01 BLAU BL	2126766

Wireless remote control

2-channel wireless remote control (separate) as an extension to the wireless remote control set (2410273).

- color dark grey/grey

STV-HT WIRELESS REMOTE CONTROL F01 ANTHRAZIT	2126782

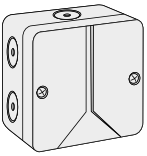


4-channel wireless remote control (separate) as an extension to the wireless remote control set (2410273).

- color silver/black

STV-HT WIRELESS REMOTE CONTROL F01 4-KANAL SL/SW	5003295

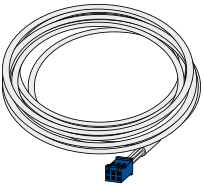
Wireless receiver



Wireless receiver (separate); e.g. for coupling with the garage door control unit (the second button at the remote control can be used for this purpose)

STV-HT WIRELESS RECEIVER F01	2142897

Cable 6 m for motor



Cable 6 m (5 x 0,25 mm²), 1. Cable end with plug for motor housing, 2. Cable ends with wire end sleeve
Use for motor blueMatic EAV as alternative too STV-KÜ-T1 FT 2M or STV-KÜ-T1 FT 3,5M.

STV-HT CABLE 6 M FOR MOTOR	2522881

Cover Strip

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

STV-COVER STRIP KÜ-T1 RT R8 RAL 7035	5040517

Appendix: Classification motorical multipoint locks

Article no.	Backset	Centre distance	Faceplate	Classification
STV-EAV	35 – 65 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	2 S 5 C 0 G 3 0 2
STV-EAV3	35 – 85 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	2 S 5 C 0 G 3 0 2
STV-AV2B	35 – 65 mm	92 mm PZ 94 mm RZ	Flat ≥ 16 mm U ≥ 22 x 5 mm	2 S 5 C 0 G 3 0 2

NOTICE!

Suitable for fire and smoke protection doors (with steel latch).

Declaration of performance No. 008.2 CPR

1. Unique identification code of the product type:

blueMatic EAV, Electromechanical lock for doors according to DIN EN 14846
blueMatic AV2B, Electromechanical lock for doors according to DIN EN 14846

2. 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-AV3 + motor housing EAV3 (mounted/not mounted)
STV-AV2 + motor housing EAV3 (mounted/not mounted)
STV-AV2B

3. 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.

4. 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 GmbH & Co. KG, Berkeser Str. 6, D-98617 Meiningen

5. 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/A

6. 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

7. 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 (D) and evaluated and verified the performance reliability according to System 1, as well as issued the test report.

Certificate 0432 – CPR – 00107-04

8. Declared performance:

Significant features	Performance	Harmonised technical specification
Capability for automatic closing		**DIN EN 14846:2008-11 (EN 14846:2008 (D))**
5.4 Door mass and closing force	Class 5: up to 200 kg door mass, 25 N maximum closing force	
Annex A (5.1.2 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	No harmful substances may be contained within or released by this product	

9. The product described under sections 1 and 2 fulfils the performances listed under section 8.

This declaration of performance is ussed under the sole resposability of the manufacturer identified in point 4. Signed for and on behalf of the manufacturer by:

Meiningen, 17/02/2015

ppa. Dr. D. Warnow
Technical Director

ppa. A. Dinkelborg
Director of Product Management

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