

Garage door operator

CarTeck DRIVE 500 pro CarTeck DRIVE 600 pro



Platz für Garantieaufkleber











Table of contents

| | About this installation and operating manual | 5 | 8.1 Conne | ction to a power outlet |
|-----------|--|--------|----------------|---------------------------|
| 1.1 | Storage and circulation of the installation and | | 9. Initial op | eration |
| | operating manual | 5 | | information for initial o |
| 1.2 | Important for translations | 5 | | |
| 1.3 | Description of the product type | 5 | | pperation |
| 1.4 | Target groups of the installation and operating | | | ing obstacles during th |
| | manual | 5 | run | |
| 1.5 | Explanation of warning symbols and notes | 5 | 9.4 Mecha | nical adjustment of the |
| 1.6 | Special warnings, hazard symbols and manda | | 9.5 Attach | ing information sign an |
| 1.0 | , | - | 40 0 | |
| 4 7 | signs | 6 | | ons and special funct |
| 1.7 | Information regarding the depiction of text | 8 | carriage | |
| 1.8 | Intended use of the operator | 8 | | carriage circuit board |
| 1.9 | Improper use of the operator | 9 | 10.2 Conne | ction options on the me |
| 1.10 | Qualifications of personnel | 9 | 10.3 Reduc | ing the illumination pov |
| 1.11 | For the user | 10 | 10.4 Explan | ation of the radio chan |
| | | | 10.5 Progra | mming the transmitter |
| | General safety instructions | 11 | _ | ation on Memo |
| 2.1 | Basic safety instructions for operation | 11 | | lling programming mod |
| 2.2 | Additional safety information for the radio remo | ote | | ng a transmitter button |
| | control | 13 | channe | el |
| | Description of function and product | 14 | | ng transmitter complete |
| 3.1 | The operator and its mode of operation | 14 | 10.10 Deletin | ng radio channel in the |
| 3.2 | Safety equipment | 14 | 10.11 Deletir | ng all radio channels in |
| 3.3 | Product designation | 15 | 10.12 Progra | mming a second hand |
| 3.4 | Explanation of tool symbols | 15 | radio (| HFL) |
| 3.5 | Scope of delivery | 16 | 10.13 Perfori | * |
| 3.6 | Dimensions | 17 | | the DIP switches on t |
| 3.7 | Technical data | 17 | _ | automatic closing fun |
| 3.8 | | 18 | values | • |
| 3.0 | Door types and accessories | 10 | | |
| 4. | Tools and protective equipment | 19 | _ | the lighting function |
| 4.1 | Required tools and personal protective | | | partial opening |
| | equipment | 19 | | ng partial opening |
| | | .0 | | door safety device |
| 5. | Declaration of Installation | 20 | 10.20 12 V o | utput |
| 6 | Installation | 24 | 10.21 SOMlin | nk |
| | Installation | 21 | 44 0 | |
| 6.1 | Important information on installation | 21 | | ons and special funct |
| 6.2 | Preparation for installation | 23 | control u | |
| 6.3 | Installing the operator system | 24 | | ontrol unit circuit board |
| 6.4 | Installation on the door | 25 | | ction options to the wa |
| 6.5 | Installing the operator system for installation | | 11.3 Setting | the DIP switches on t |
| | variants A and B | 26 | 11.4 Button | assignment of wall con |
| 6.6 | Installing the operator system for installation va | ariant | 11.5 Button | 2 for partial opening |
| | С | 28 | 11.6 Deletir | ng partial opening |
| 6.7 | Installation on the door | 31 | | cell and frame photocel |
| 6.8 | Installing the wall control unit | 35 | 11.8 Wallsta | · |
| | - | | 11.9 Conex | |
| 7. | Removing and fastening covers | 38 | 11.10 Output | |
| 7.1 | Cover of the motor carriage | 38 | | . 00 |
| 7.2 | Installing the cover | 38 | 11.11 Relay | |
| 7.3 | Light and control unit cover of the wall control | | 11.12 Installi | ng and removing the a |
| | unit | 39 | 12. twin oper | ration |
| _ | | | | peration |
| 8. | Electrical connection | 40 | | |
| | | | | |

40

| 5 5 5 | 64 |
|--|--|
| 1 3 | 65 |
| 1 9 9 | 65 65 |
| . , | 65 |
| | 65 |
| | 65 |
| | 65 |
| | 66 |
| <u> </u> | 66 |
| Handover of door system | 67 |
| | 68 |
| · · · · · · · · · · · · · · · · · · · | 68 |
| | 69 |
| 1 5 | 70 71 |
| 9 | 71 |
| 9 | 71 |
| · | 71 |
| Maintenance and care | 73 |
| Safety instructions for maintenance and care | 73 |
| Maintenance schedule | 74 |
| Care | 75 |
| Froubleshooting | 76 |
| , | 76 |
| S . | 77 |
| | 70 |
| | 78 79 |
| 9 | 80 |
| 1 3 | |
| | 81 |
| disassembly | 81 |
| · · | 82 |
| Disposal of wasto | 82 |
| Disposal of waste | 02 |
| Short instructions for installation | 84 |
| · | |
| | Selecting and configuring master and slave Partial opening Defined opening and closing Door status display Lighting for twin operation Photocell External button 0 Reset Function test and final test Testing obstacle detection Handover of door system Operation Safety information on operation Handover to the user Operating modes of door movement Testing obstacle detection Power-saving mode In the event of a power failure Function of the emergency release Maintenance and care Safety instructions for maintenance and care Maintenance schedule Care Troubleshooting Safety instructions for troubleshooting Troubleshooting Time sequences of operator lighting in normal mode and in case of faults Troubleshooting table Replacing the motor carriage Taking out of operation, storage and disposal Taking the operator out of operation and disassembly |

1.1 Storage and circulation of the installation and operating manual

Read this int allation and operating manual a refully and o mpletely before int allation, o mmis oning and operation and ale before remora I. Follow all warnings and a fety int rut ions

Keep this int allation and operating manual ae s ible to all users at all times at the plae of us . A replae ment for the int allation and operating manual a n be downloaded from **SOMMER** at:

www.sommer.eu

During the trans er or rea le of the operator to third parties the following dog ments must be pase don to the new owner:

- EC Deb aration of Conformity
- handow r protoo I and inp et ion book
- this int allation and operating manual
- proof of regular maintenane, testing and a re
- documents recording retrofitting and repairs

1.2 Important for translations

The original int allation and operating manual was written in German. The other an ilable languages are trank ations of the German & ris on. You a n get the original int allation and operating manual by a nning the QR o de:



https://www.teckentrup.biz/downloadcenter/

1.3 Description of the product type

The operator has been on sruted ao rding to sate-ofthe-art teb nology and reo gnie d teb nia I regulations and is s bjet to the Mab inery Diret is (2006/42/EC). The operator is fitted with a radio ree ig r. Optionally an ilable ae o ries are alo des ibed. The vers on a n a ry depending on the tp e. This means the use of ae s riesan sary.

1.4 Target groups of the installation and operating manual

The int allation and operating manual mut be read and obs red by every ne as gned with one of the following taks

- Unloading and in-houe trans ort
- Unpaki ng and int allation
- Initial operation
- Setting
- Ua ge
- Maintenane, testing and a re
- Troubleb ooting and repairs
- Dia e mbly and dip oa I

Explanation of warning symbols 1.5 and notes

The warnings in this int allation and operating manual are s rut ured as follows



bol **B**U

Signal word

Type and source of hazard Consequences of the hazard ► Preventing/avoiding the hazard

The hazard on bol india tes the hazard. The signal word is linked to a hazard on bol. The hazard is bas fied into three bas s depending on its danger level:

DANGER WARNING CAUTION

This leads to three different hazard bas fia tions



⚠ DANGER

Describes an immediate danger that leads to serious injury or death.

Describes the consequences of the danger to you or other persons.

► Follow the int rut ions for a iding or pree nting the danger.



Describes a potential danger of serious injury or death.

Describes the potential consequences of the danger to you or other persons.

► Follow the int rut ions for a iding or preventing the danger.



⚠ CAUTION

Describes a potential danger of a hazardous situation.

Describes the potential consequences of the danger to you or other persons.

► Follow the int rut ions for a iding or preventing the danger.

The following **g**n bols are used for notes and information:



NOTE

Describes additional information and useful notes for correct use of the operator without endangering persons. If it is not observed, property damage or faults to the operator or door may occur.



INFORMATION

Describes additional information and useful tips.

Functions for optimum usage of the operator are described.



INFORMATION



This symbol indicates that all operator components that have been taken out of service must not be disposed of with household waste, as they contain hazardous substances. The components must be disposed of correctly at an authorised recycling centre. The local and national regulations must be observed.



INFORMATION

This symbols indicates that all old accumulators and batteries must not be disposed of with household waste. Old accumulators and batteries contain hazardous substances. These must be disposed of properly at municipal collection points or in the containers provided by dealers. The local and national regulations must be observed.

The following on bols are used in the figures and text.



Continue reading the int allation and operating manual for more information.



Dis nnet the operator from the mains trage.



Connet the operator to the mains voltage.



Syn bol refers to fat ory e ttings



Sym bol refers to a WiFi-enabled dev ${\bf e}$, ${\bf s}$ ${\bf b}$ as a ${\bf s}$ n artphone.

1.6 Special warnings, hazard symbols and mandatory signs

To p ec fy the source of danger more prece ly, the following pn bols are used together with the above -mentioned hazard pn bols and is gnal words. Follow the intervictions to prevent a potential hazard.



↑ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

► Installation, testing and replacement of electrial of mponents must be a rried out by a trained electrician.



MARNING

Danger of falling!
Unsafe or defective ladders may tip and cause serious or fatal accidents.

▶ Ue only a non-bip, to able ladder.



⚠ WARNING

Danger for trapped persons! Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

▶ If there is no e o nd entrane to the garage, yo u mus have a release loke or a Bowden wire for unloke ing from the outs de installed. This a n be used to free persons who a nnot free thems low s



⚠ WARNING

Danger due to projecting parts! Parts must not project into roads or public footpaths. This also applies while the door is moving.

Persons and animals may be seriously injured.

Keep public roads and footpaths bear of projet ing parts



MARNING

Danger due to falling parts!
Parts of the door may become detached and fall. If persons or animals are hit, this may cause serious injury or death.

► The door must not bend, rotate or twist when you open or bose it.



№ WARNING

Danger of entrapment!
Persons and animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

Keep bear of the moiving door.



⚠ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

New r put y ur hand near the door or near moiv ng parts when the door is moiv ng.



⚠ WARNING

Danger of tripping and falling! Unsafely positioned parts such as packaging, operator parts or tools may cause trips or falls.

▶ Keep the int allation area free of unnee a ry items



∕N WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This will temporarily reduce vision. This may cause serious or fatal injury.

▶ New r look directly into an LED.



№ WARNING

Danger due to hot parts!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

► Allow the operator to o ol down before removing the o ver.

The following mandatory is gns inform the use r that at ions are required. The requirements desemble of multiple of mobile with.



⚠ WARNING

Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear a fety glae s



⚠ WARNING

Risk of injury in the head region! Impact with suspended objects may cause serious abrasions and cuts.

▶ Wear a a fety helmet.



⚠ CAUTION

Risk of injury to hands! Rough metal parts may cause abrasions and cuts when picked up or touched.

► Wear a fety glove s

1.7 Information regarding the depiction of text

- 1. Stands for direct ions for an act ion
 - ⇒ Stands for the results of the at ion

Liss are so own as a list of actions

- Lis 1
- Lis 2

1, A left lem number in the figure refers to a number in the text.

Important telk items for ea mple in direct ions for at ions are emphase d in **bold** to e.

Referene s to other b apters or e t ions are in **bold** tp e and e t in "quotation marks."

1.8 Intended use of the operator

The operator is intended et us et ly to open and bos doors. Any other us does not onto itute intended us. The manufaturer as pts no liability for damage resilting from us other than the intended us. The us r bears the sile repions bility for any rite into the d. It also to ids the warranty.

Any b anges to the operator mus be made with original **SOMMER** ae **s** ries only and only to the **ek** ent de**s** ibed.

Doors automated with this operator mus o mply with all a lid international and domes ic s andards direct is and regulations. These include EN 12604, EN 12605 and EN 13241-1.

The operator may only be ue d:

- if the EC Deb aration of Conformity has been is ed for the door s em
- if the CE mark and the tp e plate for the door s em have been attabled to the door
- if the handow r protoo I and the inp et ion book have been o mpleted and are available
- the int allation and operating manuals for the operator and the door are present

0

- · as specified in this Installation and Operating Manual
- in good teb nia I o ndition
- with attention to a fety and hazards by trained ue rs

1.9 Improper use of the operator

Any other use or additional use that has not been described in brapter "1.8 Intended use of the operator" on titutes improper use. The user bears the sole responsibility for any risk into the d.

The manufact urer's warranty will be voided by

- damage a ue d by other ue and improper use
- use with defet ive parts
- unauthorised modifications to the operator
- modifications and non-approved programming of the operator and its o mponents

The door must not be part of a fire protection \$ em, an ea pe route or an emergenge ext that automatia lly bos s the door in the ese nt of fire. Installation of the operator will present automatic bosing. Obserse the load building regulations

The operator may not be ue d in:

- areas with ex los on hazard
- ve ry a lty air
- aggreis & atmos here, including b lorine

1.10 Qualifications of personnel

People under the influene of drugs alo hol, or media tions that a n influene their ability to reat may **not** work on the operator.

After interpolation of the operator, the person reponsible for the interpolation of the operator must omplete an EC Debaration of Conformity for the door some min as of and with Mab inery Directive 2006/42/EC and apply the CE mark and a spop e plate to the door some. This also applies if the operator is retrofitted to a manually operated door. In addition, a handow reprotoo I and an insolution book must be ompleted. The following are as ilable:

- handoe r protoo I for the operator
- · EC Deb aration of Conformity



http://som4.me/konform

Qualified specialist for installation, commissioning and disassembly

This Int allation and Operating Manual mut be read, unders ood and o mplied with by a qualified p ecalit who int alls or performs maintenane on the operator. Work on the electrical seem and live parts mut be performed by a trained electrician in an ordane with EN 50110-1.

Int allation, initial operation and dia e mbly of the operator may only be performed by a **qualified** specialist.

The qualified p ecalis mus be familiar with the following s andards

- EN 13241-1 Doors and gates Product s andard
- EN 12604 Doors and gates Meb ania lap et s Requirements
- EN 12605 Doors and gates Meb ania lap et s Tes methods
- EN 12445 and EN 12453 Safety in ue of poweroperated doors

A qualified p ecalis is a pero no mmis oned by the intaller. The qualified p ecalis mus intruct he up r:

- on the operation of the operator and its dangers
- on the handling of the manual emergenge release
- on regular maintenane, testing and a re whib the us ranarry out

The use r must be informed that other use rs must be into rube ed on the operation of the operator, its dangers as well as the emergent releas.

The ue r mus be informed about whib work may only be performed by a qualified p ec alist:

- int allation of ae s ries
- e ttings
- regular maintenane, testing and a re
- troubleb ooting and repairs

The following doa ments for the door \$ em mus be handed on r to the use r:

- · EC Deb aration of Conformity
- handow r protoo I and inp et ion book
- the int allation and operating manuals for the operator and the door

1.11 For the user

The use r must ensire that the CE mark and the type plate have been attabled to the door to em.

The following door ments for the door to em must be handed over to the use r:

- the ins allation and operating manuals for the operator and the door
- inspet ion book
- · EC Deb aration of Conformity
- handoæ r protoo I

The us r mus alway keep this Ins allation and Operating Manual at the plae of us, ready for ons Itation and as is ble to all us rs. The us r is rep one ble for:

- the intended ue of the operator
- its good o ndition
- instructing all use rs how to use the door speem and in the assign ic ated hazards
- operation
- maintenance, inspection and care by a qualified
 p ec alib
- · troubleshooting and repair by a qualified specialist

The operator must not be used by persons with restricted phis all, sons ry or mental apacity or who lake esperience and knowledge. All users must be poscially instructed and have read and understood the installation and operating manual.

Children must new r play with or use the operator, ew n under so perivision. Children must be kept bear of the operator. Handheld transn itters or other of mmand deiver some rewer be given to be ildren. Handheld transn itters must be a fely so ored and protected against unintended and unauthoried due.

The us r will obs re the aic dent presention regulations and the appliable sandards in Germany. In other ountries, the us r muss o mply with the appliable national regulations

The guideline "Technia I regulations for workplae s ASR A1.7" of the German o mmittee for workplae s (ASTA) is applied ble for o mmerical use. The guidelines described must be observed and o mplied with. This applies for use in Germany. In other o untries the user must o mply with the applied ble national regulations

2. General safety instructions

2.1 Basic safety instructions for operation

Follow the basic a fety into rutions lited below.

The operator mute not be used by persons with restricted phistal, so not ry or mental a pacity or who lake experience and knowledge. All users mute be specially into rutied and have read and understood the interallation and operating into rutions.

Children mus new r play with or us the operator, ew n under sperivision. Children mus be kept bear of the operator. Handheld transmitters or other ommand deives mus new r be given to bildren. Handheld transmitters mus be a fely sored and protected against unintended and unauthoried due.



⚠ DANGER

Danger if not observed! If safety instructions are not observed, serious injury or death may result.

 All a fety int rut ions mut be o mplied with.



⚠ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ► Int allation, tet ing and replae ment of elet ria I o mponents mut be a rried out by a trained electrician.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, dis nnet it from the ontrol unit.
- Check that the operator is not lie.
- Sea re the operator agains being with ed bak on.



⚠ DANGER

Danger due to use of the operator with incorrect settings or when it is in need of repair!

If the operator is used despite incorrect settings or if it is in need of repair, severe injury or death may result.

- ► The operator may only be used with the required strings and in the proper outline.
- ► You mus have faults repaired profes onally without delay.



⚠ DANGER

Danger of hazardous substances! Improper storage, use or disposal of accumulators, batteries and operator components are dangerous for the health of humans and animals. Serious injury or death may result.

- ► Au mulators and batteries mus be s ored out of the reab of b ildren and animals
- ► Keep a mulators and batteries away from b emia I, meb ania I and thermal influences
- Old ag mulators and batteries mus not be reb arged.
- Components of the operator as well as old an mulators and batteries mus not be dip on d of with hour hold was e. They mus be dip on d of properly.



⚠ WARNING

Danger for trapped persons! Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ► Tes the operation of the emergeny release regularly from inis de and if nee a ry, als from outs de.
- ► You mus have faults repaired profes onally without delay.

2. General safety instructions



⚠ WARNING

Danger due to projecting parts!
Door leaves or other parts must not project into roads or public footpaths.
This also applies while the door is moving.

This may cause serious injury or death to persons or animals.

 Keep public roads and footpaths bear of projecting parts



∧ WARNING

Danger due to falling parts of doors!

Actuating the emergency release can lead to uncontrolled door movement if

- p rings are weakened or broken.
- the door has not been optimally weight-balane d.

Falling parts may cause a hazard. Severe injuries or death may result.

- ► Check the weight balane of the door at regular intera Is
- ▶ Pay attention to the more ment of the door when the emergency release is at uated
- ► Keep bear of the movement area of the door.



∕N WARNING

Danger of entrapment!
Persons and animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

Keep bear of the movement area of the door.



∕ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the operator when y u have a direct iv ew of the door.
- ► All danger zones mus be it is ble during the entire door operation.
- ► Alway keep the moving door in sight.
- ► Keep persons and animals bear of the range of mose ment of the door.
- ▶ New r put y ur hand near the door or near moiv ng parts when the door is moiv ng. In partia lar, do not reab into the moiv ng pub arm.
- ▶ Do not reab into the e iling s p ens on unit when the motor a rriage is running along the trak.
- ► Do not drive through the door until it has opened o mpletely.
- ► Store the handheld trans itter s that unauthorise d or aic dental operation, e.g., by b ildren or animals is impos ble.
- ▶ New r to and under the opened door.



∕!\ WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

► New r look direct ly into an LED.



NOTE

Dispose of all parts in accordance with local or national regulations to avoid environmental damage.

2. General safety instructions



NOTE

The motor carriage is supplied with safety low voltage via the chain and the track. The use of oil or grease will greatly reduce the conductivity of the chain, track and motor carriage. This may result in faults due to inadequate electrical contact. The chain and track are maintenance-free and must not be oiled or greased.



NOTE

Objects in the movement area of the door may be jammed and damaged.
Objects must not be in the range of movement of the door.

2.2 Additional safety information for the radio remote control

Follow the bas c a fety int rut ions lit ed below.



⚠ WARNING

Danger of crushing and shearing! The door can be actuated by radio. If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ► In partia lar when operating o ntrol elements a b as the radio remote o ntrol, all danger zones mus be iv is ble during the entire door operation.
- ► Alway keep the mov ng door in is ght.
- ► Keep persons and animals bear of the range of more ment of the door.
- New r put y ur hand near the door or near moi/ ng parts when the door is moi/ ng.
- ▶ Do not drive through the door until it has opened o mpletely.
- ► Store the handheld trans itter s that unauthorise d or aic dental operation, e.g., by b ildren or animals is impossible.
- Nee r s and under the opened door.



NOTE

If the door is not in view and the radio remote control is actuated, objects in the movement area of the door may be jammed and damaged.

The radio remote control may only be used if you have a clear view of the door.

The use r of the radio seem is not protected agains interferene due to other teleo mmunia tions equipment or deves. This includes radio-ontrolled seems that are liens doto operate in the sems frequency range. If is gnificant interferene or replease ontact seur ur appropriate teleo mmunia tions office which has radio interferene measuring equipment or radio loation equipment.

You a n find the EC Deb aration of Conformity for the radio here:



http://som4.me/konform-funk

3.1 The operator and its mode of operation

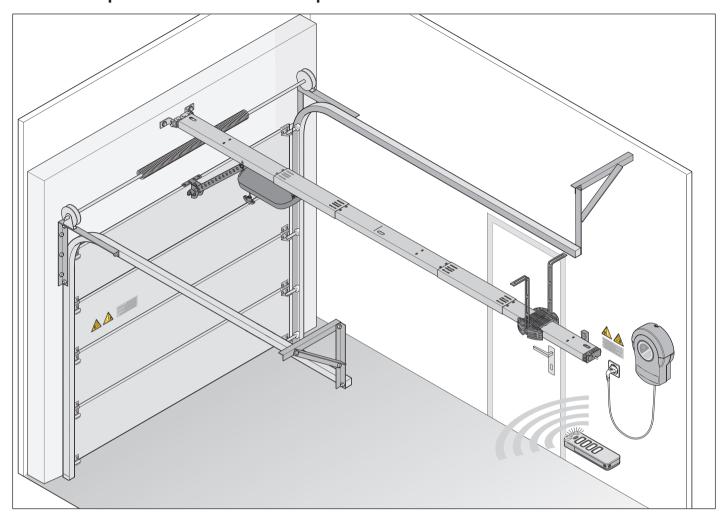


Fig. Door to rut ure with operator

Set ional doors and other door top es a n be opened and toe d with the elet ria lly powered operator and its as ilable ae so ries. The operator and n be on ntrolled, for example, with a handheld transmitter. The door and be opened and toe d with the membrane kepp ad of the wall ontrol unit.

The trak is mounted on the e iling and the lintel above the garage door. The motor a rriage is attab ed to the door by a pub arm. The motor a rriage moves along the trak on a p ring-mounted b ain and opens or boves the door. The handheld transmitter a n be sored in a holder in the garage or in the vehible.

A plug-in light for the wall on trol unit is an ilable as an ae or ry. It is automatially at in ted during operation. The use of ae or ries an arry depending on the top e. For more information on using the operator with different door top es or ae or ries on tat or urp etalis dealer.

3.2 Safety equipment

The operator to ops and reweres to gightly if it enounters an obtacle. This prewents injury and damage to property. The door will be partially or ompletely opened, depending on the etting.

In the event of a power failure, the door an be opened from the inis de iv a an emergency release handle or from the outside with a Bowden wire or emergency release loks. For more information, ontate your pecalis dealer.

3.3 Product designation

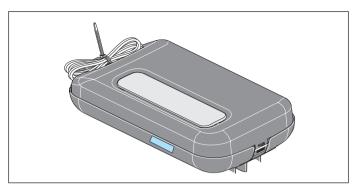


Fig. Motor a rriage with tope plate and deve pecifications. The tope eplate includes

- tp e des gnation
- item number
- date of manufat ure with month and y ar
- e rial number

In a e of questions or e riv e, pleas s pply the tp e designation, the date of manufacture and the e rial number.

3.4 Explanation of tool symbols

Tool symbols

Thee sn bols refer to the use of tools required for integration.





Phillips 6 ewdrie r



Metal drill 5 mm



Mae nry drill 6/10 mm



Fork wrenb 10/13/17 mm



Ratb et wrenb 10/13/17 mm

Other symbols



Drilling depth



Audible engaging or biking noie

3.5 Scope of delivery

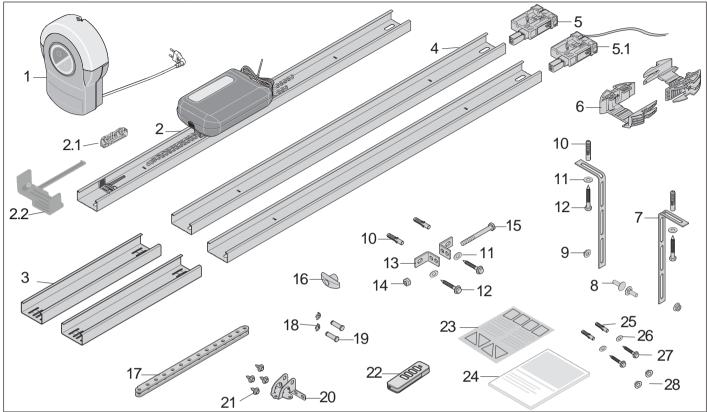


Fig. So pe of delive ry

- 1) Wall o ntrol unit
- Trak, pre-as mbled with 1 x limit stop, b ain and motor a rriage
- 2.1) le lator, pre-assembled on the chain
- 2.2) Limit to op, included with the track
- 3) Connet ing beer \$ 2 x
- 4) Trak, 2 x
- 5) Plug-in unit, pre-assembled
- 5.1) Plug-in unit, **pre-assembled**, with o ntrol a ble, 2-wire, approx 5 m
- 6) Ceiling holder, 2-part
- 7) Perforated \$ rip, angled, 2 x
- 8) Screw M8 x 20 mm, 2 x
- 9) Hexa gonal nut e lf-loksi ng M8, 2 x
- 10) S10 wall plugs 4 x
- 11) Wab er, 4 x
- 12) Screw 8 x 60 mm, 4 x
- 13) Lintel brake t, 2 x
- 14) Hexa gonal nut, e If-lokei ng M10

- 15) Hea gonal head s ew M10 x 100 mm
- 16) Emergeny releas handle
- 17) Pub arm, t raight
- 18) Safety bolt 10 mm, 2 x
- 19) Bolt 10 x 34.5 mm, 2 x
- 20) Door brake t
- 21) Combination e If-tapping s ew, 4 x
- 22) Handheld transn itter, **preprogrammed**, b annel 1 pule e quene, with CR 2032 3 lithium battery
- 23) Information to ike r for garage interior
- 24) Int allation and Operating Manual

Mounting for the wall control unit:

- 25) S6 wall plugs 2 x
- 26) Wah er, 2 x
- 27) Sc ew Ø 4 x 50 mm, 2 x
- 28) End a ps 2 x

When unpaking, make some that all items are included in the pake ges If any hing is mising, ontat some per alist dealer. The actual some ope of deliver ry may some ry depending on the type or or some per fiations

3.6 Dimensions

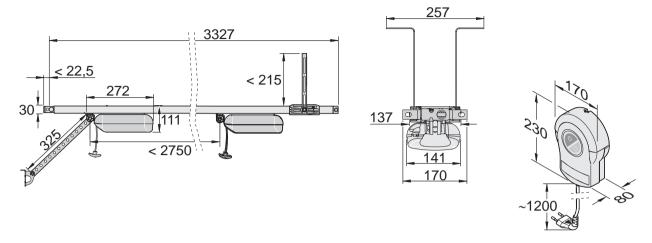


Fig. Dimens ons (all dimens ons are in mm)

3.7 Technical data

| | | S 9050 pro/pro+ | S 9060 pro/pro+ | | |
|---|----------------------|----------------------------|--|---|--|
| Rated voltage | | 220 V - 240 V AC | | | |
| Rated frequency | | 50/60Hz | | | |
| Memory locations | in radio receiver | 40 | | | |
| Duty cycle | | S3 = 40% | | | |
| Operating tempera | ature | 1 −25 °C to 1 +65 °C | | | |
| Emission value according to operating environment | | < 59 dBA – operator only | | | |
| IP protection class | S | IP21 | | | |
| IP-code | | | I | I | |
| Travel length max. | | 2750 mm | | | |
| Travel length inclu | uding extension max. | 3,800 mm (2 x 1,096 mm) | 4,900 mm (2 x 1,096 mm) | | |
| Max. speed | | 180 mm/s | 240 mm/s | | |
| Max. pull and pus | hing force | 500 N | 600N | | |
| Rated pull force | | 150 N | 180 N | | |
| Rated power cons | sumption** | 95 W | | | |
| Power consumption | on (max. load) | 350 W | | | |
| Rated current consumption** | | 0.5 A | | | |
| Power consumption in power-saving mode | | < 3 W / < 1 W | | | |
| Door weight max. | | approx 80 kg | approx 120 kg | | |
| Max. door width / door height* | Sectional doors | | H 1.875 - 2.500 mm B 2.000 - 5.500 mm | | |
| _ | One piece doors | H 1.875 - 2.750 mm | | | |
| May rocommondo | d no. of spaces | B 2.000 - 3.000 mm | | | |
| Max. recommended no. of spaces | | 2 | 30 | | |

^{*} Depending on door and the operating o nditions

^{**} Values apply without lighting

3.8 Door types and accessories

| Do | or type | Accessories | |
|----|---|---|--|
| | One piee door | No ae s ories required | |
| | Set ional door with single trak | Sectional door fitting with u re d push arm* | |
| | Set ional door with double trak | Sectional door fitting without a re d puls arm** | |
| | Set ional ow rhead door | No ae s ries required | |
| | Up-and-o v r door | Cure d arm* | |
| | Hinged double door | Hinged double door fitting* | |
| | Side-opening door, is de- opening e t ional door | Side-opening/Side- opening e t ional door fitting** | |

^{*} Ac es ories not included in the s pe of delive ry

A number of ae s ries are an ilable for the operator.

Here are a few examples:

| Accessories | Function |
|-------------------|--|
| Sens | Pluggable humidity e ne r |
| | If humidity is high, the garage door automatia Ily opens a little, proiv ding entilation |
| Memo | Pluggable EEPROM |
| (red hous ng) | Memory for exp anding the a pair ty of transm itter o mmands from 40 internal to 450 ex ernal |
| Lok | Pluggable loki ng magnet |
| | For meb ania I loki ng of the motor and therefore improvement of break-in protet ion |
| Alarm/ | Pluggable ao us ic s gnal generator |
| warning buzzer | Option of alarm tone when a break-in attempt on rs or a warning tone, for example in the a s of a wike t door o ntac |
| Lae r | Pluggable parking pois tion las r |
| | The parking end position is dip laged by a lager point on the data board |
| Battery pak | Aa mulator |
| | Operator is a pplied with power during a power failure |

For more information on ae so ries so bo as trake extensions additional locking meboanism so to som fittings or different transmitters on tate so ur so et alist dealer or so e:

www.sommer.eu

^{**} The s andard fitting a n also be used depending on the installation to e. Custom fittings are not included in the sope of delivery.

4. Tools and protective equipment

4.1 Required tools and personal protective equipment

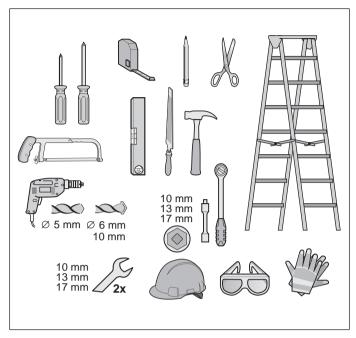


Fig. Reo mmended tools and pero nal protect is equipment for internal allation

You will require the tools **b** own above to as mble and int all the operator. Lay out the required tools beforehand to enver re fat and **a** fe int allation.



Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear a fety glae s when drilling.



⚠ WARNING

Risk of injury in the head region! Impact with suspended objects may cause serious abrasions and cuts.

You mus wear a a fety helmet when int alling a p ended parts



Wear your personal protective equipment. This includes a fety glase s a fety glove s and a a fety helmet.

5. Declaration of Installation

Declaration of Installation

for the int allation of an ino mplete mab ine in ao rdane with the Mab inery Diret is 2006/42/EC, Annex II, Set ion 1 B

SOMMER Antriebs- und Funktechnik GmbH

Hans Bökl er-Straße 21-27 73230 Kirb heim Germany

hereby deb ares that the o ntrol units

CarTeck DRIVE 500 pro, CarTeck DRIVE 600 pro

have been deve loped, designed and manufat ured in o nformity with the:

- Mab inery Direct is 2006/42/EC
- Low Voltage Direct ig 2014/35/EU
- Elet romagnetic Compatibility Diret ig 2014/30/EU
- RoHS Diret ig 2011/65/EU.

The following to andards were applied:

EN ISO 13849-1, PL "C" Cat. 2
 Safety of mab ines - Safety related parts of o ntrols

- Part 1: General des gn guidelines

• EN 60335-1, where applie ble Safety of elet rie I appliane s / operators for doors

EN 61000-6-3
 Elet romagnetic o mpatibility (EMC) - interferene

EN 61000-6-2
 Electromagnetic ompatibility (EMC) - interferene resistane

• EN 60335-2-95 General a fety requirements for house hold and is milar electria.

appliane s - Part 2: Partio lar requirements for operators for e rtia lly

moiving garage doors for reis dential ue

EN 60335-2-103
 General a fety requirements for hous hold and is milar elect ria.

appliane s - Part 2: Spec al requirements for operators for gates doors

and windows

The following requirements of Annex 1 of the Mab inery Direct is 2006/42/EC are met:

1.1.2, 1.1.3, 1.1.5, 1.2.1, 1.2.2, 1.2.3, 1.2.4, 1.2.5, 1.2.6, 1.3.1, 1.3.2, 1.3.4, 1.3.7, 1.5.1, 1.5.4, 1.5.6, 1.5.14, 1.6.1, 1.6.2, 1.6.3, 1.7.1, 1.7.3, 1.7.4

The p ec al teb nia I doa ments have been prepared in ao rdane with Annex VII Part B and are s bmitted electronia Ily to the regulators on request.

The ino mplete mab ine is intended for int allation in a door \$\sqrt{e}\$ em only to form a omplete mab ine as defined by the Mab inery Direct is 2006/42/EC. The door \$\sqrt{e}\$ to em may only be put into operation after it has been et ablit ed that the omplete \$\sqrt{e}\$ em omplies with the regulations of the above EC Direct is .

The unders gned is rep ons ble for o mpilation of the teb nia I doa ments

Kirb heim, 01-12-2017

 ϵ

مامينا مرمط

Rep ons ble for doa ments

6.1 Important information on installation

Please obs re and o mply with all instructions to ens re a fe installation.

Pero ns under the influene of drugs alo hol, or media tions that a n influene their ability to reac may **not** work on the operator.

The int allation of the operator may only be performed by a **qualified specialist**. This Int allation and Operating Manual mut be read, undert ood and o mplied with by a qualified p ec alit who int alls the operator.



⚠ DANGER

Danger if not observed! If safety instructions are not observed, serious injury or death may result.

 All a fety int rut ions mut be o mplied with.



⚠ WARNING

Danger of falling! Unsafe or defective ladders may tip and cause serious or fatal accidents.

- ► Use only a non-b ip, to able ladder.
- ► Ens re that ladders are a fely positioned.



⚠ WARNING

Danger for trapped persons! Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ► Tes the operation of the emergeny release regularly from inis de and if nee sa ry, als from outs de.
- ▶ If there is no e o nd entrane to the garage, yo u mush have a release loke or a Bowden wire for unloke ing from the outside installed. This an be used to free persons who annot free themselves.



⚠ WARNING

Danger due to projecting parts!
Door leaves or other parts must not
project into roads or public footpaths.
This also applies while the door is
moving.

This may cause serious injury or death to persons or animals.

► Keep public roads and footpaths bear of projeting parts



⚠ WARNING

Danger due to falling parts of doors!

If a door is incorrectly weight-balanced, springs may break suddenly. Falling door parts may cause serious injury or death.

Chek:

- ▶ the s ability of the door.
- ► that the door does not bend, rotate or twis when y u open or b ose it.
- that the door runs on oothly in the



⚠ WARNING

Danger due to falling ceiling and wall parts!

The operator cannot be installed correctly if ceiling and walls are unstable or if unsuitable mounting materials are used. Persons or animals may be struck by falling parts of the wall, ceiling or operator. Severe injuries or death may result.

- ➤ You mus tes the sability of the e iling and the walls
- ► Us only permis ble mounting materials appropriate for the s pporting s rfae.



⚠ WARNING

Danger of entrapment! Loose clothing or long hair may be trapped by moving parts of the door. Severe injuries or death may result.

- Keep bear of the moving door.
- Always wear tight-fitting clothing.
- ► Wear a hairnet if v u have long hair.



↑ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ► Only use the operator when y u have a direct iv ew of the door.
- ► All danger zones mut be iv is ble during the entire door operation.
- ► Always keep the moiv ng door in is ght.
- ► Keep pero ns and animals bear of the range of more ment of the door.
- New r put y ur hand near the door or near moiv ng parts when the door is moiv ng. In partia lar, do not reab into the moiv ng pub arm.
- ▶ Do not reab into the e iling s p ens on unit when the motor a rriage is running along the trak.
- ► Do not drie through the door until it has opened o mpletely.
- ► New r to and under the opened door.



∕ WARNING

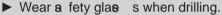
Danger of tripping and falling! Unsafely positioned parts such as packaging, operator parts or tools may cause trips or falls.

- ► Keep the int allation area free of unnee a ry items
- ► Plae all parts where no-one is likely to trip or fall or r them.
- ► The general workplae guidelines mus be obe re d.



⚠ WARNING

Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.





⚠ CAUTION



Risk of injury to hands!
Rough metal parts may cause abrasions and cuts when picked up or touched.

Wear a fety glow s when deburring or performing is milar work.



NOTE

If the ceiling and walls are not stable, parts of the ceiling, walls or the operator may fall. Objects may be damaged. Ceiling and walls must be stable.



NOTE

To prevent damage to the door or operator, use only approved mounting materials such as wall plugs or screws.

The mounting material must be suitable for the material of the ceiling and walls.

This applies particularly for prefabricated garages.



INFORMATION

Ask your specialist dealer if you require additional installation accessories for different installation or attachment situations.

6.2 Preparation for installation

Before interesting allation, by u must be ease whether the operator is so itable for the door, so e also Chapter "3.7 Technical data".

Removal of actuation parts



⚠ WARNING

Danger of entrapment!
Persons or animals may be trapped
by straps or cords and pulled into the
movement zone of the door. Severe
injuries or death may result.

▶ Remove the strain that the strain is a strain of the door.

Before int allation remove:

- manual loki ng on door
- all o rds or t raps nee a ry to operate the door by hand.

Disabling mechanical locks



NOTE

If locks or other locking systems are installed on a mechanical door, they may block the operator. This may cause faults or damage to the operator.

Before the installation of the operator, all mechanical locking systems must be disabled.

The meb ania I lok on a door with an operator mub be remove d or dia bled if it is not o mpatible with the operator.

Checking the mechanism and weight balance



⚠ WARNING

Danger due to falling parts of doors or complete door panels! Wires, spring sets and other fittings can suddenly break. The complete door panel can fall.

Persons or animals may be struck by falling parts of the door or the complete door panel. Severe injuries or death may result.

Before int allation, qualified pero nnel mut b et the following and adapt if nee a ry

- wires, spring sets and other fittings of the door.
- ▶ the weight o mpena tion of the door.



Danger of entrapment!

If the force setting is too high, persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ► The fore s tting is relea int to a fety and mus be a rried out by a qualified specialist.
- ➤ You mus proe ed with ext reme a ution if you be extra and if nee a ry adjust the fore setting.



NOTE

If the weight compensation of the door is incorrectly adjusted, the operator may be damaged.

- The door mus be sable.
- It mus not bend, rotate or twis when opening and bosing.
- The door mus move easily in its traks

 Chek the meb anim s of the door, s b as a bles p ring e ts and other fittings

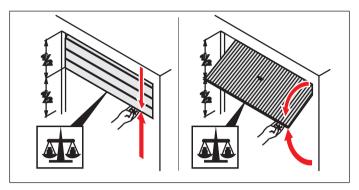


Fig. 2

- 2. Open the door halfway.
 - \Rightarrow The door muth remain in this position.
 - ⇒ The door mus be move deastly by hand and mus be balane d.

If the door move supwards or downwards by ite If, the weight balane of the door mus be adjusted.

Emergency release

In a garage without a e parate entrane (e.g. wike t door), the operator's emergent release mus be operable from outside. The emergent release mus also be routed to be as is ble from the outside. This an be done with a Bowden wire or a release lok. Ak to urp ecalis dealer.

Adjusting the top roll of a sectional door

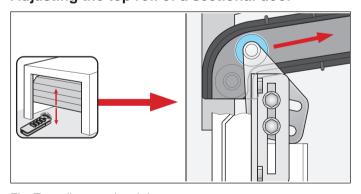


Fig. Top roll on **e t** ional door

If a manually operated $\bf e$ $\bf c$ ional door is retrofitted with an operator, the poistion of the top roll must be $\bf b$ exe $\bf d$ and adjust $\bf e \bf d$ if nee $\bf a$ ry. The top roll must be routed up over the $\bf d$ rve.

6.3 Installing the operator system

The operator may only be intended if the intended allation requirements and dimensions below are or rect.



NOTE

Specify the position for mounting the operator on the door. Manually open and close the door several times. The door must be moved easily.

A manual movement force of 150 N is applicable for private garage doors and 260 N for commercial doors.

The value is applicable for the entire life of the door. The door must also be maintained and inspected as specified by the door manufacturer.

Selecting the installation variant

The speed delivery offers the option of implementing the following introduced a riants. Cheke spur specific is tuation and specification the optimum into allation are riant for spur.

Installation situation A, B and C

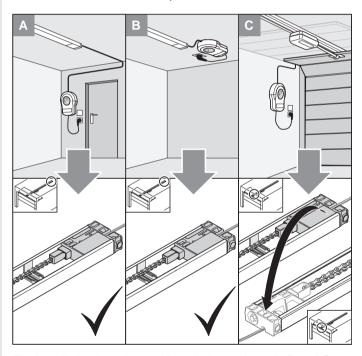


Fig. Int allation is tuation and int allation a riants A, B and C

Installation variant A

This a riant is elected if there is a eparate entrane to the garage. The wall ontrol unit is interpreted near a power outlet. The integrated membrane kepp ad of the wall ontrol unit an be used to open the door when entering the garage or to bose the door when leaving the garage. The ontrol able is led out at the rear end of the trak, see Chapter "6.5 Installing the operator system for installation variants A and B."

Installation variant B

This a riant is e let ed when an ext ing deve is being replae d by a new one and there is already a power outlet or other o ntrol lines a b as buttons or photoe lls in this area. Here, the wall o ntrol unit is mounted on the e iling in the rear area of the trak. The o ntrol a ble of the plug-in unit is also led out at the rear end of the trak, e e b apter "6.5 Installing the operator system for installation variants A and B."

Installation variant C

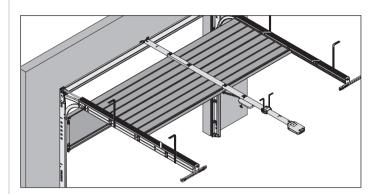
This ve ris on is ve let ed when there is a power outlet while a n be used for the wall on ntrol unit load ted near the door opening. Here, the ontrol able is led out at the front end of the trake, ve e bapter "6.6 Installing the operator system for installation variant C."

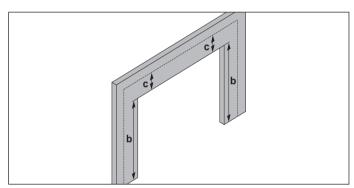
6.4 Installation on the door



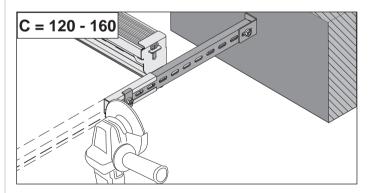
INFORMATION

Because the track of the operator and the rear distance track are on the same level, the distance track must be severed and displaced.

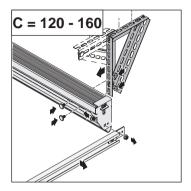




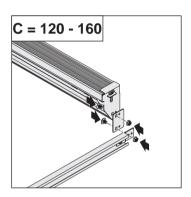
Version 1

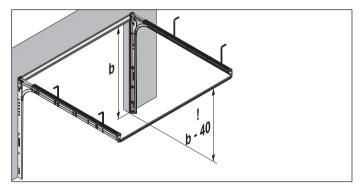


Version 2



Version 3





6.5 Installing the operator system for installation variants A and B

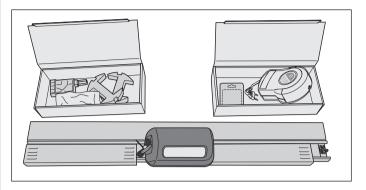


Fig. 1



CAUTION

Risk of injury to hands!
Rough metal parts may cause abrasions and cuts when picked up or touched.



You mut wear a fety glow s when working with rough metal parts.

1. Open the paka ge.

Plae the two a rtons in the paka ge beis de the traks and open them.

Chek the entire o ntents agains the o pe of delivery, or e b apter "3.5 Scope of delivery."

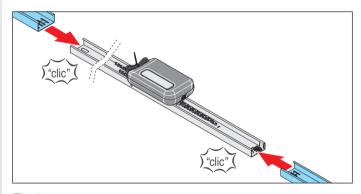


Fig. 2

2. Remove the two onnet ing seeves being the motor a rriage and attable to the trake on the left and right.

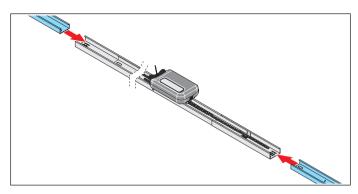


Fig. 3

3. Attab a trake to eab of the onnet ing beenes

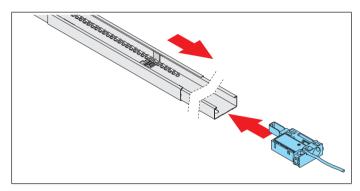
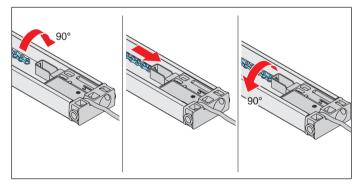


Fig. 4

 Plug the plug-in unit with control cable into the trake behind the limit to op.
 Lay the bain of r the limit to op.



Fia. 5

5. Rotate the b ain 90° and ine rt it into the b ain holder of the **plug-in unit with control cable**. Rotate the b ain bak 90°.

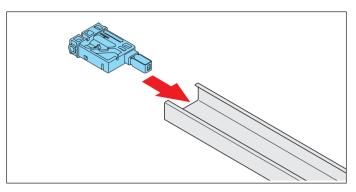


Fig. 6

6. Plug the plug-in unit without o ntrol a ble in on the opposite is de of the trak.

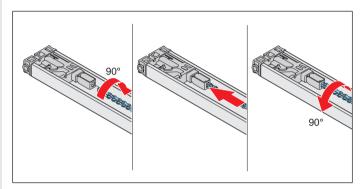


Fig. 7

\Longrightarrow

NOTE

The chain must be parallel to the track to prevent damage to the operator.

- 7. Rotate the b ain 90° and insert it into the chain holder of the plug-in unit without control cable. Rotate the b ain bak 90°.
 - ⇒ The entire b ain is attab ed.

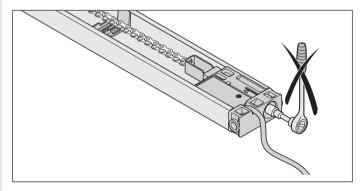


Fig. Plug-in unit with o ntrol a ble



NOIE

The plug-in unit with control cable must not be tensioned.

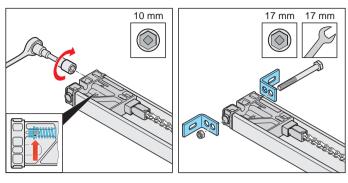


Fig. 8

Fig. 9

- 8. Tens on the b ain to the mark on the plug-in unit without control cable, s e arrow in the detailed iv ew.
- Fat en the two header brake to the plug-in unit without control cable with s ew and nut.

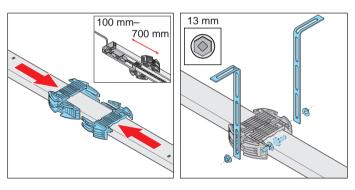


Fig. 10

Fig. 11

- 10. Turn the trak to int all the e iling brake t. The dist ane between the rear plug-in unit with control cable and the e iling holder b ould be 100 - 700 mm.
 - Plae the e iling holder on the trak and bide into one another.
- 11. Fat en the perforated to rips to the e iling holder on the left and right. Also obe returned the distance so for interval allation to the e iling or lintel.
 - ⇒ The trak is prepared for the remainder of the ins allation.

For further int allation, e e Chapter "6.7 Installation on the door."

6.6 Installing the operator system for installation variant C

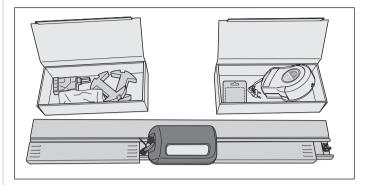


Fig. 1



↑ CAUTION

Risk of injury to hands!
Rough metal parts may cause abrasions and cuts when picked up or touched.



You mus wear a fety glow s when working with rough metal parts.

1. Open the paka ge.

Plae the two a rtons in the pake ge beis de the traks and open them.

Chek the entire on tents agains the peof delivery listed in this Installation and Operating Manual, peb apter "3.5 Scope of delivery."

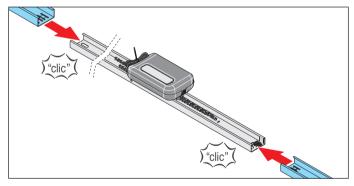


Fig. 2

2. Remove the two onneting seeves beside the motor a rriage and attab to the trak on the left and right.

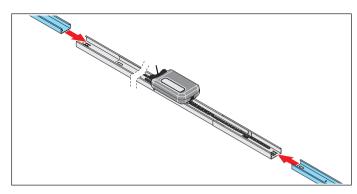


Fig. 3

3. Attab a trake to eab of the onnet ing beenes

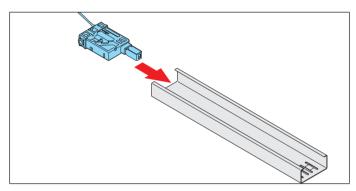


Fig. 4

4. Plug the **plug-in unit with control cable** into the trake behind the limit to op.

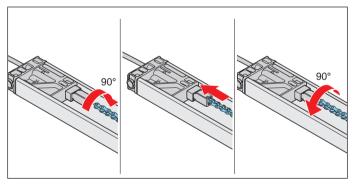


Fig. 5



NOTE

The chain must be parallel to the track to prevent damage to the operator.

5. Rotate the b ain 90° and ine rt it into the b ain holder of the **plug-in unit with control cable**. Rotate the b ain bak 90°.

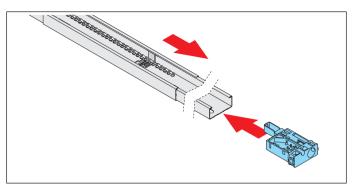


Fig. 6

 Plug the plug-in unit without control cable in on the opposite is de of the trakt.
 Lay the end of the b ain over the limit is op.

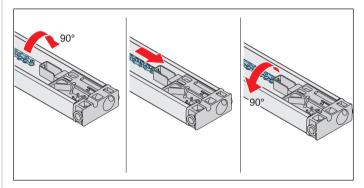


Fig. 7

- 7. Rotate the b ain 90° and ine rt it into the b ain holder of the plug-in unit with control cable. Rotate the b ain bak 90°.
 - \Rightarrow The entire b ain is attab ed.

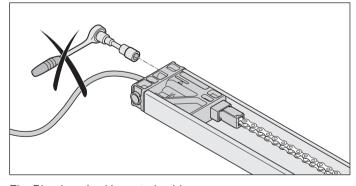


Fig. Plug-in unit with o ntrol a ble



NOTE

The plug-in unit with control cable must not be tensioned.

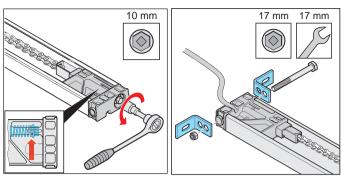


Fig. 8

Fig. 9

- 8. Tens on the b ain to the mark on the plug-in unit without control cable, e e arrow in the detailed iv ew.
- 9. Fat en the two header brake to the plug-in unit with control cable with s ew and nut.

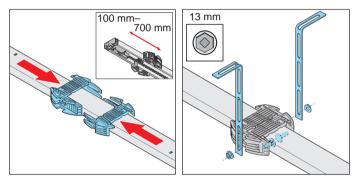


Fig. 10

Fig. 11

- 10. Turn the trak to int all the e iling brake t. The dist ane between the rear plug-in unit without control cable and the e iling holder to ould be 100 - 700 mm.
 - Plae the e iling holder on the trak and bide into one another.
- 11. Fas en the perforated s rips to the e iling holder on the left and right. Also observe the distance s for installation to the e iling or lintel.
 - ⇒ The trak is prepared for the remainder of the ins allation.

For further into allation, e e b apter "6.7 Installation on the door."

6.7 Installation on the door

As interaction on the door is a milar for a riants A, B and C, interaction on the door is only described for a riants A and B.

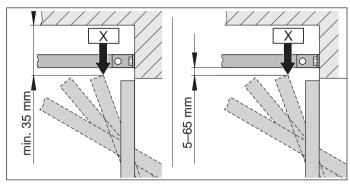


Fig. 1.1 Highes running point for one piee and up-and-over doors

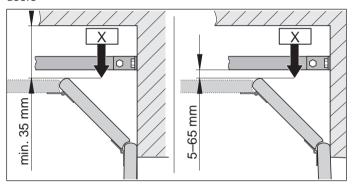


Fig. 1.2 Highes running point for a e t ional door



INFORMATION

If the distance between the ceiling and the bottom edge of the track is greater than 245 mm, extend the ceiling holders with additional perforated strips.

 Meas re the highes running point of the door "X" depending on the door tp e:

Open the door and meas re the bos to distane (min. 35 mm) between the top edge of the door and the e illing.

The dis ane between "X" and the bottom edge of the trak mus be at leas 5 mm and no more than 65 mm.

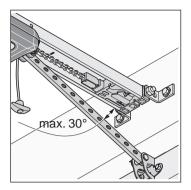


Fig. 2



INFORMATION

The distance may be reduced if a door handle is attached to the middle of the door. The door must be able to run freely.

2. The puls arm muls be at a max angle of 30° with the door bos d.

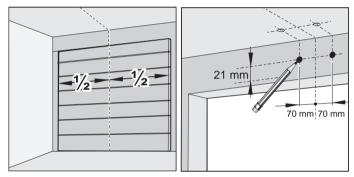


Fig. 3

Fig. 4

- 3. Cloe the door.
 - Selet the lintel or e iling for int allation.

 Meas re the e ntre of the door at the front and mark the position on the door and the lintel or e iling.
- 4. Mark points 70 mm to the right and left of the e ntre of the door at the a me height on the lintel or e iling.

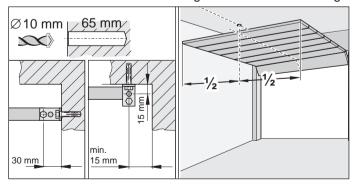


Fig. 5

Fig. 6



NOTE

Cover the operator during drilling to prevent dirt from entering the operator unit and damaging it.



INFORMATION

If installing on the ceiling, space the drill holes 15 mm apart if possible. This reduces the tilting angle of the mounting bracket.

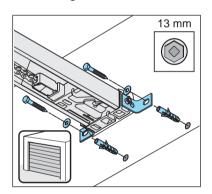


INFORMATION

The drilling depth must be considered with respect to the ceiling and wall thickness, particularly with prefabricated garages. It may be necessary to reduce the hole depth.

Only use permissible mounting materials appropriate for the supporting surface.

- Drill two holes (Ø 10 x 65 mm deep) in the e iling or lintel.
- Open the door.Trans er the mark from the e ntre of the door to the



e iling at the rear.

Fig. 7

7. Cloe the door.

Ine rt the wall plug into the lintel or e iling. Lift the trak at the front.

Screw the lintel fitting at the front to the lintel or e iling with two s ews and the was ers Tighten the s ews

 \Rightarrow The trake is attable d to the linter or e iling.

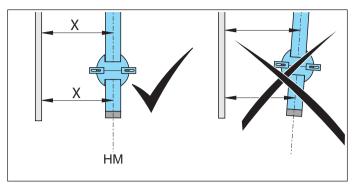


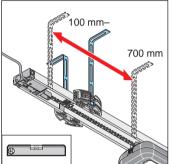
Fig. 8



NOTE

The operator must always be installed parallel to the tracks of the door to prevent damage to the operator and the tracks.

8. Align the operator parallel to the traks of the door.



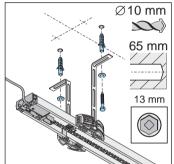


Fig. 9

Fig. 10

- 9. Align the trake parallel to entre of the door at the rear. Align the eiling brake t.

 The distance between the rear plug-in unit and the eiling holder is ould be approx 100 700 mm.

 The eiling brake the ould be interested in this area. Cheke the alignment of the trake with a print level if nee in ry.
- 10. Mark the holes for the e iling holder on the e iling. Drill two holes (Ø 10 x 65 mm deep).
 Ine rt the wall plugs
 Ine rt two s ews with was ers and s ew to the e iling with the perforated s rips Tighten the s ews
 ⇒ The trak is attab ed to the e iling.

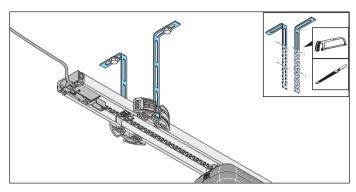
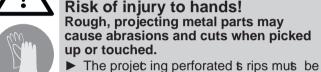


Fig. 11



CAUTION



- sawn off and deburred to prevent injury.
- Wear a fety glow s when deburring.



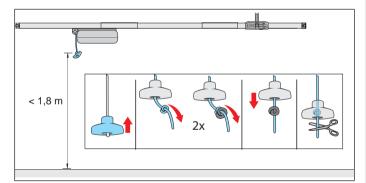


Fig. 12



WARNING

Danger of entrapment! Persons or animals in the movement area of the door may be trapped in a loop of the emergency release cord and the door may be accidentally unlocked. Severe injuries or death may result.

The emergent release handle whib is included muts be ue d.



NOTE

The emergency release handle may cause damage, e.g. scratches on the vehicle. The distance between the garage floor and the emergency release cord must be less than 1.8 m.

The emergency release handle must be at least 50 mm from moving and fixed parts throughout its complete travel path.

12. Attab the emergent releas handle: Pull the o rd through the emergent releas handle. Tie a double knot in the o rd at an appropriate point. Pull the emergent releas handle or r the double knot. If nee a ry, a orten the o rd or lengthen it with s itable materials

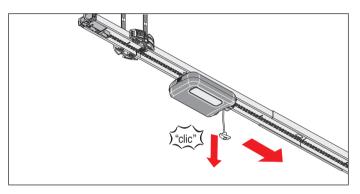


Fig. 13

13. Pull the emergenty release o rd one to unlok the motor a rriage.

Slide the motor a rriage forward to the door.

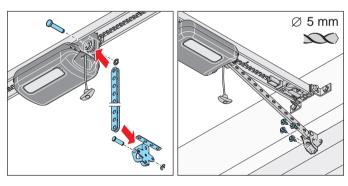


Fig. 14

Fig. 15



WARNING

Risk of injury in the head region! Impact with suspended objects may cause serious abrasions and cuts.

You mus wear a a fety helmet when ins alling s p ended parts

- 14. Plug the pub arm into the door brake t. Ins rt the bolt and b ide on the a fety bolt.
 Plug the pub arm into the motor a rriage at the front. Ins rt the bolt and b ide on the a fety bolt.
- 15. Align the door brake t with the e ntre of the door. Mark the pois tion of the holes and drill them (Ø 5 mm). Fix the door brake t to the door with the heat gon bolts
 - ⇒ The pub arm is attab ed to the motor a rriage and the door.

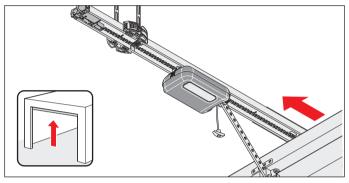


Fig. 16



NOTE

The door must not rub against the operator or tracks. This could damage the operator or tracks. The operator must be offset.

- 16. Open the door o mpletely by hand.
 If the door rubs agains the operator or the traks
 the operator must be offe t.
 - ⇒ The limit to op move s automatia. Ily with the motor a rriage.

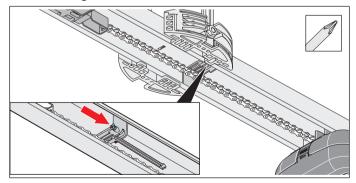


Fig. 17



NOTE

Do not push the door all the way to the mechanical stop. This is because otherwise, the operator will pull the door against the mechanical stop. This will apply tension to the door and it may be damaged.

A clearance of about 30 mm is required.



INFORMATION

The limit stop can be subsequently pushed under the chain and screwed into the track. Then screw the limit stop tightly to the track at the respective spot.

- 17. Tighten the s ew on the limit s op with a Phillips s ewdrive r without b anging its position.

 Chek the door OPEN end position:

 Open the door fully for this The motor a rriage move s towards the door OPEN position on the limit s op until a bik noive is heard.
 - \Rightarrow The door OPEN end pois tion is **e** t.

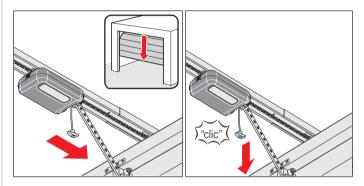


Fig. 18

Fig. 19



NOTE

In the case of an emergency release, the door could independently open or close itself due to a broken spring or incorrect setting of the weight balancing. The operator could be damaged or destroyed. Check the emergency release regularly.



INFORMATION

It can be locked and released in any door position.

- 18. Mor door to e ntre pos tion.
 - ⇒ The motor a rriage move s with it.
- 19. Pull the emergent releas o rd.
 - ⇒ The motor carriage is locked.
 - ⇒ The door a n only be move d by the operator.
- 20. Chek to make s re that no part of the door projet s into public footpaths or roads



⚠ WARNING

Danger due to projecting parts!
Door leaves or other parts must not project into roads or public footpaths.
This also applies while the door is moving.

This may cause serious injury or death to persons or animals.

- Keep public roads and footpaths bear of projet ing parts
- ⇒ Installation of the operator is complete.

6.8 Installing the wall control unit

In partia lar, follow the basic a fety interructions lit ed below.



⚠ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ► All work on elet ria I o mponents mut be a rried out by a trained electrician.
- Before ine rting the mains power plug for the first time, ensure that the voltage of the power e ure math es the
 tage list ed on the operator tp e plate.
- ► Do not o nnet the power s pply until ins allation is o mplete.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, dio nnet it from the ontrol unit.
- ► Chek that the operator is not live.
- Sea re the operator against being with ed bak on.



MARNING

Danger of crushing and shearing! The door can be actuated via the wall switch.

If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ► The wall o ntrol unit with kep ad mus be mounted within is ght of the door.
- ➤ The wall o ntrol unit mus not be installed in the direct is nity of moising parts
- The membrane kep ad of the wall o ntrol unit mus be installed at a height of at leas 1.6 m.



NOTE

To prevent damage to the operator, do not connect the wall control unit to the power supply until installation is complete.



INFORMATION

The power cable is approx. 1.2 m long.



INFORMATION

The power cord that has been provided must not be shortened or extended. All devices to be connected externally must have safe isolation of the contacts from the mains voltage supply in accordance with IEC 60364-4-41.

Wiring for external devices must be installed in accordance with IEC 60364-4-41. All electrical wiring, including the control cable, must be firmly secured to prevent displacement.

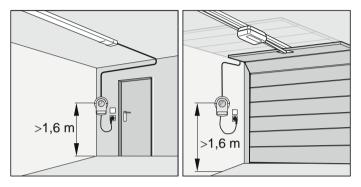


Fig. 1



INFORMATION

The drilling depth must be considered with respect to the ceiling and wall thickness, particularly with prefabricated garages. It may be necessary to reduce the hole depth.

Only use permissible mounting materials appropriate for the supporting surface.

1. Choose as itable loa tion for the wall on trol unit bos to an existing power outlet.

The mak mum length of the o ntrol a ble is 5 m, and it mut not be ext ended.

Note that the distance between the wall on trol unit and the power outlet must not execute ed 1.1 m.

The membrane kep ad of the wall on trol unit musbe insalled at a height of at leas 1.6 m.

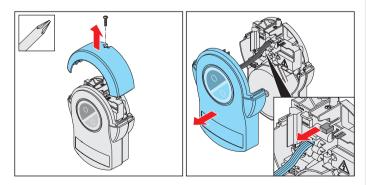


Fig. 2

Fig. 3

NOTE

The control unit cover is connected to the circuit board of the wall control unit via a connection cable.

If an accumulator has been installed, it is also connected to the circuit board. Carefully remove the control unit cover and unplug the connections. This prevents damage to the wall control unit.

- 2. Loos in the s ews on the wall unit of the light o e r and remove the light o e r upwards. Hold the front o e r firmly while doing s.
- 3. Remove the o ntrol unit o ver gently towards the front and unplug the onnet ion a ble for the membrane kep ad from the wall ontrol unit.

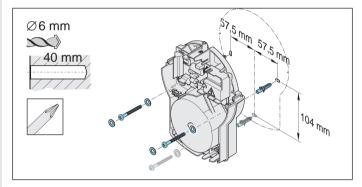


Fig. 4: Int allation ex mple



MARNING



Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear a fety glae s when drilling.

- 4. Trans er the mounting points to the s bs rut ure. Drill two holes (Ø 6 x 40 mm deep). Ine rt the two wall plugs Affix the wall o ntrol unit with two s ews and two was ers align the unit and firmly tighten the s ews Pres the end a ps into the indentation to s al the
- 5. Route the o ntrol a ble of the plug-in unit up to the wall o ntrol unit and e a re to pree nt dip lacement.

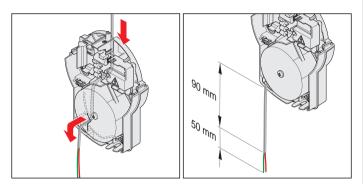


Fig. 6

houis ng.

Fig. 7

- 6. Lay the o ntrol a ble along the a ble o nduit on the rear is de of the wall o ntrol unit up to the a ble inlet. Feed the o ntrol a ble into the wall o ntrol unit through the a ble inlet.
- 7. Shorten the o ntrol a ble to no les than 140 mm in length, uno & r the las 50 mm and s rip the wires

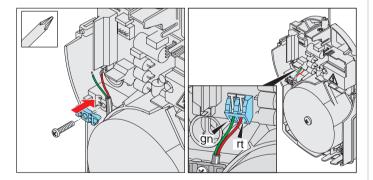


Fig. 8

Fig. 9

8. Route the o ntrol a ble in the wall o ntrol unit along the trans ormer up to the **gr/rd** terminal.

Sea re the o ntrol a ble with the upper s rain relief to prevent displacement.

- 9. Connet the **green** wire of the ontrol able to the **gn** terminal.
 - Connet the red wire of the o ntrol a ble to the rd terminal.
- 10. Clos the housing in reverse order.
- ⇒ Int allation of the wall o ntrol unit is o mplete.

 Other o nnet ion options s b as buttons or warning light are des ibed in b apter "11. Connections and special functions of the wall control unit."

7. Removing and fastening covers

7.1 Cover of the motor carriage

Obe re in partia lar the following a fety int rut ions for this b apter.



⚠ WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

Nee r look direct ly into an LED.



∧ WARNING

Danger due to hot surfaces!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

► Allow the operator to o ol down before removing the o vertical removers.

Removing the cover

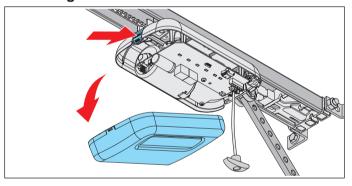


Fig. 1

1. Pres on the o ver loke at the bake of the motor a rriage and remove the o ver.

7.2 Installing the cover

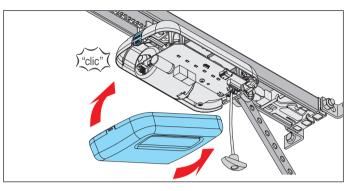


Fig. 1

1. Ine rt the o ver from the front and loke it to the motor a rriage at the bake.

7. Removing and fastening covers

7.3 Light and control unit cover of the wall control unit



↑ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ► All work on electria I o mponents mus be a rried out by a trained electrician.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, dis nnet it from the ontrol unit.
- ► Check that the operator is not lige.
- Sea re the operator agains being
 w itb ed bak on.



WARNING

Danger due to hot surfaces!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

Allow the operator to o ol down before removing the o ♥ r.

Removing the light and control unit cover

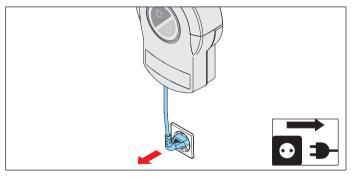


Fig. 1

1. Diso nnet the operator from the mains voltage. Cheke that the operator is disonnet ed from the power sopply.

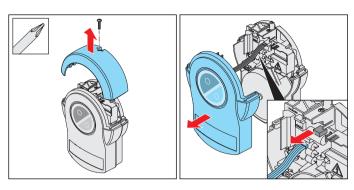


Fig. 2

Fig. 3

 Uns ew the light o er from the wall on trol unit and remove it upwards. Hold the front o er firmly while doing s.



NOTE

The control unit cover is connected to the circuit board of the wall control unit via a connection cable.

If an accumulator has been installed, it is also connected to the circuit board. Carefully remove the control unit cover and disconnect the connections to prevent damage to the wall control unit.

- 3. Remove the o ntrol unit over gently towards the front and unplug the onnet ion a ble for the membrane kep ad from the wall ontrol unit.
- If an ac mulator is us d, it mus als be dis nnet ed, s e Chapter "11.12 Installing and removing the accumulator."
- 5. Remove the o ntrol unit o ver.

Attaching the light and control unit cover

- 1. After working on the wall o ntrol unit, replae the o we r in rewere order.
- 2. Connet the operator to the mains voltage. Cheke that the power so pply is on net ed.
 - \Rightarrow The operator is **s** pplied with mains **v** Itage.

8. Electrical connection

8.1 Connection to a power outlet

A power outlet is required for the elet ria 1 o nnet ion of the operator.

A power outlet mus be intalled by a trained electrician. The power outlet mus be protected by a fus. Local and national intallation regulations (e.g. VDE) mus be obe red.

Pers ns under the influene of drugs alo hol, or media tions that a n influene their ability to reac may **not** work on the operator.

Obe re in partia lar the following a fety into rut ions for this b apter.



↑ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ► All work on electria I o mponents mus be a rried out by a trained electrician.
- ► Before ine rting the mains power plug for the first time, ensure that the voltage of the power ensure math es the list ed on the operator to e plate.
- ► Do not onnet the power sopply until installation is omplete.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, dis nnet it from the ontrol unit.
- ► Check that the operator is not lie.
- ► Sea re the operator agains being witched bak on.



NOTE

To prevent damage to the operator, do not connect the wall control unit to the power supply until installation is complete.

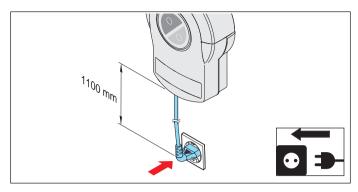


Fig. Dis ane between wall o ntrol unit and power outlet

Note that the dis ane between the wall o ntrol unit and
the power outlet mus not ene ed 1.1 m.



INFORMATION

The power outlet must be installed as follows:

- within easy reab of the wall o ntrol unit power a ble
- eas ly iv is ble and be ear of obta be es



INFORMATION

The power cable is approx. 1.2 m long.



INFORMATION

The power cord that has been provided may not be shortened or extended.
All devices to be connected externally must have safe isolation of the contacts from the mains voltage supply in accordance with IEC 60364-4-41.

Wiring for external devices must be installed in accordance with IEC 60364-4-41. All electrical wiring, including the control cable, must be firmly secured to prevent displacement.

9.1 Safety information for initial operation

Obe re in partia lar the following a fety into rub ions for this b apter.



⚠ WARNING

Danger of entrapment!
Persons and animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ▶ Keep b ear of the moving door.
- Always wear tight-fitting clothing.
- ► Wear a hairnet if y u have long hair.



∕ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- Only us the operator when y u have a direct iv ew of the door.
- ► All danger zones mus be iv is ble during the entire door operation.
- ► Always keep the mov ng door in is ght.
- ► Keep pers ns and animals bear of the range of mose ment of the door.
- New r put y ur hand near the door or near moiv ng parts when the door is moiv ng. In partia lar, do not reab into the moiv ng pub arm.
- ► Do not reab into the e iling s p ens on unit when the motor a rriage is running along the trak.
- ► Do not drie through the door until it has opened o mpletely.
- New r s and under the opened door.



№ WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

► New r look direct ly into an LED.



NOTE

Objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

The control unit detects a short-circuit between chain and track and then switches the operator off. If the short circuit is no longer present, the operator runs normally again.



INFORMATION

If a photocell is used, it must not be actuated when starting the programming. If a photocell is used as a frame photocell, move the door to the centre position.

9.2 Initial operation

Before initial operation, read this **b** apter with **p** ecial **a** re to ens re that **y** u a n make the adjust ments to the operator **a** fely and optimally.



⚠ WARNING

Danger of entrapment!
If the force setting is too high, persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ► The fore se tting is relea int to a fety and mus be a rried out by a qualified specialist.
- You mus proe ed with ex reme a ution if y u b ex and if nee a ry adjus the fore e tting.
- ► Please note that the operator may only be operated if a non-hazardous fore a lue has been s t.
- Select the fore e tting low enough to eliminate any danger of injury by the bosing fore.



NOTE

Do not use a metal object to set the DIP switches, because this may damage the DIP switches or the circuit board. Use a suitable tool, for example a flat plastic object, to set the DIP switches.



INFORMATION

The force setting must be checked after installation of the operator, see also chapter "13.1 Testing obstacle detection."

For o mpliane with EN 13241-1, before initial operation, the door tp e mus be e let ed and e t on the motor e rriage with the DIP e itb .

The fact ory setting of the DIP sw ith es on the motor a rriage is "OFF," while is then applied ble for set ional doors

| 400.0 | | | |
|-------|---|--|--|
| | switch on or carriage | ON | OFF A |
| 1 | NO 1 2 4 8 8 4 4 | Automatic b os ng funt ion at is ted | Automatic b os ng funt ion deactise ted |
| 2 | ON 1234 | Partial opening at is ted/ Lighting funt ion deat is ted | Partial opening deactia ted/ Lighting function at ivated |
| 3+4 | 0 L N S 8 8 | | |
| 3 | 0 1 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |
| 4 | 00 12 4 | | |

The motor a rriage has an automatic fore e tting. The motor a rriage memorie s the required fore during the door OPEN and CLOSE more ments and s ores it when the end pois tion has been reab ed.



INFORMATION During initial operation:

- Stay in the garage, partial larly when programming.
- Obs ab e detection is not p to ordinated to the door, and the operator is in the programming phae.



INFORMATION

Programming can be carried out via a handheld transmitter, the membrane keypad or an external button.



INFORMATION

The operating forces can be modified and adjusted with SOMlink and a WiFi-enabled device.

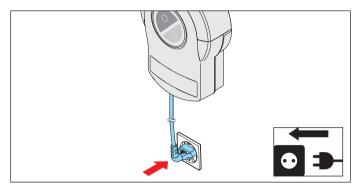


Fig. 1

- Compare the ek to ing power to pply with the type plate.
 - Connet the operator with the mains voltage.
 - ⇒ The status LED of the motor carriage flashes green.

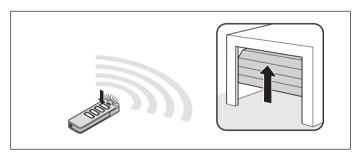


Fig. 2

- After the operator has been on net ed to the power spply, its firs more ment after a pule is always door OPEN.
 - Briefly pres button 1 on the preprogrammed handheld trans itter. See als the s parate instructions for the "Handheld trans itter."
 - ⇒ The motor a rriage moves be only to the door OPEN end poistion and automatically we itches off at the limit stop.
 - ⇒ The operator lighting flashes.

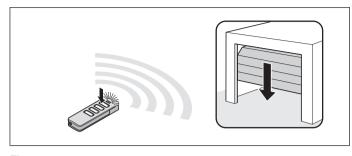


Fig. 3

- Pres button 1 on the handheld transn itter again briefly.
 - ⇒ The motor a rriage more s s owly in the door CLOSE direct ion. The LEDs of the operator lighting flash.
 - The motor carriage switches off **automatically** when it reab es the fat ory **e** t bois ng fore at the door CLOSE end pois tion.
 - \Rightarrow The operator lighting flashes in a different ${\bf e}$ quene .

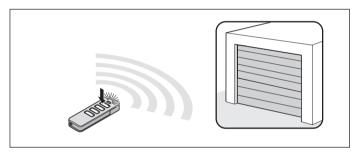


Fig. 4

- 4. Pres button 1 on the handheld transn itter **briefly** (< 1 s o nd) to a s the end position.
 - ⇒ The operator lighting flashes briefly in a fast e quene .

The operator automatically starts its programming process:

- ⇒ The motor a rriage more s automatically to the door OPEN end position again and programs the required operating fore .
- ⇒ The motor a rriage automatically moves to the door CLOSE end poistion.
 - If nee a ry, the motor a rriage move sover the path sover al times for programming with a greater door weight.
- ⇒ The motor a rriage automatically moves briefly in the door OPEN direction to program the soft run.
- ⇒ The door **automatically** returns to the door CLOSE end pos tion.
- ⇒ The motor a rriage automatically moves to the door OPEN end pois tion.

- ⇒ The LEDs of the operator lighting remain **steady**.
- ⇒ Operator is programmed and ready for use.



INFORMATION

The motor carriage stops if the door is difficult to move. The door mechanism must be checked, see Chapter "9.3 Detecting obstacles during the force programming run."

It may be nee a ry to adjut the end positions See Chapter "9.4 Mechanical adjustment of the end positions."

9.3 Detecting obstacles during the force programming run

If the door detet s an obs able during the OPEN and CLOSE door most ments and the fore programming run a nnot be ompleted, the door sops



NOTE

Check the travel path, mechanism, spring tension and the weight balance to prevent damage to the door system.

- Press and hold button 1 on the handheld trans itter.
 - ⇒ The motor a rriage moves briefly and then moves on tinuous y in the door CLOSE direction until the desired end position has been reabled.
- 2. Releas button 1 on the handheld transn itter.
- 3. Fine adjustment:

Press and hold button 1 on the handheld transn itter until the motor a rriage moves briefly.

Release button 1 on the handheld transn itter.

4. The proe s a n be repeated until the des red end pos tion is reab ed.

Pres button 1 on the handheld transn itter **briefly** (< 1 s o nd) to a s the door CLOSE end position.

- ⇒ The motor a rriage that the automatic force programming run to the door OPEN end position.
- ⇒ The door to arts the **automatic** door CLOSE fore programming run.

If an obt at e is detected again, the motor a rriage to ops and reverse sate or distance.

- Press and hold button 1 on the handheld transm itter.
 - ⇒ The motor a rriage s arts without jerking, bea us the end position of the door is already a v d.
 - \Rightarrow The motor **a** rriage moves to the end position.
- 2. Release button 1 on the handheld transn itter.

- 3. Pres button 1 on the handheld transn itter briefly.
 - ⇒ Automatic force programming runs start again.
 - ⇒ On o mpletion of the fore programming runs the motor a rriage automatically moves to the door OPEN end pois tion.
 - ⇒ The LEDs of the operator lighting remain **steady**.
 - ⇒ Operator is programmed and ready for use.

9.4 Mechanical adjustment of the end positions

Increasing the closing pressure of the end position for door CLOSE

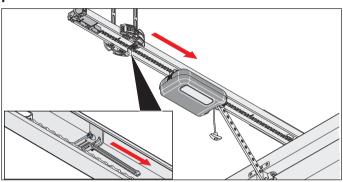


Fig. 1

- Loos n the s ew on the limit s op and move the limit s op a few millimetres towards door CLOSE. Re-tighten the s ew.
- 2. The function of the emergency release must be be eksed in the door CLOSE end position. Unloksing must be positive.

Reducing the closing pressure of the end position for door CLOSE

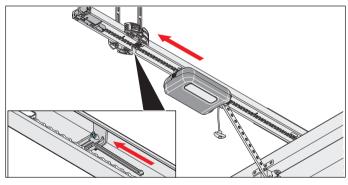


Fig. 1

 Looe n the s ew on the limit s op and move the limit s op a few millimetres towards door OPEN. Re-tighten the s ew.



NOTE

Do not push the door all the way to the mechanical stop. This is because otherwise, the operator will pull the door against the mechanical stop. This will apply tension to the door and it may be damaged. A clearance of 30 mm is required.

9.5 Attaching information sign and warning signs

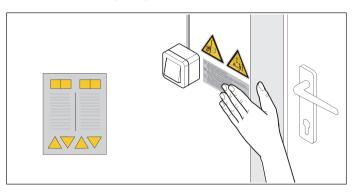


Fig. 1.1 Attab tike r near the t ationary o ntrol or o ntrol unit

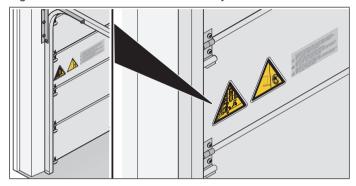


Fig. 1.2 Attab to ike ron door panel

- Attab the warning is gns and information is gn at a beaned and degrease d point:
- · far from moi ng parts
- near the s ationary o ntrol or o ntrol unit
- at ex leve I in a highly is ble et ion of the door leaf
- Carry out obs ab e detection, e e b apter
 "13.1 Testing obstacle detection."
 - ⇒ Initial operation is complete.

10. Connections and special functions of the motor carriage

10.1 Motor carriage circuit board

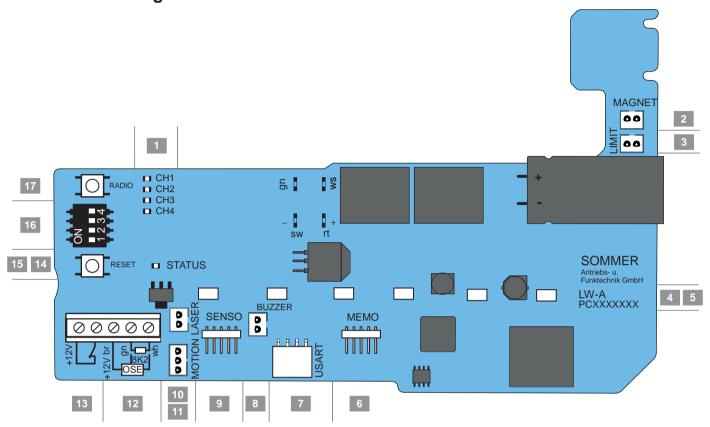


Fig. Motor a rriage c ra it board (o mplete & ris on*)

Connection options on the motor carriage

| 1 | LED, CH 1 - CH 4, red | 10 | LASER & ot, white |
|---|----------------------------------|--------|---------------------------------------|
| | Dip lay for radio b annel | | Parking pois tion las r terminal |
| 2 | MAGNET slot, green | 11 | MOTION & ot, white, 3-pin |
| | Lok terminal | | Terminal for movement en s r |
| 3 | LIMIT bot, blue | 12 | Terminal for a fety o ntat s rip |
| | Limit w ith terminal (OPEN) | | 8k2/OSE |
| 4 | Cira it board label | 13 | Terminal for wike t door a fety deve, |
| | | | potential-free |
| 5 | LEDs operator lighting | 12/ 13 | Terminal 12 V DC, max 100 mA |
| 6 | MEMO b ot | 14 | Status LED, green |
| | Memo terminal | | |
| 7 | USART b ot | 15 | Ree t button, green |
| | Interfae | | |
| 8 | BUZZER & ot, blak | 16 | DIP sw ith es |
| | Warning or alarm buzzer terminal | | |
| 9 | SENSO b ot | 17 | Radio button, red |
| | Sene terminal | | |

^{*} The verision a now ry depending on the top e. This means the use of ase so ries a now ry.

A o nnet ion diagram a n be found in b apter "19. Connection diagrams and functions of the DIP switches"

Connections and special functions of the motor carriage

10.2 Connection options on the motor carriage

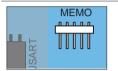
Circuit board section

Function/ application example



MAGNET slot, green

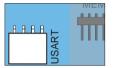
Lok terminal Loki ng magnet



MEMO slot

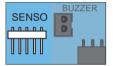
Memo terminal

Memory et ens on for 450 transn itter o mmands



USART slot

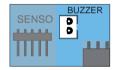
Terminal, e.g. home automation module



SENSO slot

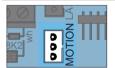
Sene terminal

Humidity e no r



BUZZER slot, black

Terminal for warning or alarm buzzer



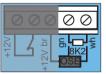
MOTION slot, white

Terminal for movement on nsor 3-pin



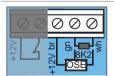
LASER slot, white

Terminal for parking position lae r



Terminal blok

8k2 safety contact strip



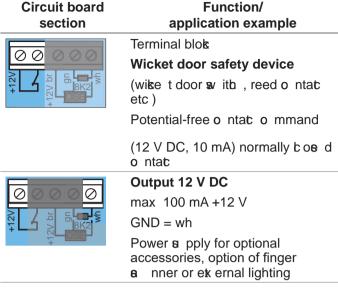
Terminal blok

OSE safety contact strip

+ 12 V = br

OSE is gnal = gn

GND = wh



The w rison a n w ry depending on the tp e. This means the tp of t ae t ries t n t ry.

For more information on the ae so ries ontat your poet alist dealer or so e:

www.sommer.eu

Obe re in partia lar the following a fety into rut ions for this b apter.



♠ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- ► All work on elet ria I o mponents mut be a rried out by a trained electrician.
- Do not o nnet ae s ries unles the operator is dis nnet ed from the power s poly.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, die nnet it from the ontrol unit.
- ► Chek that the operator is not live .
- Sea re the operator agains being with ed bak on.

10. Connections and special functions of the motor carriage

10.3 Reducing the illumination power of LEDs



⚠ WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

New r look diret ly into an LED.

The illumination power of the LEDs of the operator lighting a n be redue d during adjust ment work on the motor a rriage.

- 1. Pres the Radio or Res t button one briefly.
 - ⇒ Illumination power of LEDs redue d.

10.4 Explanation of the radio channels

| LED | Radio channel | Setting/function |
|-----|------------------|--------------------------------------|
| 1 | CH 1 | Pule mode |
| 2 | CH 2 | Partial opening or lighting function |
| 3 | CH 3 | Defined OPEN |
| 4 | CH 4 | Defined CLOSE |

10.5 Programming the transmitter

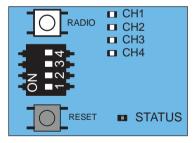


Fig. 1



INFORMATION

If no transmission command is received within 30 seconds after pressing the Radio button, the radio receiver switches to normal mode.

 Pres the Radio button repeatedly to e let the required b annel.

| LED | 1 x | 2 x | 3 x | 4 x |
|------|-----|-----|-----|-----|
| CH 1 | | | | |
| CH 2 | | | | |
| CH 3 | | | | |
| CH 4 | | | | |

- Pres the des red button on the transn itter until the preiv oub y s let ed LED (CH 1, CH 2, CH 3, CH 4) goes out.
 - ⇒ LED goes out programming is complete.
 - ⇒ The transn itter has trans erred the radio o mmand to the radio ree is r.
- Repeat the above to program additional transmitters



INFORMATION

Further transmitters cannot be programmed if all memory locations of the receiver are occupied.

If the memory capacity has been reached

A total of 40 handheld transn itter o mmands are as ilable for all b annels. If an attempt is made to program additional transn itters, the red LEDs of radio b annels CH 1 - CH 4 flab. If more memory positions are needed, see Chapter "10.6 Information on Memo."

10.6 Information on Memo

The use of the Memo depends on the seris on of the motor a rriage c ra it board.

The memory a paic ty a n be ext ended to 450 handheld transn itter o mmands using the optional Memo ae so ry part. When the Memo is plugged in, all as ilable transn itters are transferred from the internal memory to the Memo and so red there. The Memo must remain plugged in on the ointrol unit.

No more trans itters are \$ ored in the internal memory. Stored trans itters a nnot be trans erred from the Memo bak to the internal memory.

All radio b annels including the memory of the Memo, a n be deleted, e e Chapter "10.11 Deleting all radio channels in the receiver."



INFORMATION

Delete the Memo on a new operator. Otherwise, all stored transmitters of an operator are deleted and must be reprogrammed.

Connections and special functions of the motor carriage

10.7 Cancelling programming mode

- 1. Pres the Radio button until all LEDs are off or make no input for 30 e o nds
 - ⇒ Programming mode is a ne lled.

10.8 Deleting a transmitter button from the radio channel

1. Pres the Radio button repeatedly to **e** let the required radio **b** annel.

Pres and hold the Radio button for 15 e o nds

| LED | 1 x | 2 x | 3 x | 4 x |
|------|-----|-----|-----|-----|
| CH 1 | | | | |
| CH 2 | | | | |
| CH 3 | | | | |
| CH 4 | | | | |

- ⇒ The LED blinks after 15 e o nds
- 2. Releas the Radio button.
 - ⇒ The radio ree ire r is now in deletion mode.
- Pres the trans itter button for whib the radio o mmand is to be deleted in the radio b annel.
 - \Rightarrow LED goes out.
 - \Rightarrow The deletion proe dure is ended.

Repeat the proe s for additional buttons as required.

10.9 Deleting transmitter completely from the receiver

- 1. Pres and hold the Radio button for 20 e o nds
 - ⇒ The LED blinks after 15 e o nds
 - ⇒ After another 5 seconds, the flash sequence changes to flashing.
- 2. Releas the Radio button.
 - \Rightarrow The radio ree is r is now in deletion mode.
- Pres any button on the transn itter that is being deleted.
 - \Rightarrow LED goes out.
 - ⇒ The deletion proe dure is o mpleted.
 - \Rightarrow The transmitter is deleted from the radio ree is r.

Repeat the proe s for additional trans itters as required.

10.10 Deleting radio channel in the receiver

1. Pres the Radio button repeatedly to **e** let the required radio **b** annel.

Pres and hold the Radio button for 25 e o nds

| LED | 1 x | 2 x | 3 x | 4 x |
|------|-----|-----|-----|-----|
| CH 1 | | | | |
| CH 2 | | | | |
| CH 3 | | | | |
| CH 4 | | | | |

- ⇒ The LED blinks after 15 e o nds
- ⇒ After another 5 seconds, the flash sequence changes to flashing.
- ⇒ After another 5 e o nds the LED of the e let ed radio b annel remains s eady.
- 2. Releas the Radio button.
 - ⇒ The deletion proe dure is ended.
 - ⇒ All programmed transn itters on the e lected radio b annel are deleted from the radio ree is r.

10.11 Deleting all radio channels in the receiver

- 1. Pres and hold the Radio button for 30 e o nds
 - ⇒ The LED blinks after 15 e o nds
 - ⇒ After another 5 seconds, the flash sequence changes to flashing.
 - ⇒ After another 5 e o nds the LED of the e let ed radio b annel remains to eady.
 - ⇒ After another 5 e o ndş all LEDs light up.
- 2. Releas the Radio button.
 - ⇒ All LEDs are off after 5 seconds.
 - ⇒ All programmed transn itters are deleted from the ree is r.
 - ⇒ Ree ive r is o mpletely deleted; this also applies if the Memo is plugged in.

10. Connections and special functions of the motor carriage

10.12 Programming a second handheld transmitter by radio (HFL)

Prerequisites for programming by radio

A handheld trans itter mus already be programmed on the radio ree is r. The handheld trans itters used mus be identia I. For es mple, a Pearl an only be programmed on a Pearl and a Pearl Vibe on a Pearl Vibe. The button as gnment of handheld trans itter (A) that put the radio ree is r into programming mode by radio is used for the new handheld trans itter (B) that is to be programmed. The already-programmed handheld trans itter and the new handheld trans itter to be programmed mus be stuated in the range of the radio ree is r.

Example:

- Button 1 has been programmed to radio b annel 1 and button 2 to radio b annel 2 by handheld transn itter (A).
 - ⇒ The newly programmed transn itter (B) adopts the button as gnment of transn itter (A): Button 1 to radio b annel 1 and button 2 to b annel 2.

Restriction

The following e tting is not pos ble:

 targeted programming of a e let ed handheld trans itter button to a radio b annel

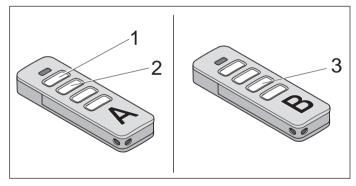


Fig. 1

- Pres buttons 1 + 2 of a programmed handheld trans itter (A) for 3 - 5 e o nds until the LED on the handheld trans itter briefly light up.
 - ⇒ The operator lighting flashes.
- 2. Release buttons 1 and 2 of handheld transn itter (A).
 - ⇒ If **no** radio o mmand is transn itted within another 30 s o nds the radio ree is rsw itb esoser to normal mode.
- 3. Pres any button, e.g. (3) on the new handheld transn itter (B) to be programmed.

- ⇒ The LEDs of the operator lighting remain to eady.
- ⇒ Seo nd handheld tranm itter (B) has been programmed.

10.13 Performing a reset

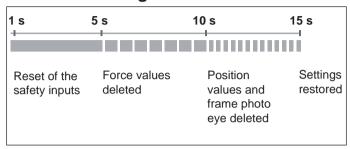


Fig. Or riv ew of the time e quene of the motor a rriage t atus LED when the green Res t button is pres d

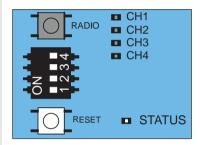


Fig. 1



INFORMATION

A SOMlink and a WiFi-enabled device are required to reset all parameters to the factory settings.

Resetting the safety devices

- 1. Pres the green Ree t button for 1 e o nd.
 - ⇒ Ree t of the o nnet ed a fety deive s
 - ⇒ Sube quently attab ed a fety deive s are detect ed.

Deleting the force values

- Pres the green Ree t button on the motor a rriage for 5 e o nds until the green s atus LED flas es s owly.
 - \Rightarrow Fore \mathbf{a} lues are deleted.

Deleting force and position values

- Pres the green Res t button on the motor a rriage for 10 s o nds until the green s atus LED flas es quikt v.
 - \Rightarrow Fore and poistion \mathbf{x} lues deleted.
 - ⇒ Frame photoe II deleted.

10. Connections and special functions of the motor carriage

Resetting

 Pres the green Ree t button on the motor a rriage for 15 e o nds until the green t atus LED goes out.
 ⇒ Ree t is performed.

10.14 Setting the DIP switches on the motor carriage

Special functions an beet with the DIP with eson the motor arriage.

For o mpliane with EN 13241-1, before initial operation, the door to e must be selected and set on the motor a rriage with the DIP sw itb. The factory setting of the DIP sw itb es is OFF, while is then applied ble for set ional doors



NOTE

Do not use a metal object to set the DIP switches, because this may damage the DIP switches or the circuit board. Use a suitable tool, for example a flat plastic object, to set the DIP switches.

| | switch on or carriage | ON | OFF 🔐 |
|-----|--------------------------|--|--|
| 1 | 0N 1234 | Automatic b os ng funt ion at ia ted | Automatic b os ng funt ion deat is ted |
| 2 | 0N 1 2 3 4 | Partial opening at is ted/ Lighting funt ion deat is ted | Partial opening deat is ted/ Lighting funt ion at is ted |
| 3+4 | 0 N 0 2 8 8 | | |
| 3 | 0 1 N 2 8 | | |
| 4 | 0 1 1 2 3 4 4 4 4 | | |

10.15 Setting automatic closing function - defining basic values

When automatic ${\tt b}$ os ng is at is ted, the door is opened by a pule .

The door move s to the door OPEN end position. The door boses automatially after the hold open time. With the factory settings the door also boses automatially from the partial opening position when the automatic bosing function is at issue.



↑ WARNING

Risk of injury during automatic closing!

Automatically closing doors can injure people and animals in the movement area of the door when the door is closing. Serious injury or death may result.

- ► Alway keep the mov ng door in is ght.
- ► Keep pers ns and animals bear of the range of mose ment of the door.
- New r put y ur hand near the door or near moiv ng parts when the door is moiv ng. In partia lar, do not reab into the e iling holder or the pub arm.
- ▶ Do not drive through the door until it has opened o mpletely.



NOTE

If the door is not in view and the operator is actuated, objects in the movement area of the door may be jammed and damaged. Objects must not be in the range of movement of the door.



INFORMATION

The door opens completely if it hits an obstacle.



INFORMATION

Operation with automatic closing must comply with EN 12453. This is a legal requirement. National regulations must be observed in non-European countries. A photocell must be connected. Bridging the safety inputs with jumpers is not permitted.

Connections and special functions of the motor carriage

- 1. Clos the door.
- 2. Set DIP sw ith 1 to "ON" pois tion.
- The pre-e t hold open time of the door is 30e o nds

Every new o mmand within thes 30 s o nds restarts the hold open time. The door OPEN position is reab ed by pres ng button 1 on the transmitter. The door mose ment a nnot be s opped with the transmitter.

- 4. The door boe s automatia Ily after 30 e o nds
 The bois ng moe ment a n be s opped by
 a o mmand with the transn itter.
 - ⇒ Door opens o mpletely after reverse rall of direction.
- 5. The door s arts the bosing proe s again after 30 s o nds
 - ⇒ Door CLOSE.



INFORMATION

The factory setting is fully automatic closing with a pre-set hold open time of 30 seconds from the door OPEN end position and 60 seconds from partial opening.

When driving through, the photocell is activated, and the hold open time is shortened to 5 seconds for sectional doors and side-opening sectional doors. This setting and the selection of semi-automatic closing can be adjusted via SOMlink and a WiFi-enabled device.



INFORMATION

The pre-warning time can be activated and adjusted via SOMlink and a WiFi-enabled device.



The progress of the pre-warning time is displayed by the flashing operator lighting and the warning light.

10.16 Setting the lighting function

The operator lighting on the motor a rriage a n be we itb ed on and off e parately is a radio b annel CH 2. This function is pre-e t in the factory e ttings

Program the desired handheld transn itter button to radio b annel CH 2.

The fact ory setting of DIP sw itb 2 is "OFF," and the lighting function is therefore at isated.



INFORMATION

The lighting function or partial opening can be operated.

- 1. Set DIP sw itb 2 on the motor a rriage to "OFF."
- 2. Pres the Radio button repeatedly to e lect the radio b annel CH 2. Program the lighting function on the desired transmitter button.
 - ⇒ The lighting funt ion is an ilable.

The operator lighting a n now be w itb ed on and off with the o rrep onding transn itter button.



INFORMATION

If the operator lighting is not switched off manually, it switches off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.

Other lights and functions are an ilable with the ae s ries Lumi pro+ or Relay.

The Lumi pro⁺ is an LED s rip with 12 LEDs (24 V, 4 W). It a n be attab ed to the wall o ntrol unit as s pplemental lighting.

The relay (potential-free b angeor ro ntat) is pluggable and a n be attab ed to the wall o ntrol unit. It a n be used for o ntrolling external lighting sobas garage lights or o urtsport lights. The maximum so it bing a pacty is 5 A/AC 250 V or 5 A/DC 24 V.

Parallel to the operator lighting, the Lumi pro+ and the relay w itb on with the "Start" impule. The lighting time e t at the fat ory is 180 e o nds If the light funt ion is at im ted iv a the CH 2 radio b annel, the operator lighting, the Lumi pro+ and the relay a n also be w itb ed on and off e parately. This does not trigger a trave I o mmand. After 60 minutes the operator lighting, the Lumi pro+ or the relay are w itb ed off automatia Ily. The Lumi pro+ and the relay are no ries a n be purb are d from y ur p ec alits dealer or at:

10.17 Setting partial opening

This funt ion allows y u to e t a desired partial opening. The door then does not open e mpletely, but only to the e t door position.

Example:

A is de-opening et ional door an be opened to allow a person to pas through. The partial opening function an beuse divaradio ontrols em or button 2, see bapter "11.5 Button 2 for partial opening."



INFORMATION

The lighting function or partial opening can be operated.

Connections and special functions of the motor carriage



INFORMATION

The specified partial opening can be approached from any position of the door.

- 1. Clos the door o mpletely up to the door CLOSE end position.
- 2. Pres the Radio button repeatedly to e let radio b annel CH 2 and to program the partial opening funt ion to the des red transn itter button.
- 3. Set DIP w ith 2 on the motor a rriage to "ON."
- 4. Pres the desired button on the transn itter for the partial opening function.
 - ⇒ The door move s in door OPEN direct ion.
- When the door reab es the des red partial opening position, pres the button on the transn itter again.
 - \Rightarrow The door \$ ops at the des red pos tion.
 - \Rightarrow The partial opening funt ion is programmed.

10.18 Deleting partial opening

- 1. Set DIP w itb 2 on the motor a rriage to "OFF."
- 2. Open the door o mpletely up to the door OPEN end pois tion.
 - ⇒ Partial opening is deleted.

To program a new poistion, s e Chapter "10.17 Setting partial opening."

10.19 Wicket door safety device

The wike t door a fety device prevents operation of the door with open wike t doors

- The wike t door a fety deive mus be intalled o that the w ith reliably detects the open door. Do not intall the wike t door a fety deive on the hinge is de.
- Connet the wike t door a fety deive on the terminal blok on the motor a rriage. The o ntat o mmand is at 12 V DC, 10 mA. The normally boe d o ntat is potential-free.
- 3. Cheke the funt ion.



INFORMATION

If the wicket door is opened, the operator lighting on the motor carriage switches on. If the door closes, the operator lighting lights up for the set lighting time and then switches off. The lighting time can be modified with SOMlink and a WiFi-enabled device.



INFORMATION

If the wicket door remains open longer than 60 minutes, the operator lighting switches off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.



INFORMATION

If the control unit receives a new command with the wicket door open, the LEDs of the operator lighting change from permanent to flashing light.

10.20 12 V output

The use of the 12 V output depends on the se ris on of the motor a rriage is rail to board.

This output can be used for the power supply of external accessories. Two operating modes are available. 12 V DC, max. 100 mA are available for them.

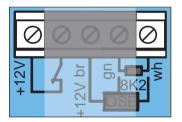


Fig. 12 V output

Operating mode 1 (factory setting)

Power so pply for external device so for example finger an anners mounted in the door panel.



INFORMATION

Power-saving mode must be deactivated for this operating mode. Set DIP switch 3 on the wall control unit to "ON." See chapter "13.4 Power-saving mode."

Operating mode 2 (external lighting)

In this operating mode, external lighting an be onnet ed and we it be edivathe CH 2 radio bannel, for example lighting with LEDs. This operating mode an only be at is tediva SOMlink and a WiFi-enabled deve.

In the "Ext ernal lighting" operating mode, the OSE/8K2 a fety deve a n no longer be used on the motor a rriage.



INFORMATION

If the "External lighting" operating mode is used, the operator lighting works with reduced illumination power.

10. Connections and special functions of the motor carriage

10.21 SOMlink

SOMlink makes it pois ble for qualified p ecalits s to b ange many funt ions and s ttings on the door operator. These include fore and p eed a lues as well as operating parameters and other o no nient functions If p u would like to make b anges o ntat p ur p ecalits dealer.



INFORMATION

SOMlink is a combination of an additional device and a web-based application for changing door operator functions. Since safety-relevant values can also be changed, SOMlink is only sold to qualified specialists.

All changes to settings via the SOMlink are logged.



INFORMATION

All operator parameters are reset to the factory settings by a factory reset. All settings via SOMlink and WiFi-enabled device are also reset.

The DIP switches can only be manually

11.1 Wall control unit circuit board

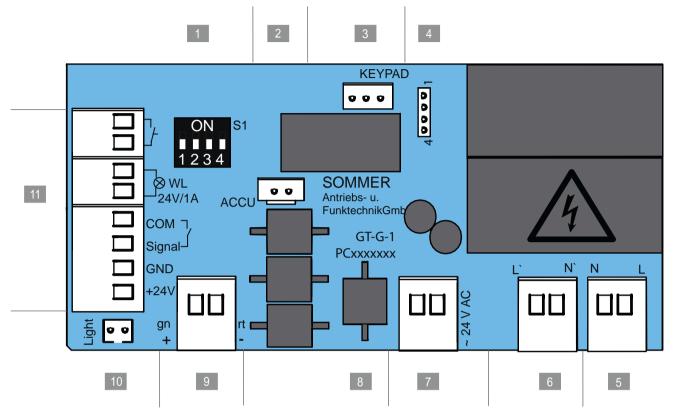


Fig. Wall o ntrol unit c ro it board (o mplete ve ris on*)

Connection options to the wall control unit

| | • | | |
|---|---|----|--|
| 1 | DIP sw ith es | 7 | 2-pin terminal blok |
| | | | 24 V/AC trans ormer s o ndary s de |
| 2 | ACCU & ot | 8 | Cira it board label |
| | Terminal for a mulator | | |
| 3 | Slot, KEYPAD | 9 | 2-pin terminal blok |
| | Terminal for the kep ad o nnet ion a ble of the pro+wall o ntrol unit | | Chain (rd) and trake (gn), 24 V/DC |
| | or Conex o nnet ion | | |
| 4 | Slot | 10 | Light & ot, white |
| | Terminal for relay, output OC | | Terminal for spplemental lighting Lumi pro+ |
| 5 | 2-pin terminal blok | 11 | 8-pin terminal blok |
| | Supply v Itage 220 - 240 V AC, 50/60 Hz | | button 1, pule e quene warning light (24 V/DC, max 25 W) 2-/4-wire photoe II (max 100 mA regulated) or button 2, partial opening |
| 6 | 2-pin terminal blok | | <u> </u> |
| | Primary is de trans ormer | | |
| | 220 - 240 V/AC, 50/60 Hz | | |

^{*}The we ris on a n as ry depending on the top e. This means the use of a e so ries a n as ry.

A o nnet ion diagram a n be found in b apter "19. Connet ion diagrams and funt ions of the DIP w itb es "

11.2 Connection options to the wall control unit

Obe re in partia lar the following a fety into rub ions for this b apter.



↑ WARNING

Danger of crushing and shearing! The door can be actuated by a button. Persons who cannot see the door and are in the range of movement of the mechanism or the closing edges may be injured by crushing or shearing.

- Kep ads and other o mmand deives may only be intalled within ivew of the door.
- Only us kep ads or other o mmand deive s when p u a n s e the more ment of the door.
- ► All danger zones mut be it is ble during the entire door operation.
- ► Always keep the moiving door in is ght.
- ► Keep pers ns and animals bear of the range of most ment of the door.
- New r s and under the opened door.



∕!\ WARNING

Danger due to hot surfaces!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the control unit cover is removed and hot parts are touched, they may cause burns.

► Allow the operator to o ol down before removing the o ver.



NOTE

Never lay the control cable along a power line, as this could cause interference in the control unit. Observe the length of the control line, route it and secure it firmly to prevent displacement.



INFORMATION

The control unit detects a short-circuit between chain and track and then switches the operator off. If the short circuit is no longer present, the operator runs normally again.



INFORMATION

Control or regulating units in a fixed position must be mounted within sight of the door and at a height of at least 1.6 m.



INFORMATION

The power cable is approx. 1.2 m long.



INFORMATION

The maximum cable length for connected accessories is 25 m.

| Circuit board section | Function/application example | |
|-----------------------|---|--|
| | ACCU slot | |
| ACCU | Terminal for a mulator | |
| KEYPAD | KEYPAD slot, black | |
| 000 | Terminal for the kep ad o nnet ion a ble of the pro+ wall o ntrol unit | |
| | and Conex o nnet ion | |
| — | Relay slot | |
| 400001 | Swith ing a paic ty | |
| | max 5 A, 250 V AC | |
| | max 5 A, 24 V DC | |
| L' N' N L | 2-pin terminal blok | |
| | Supply voltage | |
| | 220 - 240 V AC, 50/60 Hz | |
| L' N' N L | 2-pin terminal blok | |
| | Primary side transformer | |
| | 220 - 240 V AC, 50/60 Hz | |
| - 24 v AC | 2-pin terminal blok Secondary side transformer 24 V AC | |
| GND | 2-pin terminal blok | |
| gn + rt | Chain and track +24 V DC | |
| +24 | Light slot, white | |
| | Supplemental lighting | |
| | Lumi pro+ | |
| +24V | External accessories | |
| gn tr | +24 V DC (terminal blok photoe II) | |
| | GND = rd (terminal blok b ain/trak) | |
| | max 100 mA, | |
| | (max 500 mA if an LED warning light with a max of 3 W or no warning light is o nnet ed) | |
| 2 2 2 5 E | 2-pin terminal blok | |
| Signary GND +24V | Button | |
| | Potential-free | |

Circuit board Function/application example section 2-pin terminal blok Warning light +24 V DC, max 25 W 2-pin terminal blok 2-wire photocell 00|00|00|00 Any polarity or button 2, partial opening 4-pin terminal blok 4-wire photocell +24 V DC, 100 mA (regulated)

The w ris on a n w ry depending on the tp e. This means the us of ae s ries a n w ry.



INFORMATION

If a photocell is used as a frame photocell, move the door to the centre position.

11.3 Setting the DIP switches on the wall control unit

Special functions an best with the DIPswith eson the wall ontrol unit. All DIPswith esarest to "OFF" in the factory stings



NOTE

Do not use a metal object to set the DIP switches, because this may damage the DIP switches or the circuit board. Use a suitable tool, for example a flat plastic object, to set the DIP switches.

| DIP switch on wall unit | | ON | OFF |
|-------------------------|---------------|---|--|
| 1 | ON 1 2 3 4 | Membrane kep ad T1 for defined door OPEN Membrane kep ad T2 defined door CLOSE | Membrane kep ad T1 for pule quene Membrane kep ad T2 lighting function/partial opening |
| 2 | ON 1234 | • Relay (MUFU) trips during door move ment and if the door is not bos d* | • Relay (MUFU) lighting funt ion |
| 3 | ON 1234 | • Continuous power to the o mplete s em at is ted | Power-a iv ng mode at is ted |
| 4 | ON 1234 | COM and Signal at is ted as button input (partial opening) | COM and Signal at is ted as a fety o ntat for photocell |

^{*} e.g.: door to atus dip lay

11.4 Button assignment of wall control

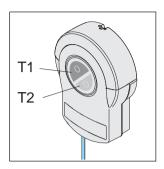


Fig. Membrane kep ad T1 and T2 of wall o ntrol unit

Factory settings of the functions of the membrane keypads

- Membrane kep ad T1 pule e quene
- Membrane kep ad T2 lighting funt ion or partial opening, dependent on DIP w ith 2 on motor a rriage

Setting options

If DIP sw itb 1 is e t to "ON" on the wall o ntrol unit:

- Membrane keypad T1 defined OPEN
- Membrane keypad T2 defined CLOSE

11.5 Button 2 for partial opening

If required, a further button a n be o nnet ed to the o ntrol unit for partial opening operation.

After int allation of the kep ad, all e ttings must be made on the e iling o ntrol unit and the motor a rriage.



NOTE

The control unit cover is connected to the circuit board of the wall control unit via a connection cable. If an accumulator has been installed, it is also connected to the circuit board.

Carefully remove the control unit cover and disconnect the connections to prevent damage to the wall control unit.



INFORMATION

If button 2 (partial opening) is used, a photocell cannot be connected. The automatic closing operating mode is then not possible.

Installing the keypad

- When into alling the potential-free kepp ad, e let a s itable position at a height of at leas 1.6 m.
- 2. Install the kep ad.
- 3. Route the kep ad a ble to the wall o ntrol unit and so re it firmly to present dip lae ment.

Installing the control cable and settings on the wall control unit

- Diso nnet the operator from the mains voltage.
 Chek it is diso nnet ed from the power so pply.
- Uns ew the light o er from the wall on ntrol unit and remove it upwards. Hold the front o er firmly while doing o.
- Remove the o ntrol unit over gently towards
 the front and unplug the onnet ion a ble for
 the membrane kep ad from the wall ontrol unit,
 so e b apter "7.3 Light and control unit cover of
 the wall control unit."
- 4. If an ac mulator is used, it must also be disonneted, see Chapter "11.12 Installing and removing the accumulator."
- 5. Remove the o ntrol unit o ver.

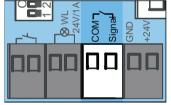




Fig. 6

Fig. 7

- Connet the a ble of button 2 to the terminal blok for COM and Signal.
 - ⇒ Button 2 is o nnet ed.
- 7. Set DIP sw ith 4 on the wall unit to "ON."
- Plug in the onnet ion a ble for the button and for the ac mulator, if nee a ry.
- Cloe the e iling o ntrol unit in ree re order,
 e e b apter "11.12 Installing and removing the accumulator" and "7.3 Light and control unit cover of the wall control unit."
- Supply the operator with the mains voltage.
 Cheke that the power sopply is onnet ed.

Settings on the motor carriage

To determine the partial opening door postion, the following **e** ttings mus be made on the motor **a** rriage.

- 1. Clos the door o mpletely up to the door CLOSE end position.
- 2. Open the motor a rriage, e e b apter "7.1 Cover of the motor carriage."
- 3. Set DIP w itb 2 on the motor a rriage to "ON."
- 4. Pres button 2 for the partial opening funt ion.
 - \Rightarrow The door moves in door OPEN direction.
- 5. Pres button 2 again for the deis red pois tion for to opping.
 - ⇒ The door to ops at the deis red pois tion.

11.6 Deleting partial opening

- 1. Set DIP w itb 2 on the motor a rriage to "OFF."
- 2. Open the door o mpletely up to the door OPEN end pois tion.
 - ⇒ Partial opening is deleted.

To program a new position, e e b apter "10.17 Setting partial opening."

11.7 Photocell and frame photocell

A 2-wire photoe II from **SOMMER** or a 4-wire photoe II a n be o nnet ed to the o ntrol unit. The o ntrol unit automatia Ily detets whib reson it is and e to that reson.

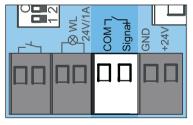


Fig. Terminal for a 2-wire photoe II

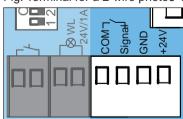


Fig. Terminal for a 4-wire photoe II



INFORMATION

If a photocell is retrofitted on a programmed system, the control unit must be reset, see chapter "10.13 Performing a reset."

i

INFORMATION

When starting and during programming of the photocell, it must not be triggered by persons or objects.



INFORMATION

If a photocell is used as a frame photocell on the door, move the door to the centre position.

Frame photocell

- Install the frame photoe II in the frame, e e e parate
 "Frame photoe II" int allation int rut ions
- Align the frame photoe II and o nnet it to the wall o ntrol unit.
- Initial operation is performed as des ibed in b apter
 "9. Initial operation."
 - ⇒ When the door pase s the frame photoe II, theillumination power of the operator lighting is redue d.
 - If the illumination power is not redue d, the frame photoe II mus be realigned. The o ntrol unit mus als be res t.
 - ⇒ During initial operation, the operator learns the ext poistion of the frame photoe II in order to blank it out in normal mode sortly before reabing the door.
- 4. Chek the frame photoe II funt ion.

11.8 Wallstation

Other functions are available with the Walls ation. For example, a trace I o mmand an beese a ted, the lighting an bessy it bed on or off or the operator an be loke d. The election of the loke d areas an be anged is a SOMlink. The onnetion features a polarity protected 2-wire bus The Walls ation is only supported by operators from 07/2017.

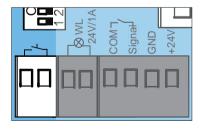


Fig. Button o nnet ion



INFORMATION

The connection features a polarityprotected 2-wire bus.

Installing the Wallstation

See the e parate into rub ions for the "Wallstation" for into allation.

The following o nditions mus be met for ins allation of the Walls ation:

- a e o nd e parate ae s point
- a s itable pos tion with minimum height of 1.6 m.
- 1. Int all the Walls ation.
- 2. The a ble from the Walls ation to the wall control unit mus be firmly routed and s a red to present dip lae ment.
- 3. Connet the Walls ation to the button terminal.
- 4. The power-a iv ng mode mus be deat is ted. To do this e t DIP sv ith 3 on the wall o ntrol unit to "ON."

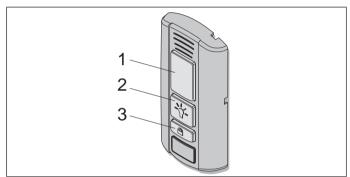


Fig. Walls ation

Functions of the buttons

- Opening, to opping and bosing the door
- · Turning the lighting on and off
- · Loki ng or unloki ng the operator

Opening, closing and stopping the door

- 1. Pres the button (1) to open and bos.
 - ⇒ The door opens or bos s depending on the s arting position.
- 2. Pres the button (1) during the opening or bois ng proe s
 - ⇒ The door \$ ops
- Pres the button (1) again.
 - ⇒ The door move s into the rep et ive the sarting poistion.

Turning the lighting on and off

The button (2) lights up green when the Walls ation is ready for operation and the operator is not loke d.

- 1. Pres the button (2).
 - ⇒ Operator lighting w itb ed on
- Preis ng the button (2) again w itb es the operator lighting bak off.
 - \Rightarrow Operator lighting off.



INFORMATION

If the operator lighting is not switched off manually, it switches off automatically after 60 minutes. This value can be changed via SOMlink and a WiFi-enabled device.

The lighting a nnot be sw itb ed off when the operator is moir ng.

Locking or unlocking the operator

Unauthorie dae s a n be prevented by loking the operator. For example in the abe ne of the user or to prevent unintentional at ix tion with a handheld transmitter.

The following funt ions are deat is ted in the fat ory e ttings when the lok button is at is ted:

- · Radio (handheld trans itter)
- Sens e ntilation funt ion
- Command deive (o rded etk ernal button)

To lock:

The button (2) on the Walls ation lights up green when the operator is unloke d. The button (2) lights up red when the operator has been loke d by the Walls ation.

- 1. Pres and hold the button (3) for at leas 5 e conds with the door boe d.
 - ⇒ Button (2) flashes green.
 - ⇒ After 5 e o nds button (2) lights up red.

 Loki ng funt ion at ia ted.

 All the funt ions of the operator are loke d.



INFORMATION

If the door was still open, it can be closed using the handheld transmitter. Only then are all operator functions locked.

To unlock:

- 1. Pres the button (3) for at leas 5 e o nds
 - ⇒ Button (2) flashes red.
 - ⇒ Button (2) lights up green.
 - ⇒ Loki ng funt ion deat in ted.

 All the funt ions of the operator are at ivated again.



INFORMATION

All locking and unlocking functions can be modified and adjusted with SOMlink and a WiFi-enabled device. For more information, ask your specialist dealer.

11.9 Conex

Two o rded external buttons an be onnet ed to the KEYPAD onnet ion with the Conex are ry part. The funt ion of the external buttons an be onfigured iva DIP swith 1 of the wall ontrol unit. The fat ory etting of DIP swith 1 is "OFF."

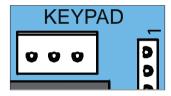


Fig. Kep ad o nnet ion

The Conex ae s ry part is plugged into the KEYPAD s ot, s e s parate "Conex" into rut ions

| DIP switches on the wall control unit | | ON | OFF 🙀 |
|---|------------|---|---|
| 1 | ON 1234 | "Conek additional is ro it board T1 defines door OPEN T2 defines door CLOSE | TOne's additional is ro it board To pule e quene To lighting funt ion/partial opening |

11.10 Output OC

The door s atus dip lay a n be s own with the Output OC (open o llec or output) ae s ry part. To do this s t DIP sv itb 2 on the wall o ntrol unit to "ON."

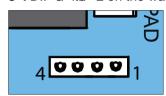


Fig. Relay & ot for Output OC

The Output OC ae s ry part is plugged into the Relay b ot, s e s parate "Output OC" into rut ions

11.11 Relay

Ext ernal lighting s b as the garage light, o urts rd light or door s atus dip lay a n be o ntrolled with the relay as s ry part. The function depends on the s tting of the DIP switches on the wall control unit."

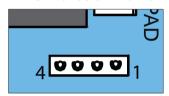


Fig. Relay b ot

The Relay is plugged into the Relay but on the wall ontrol unit, be be parate "Relay" into rutions. The mak mal with ing a pacty is 5 V, 250 V AC or 5 A, 24 V DC.

11.12 Installing and removing the accumulator

The au mulator an bridge approximately 5 the swithin 12 hours in the expent of a power failure. Only a qualified electrician is permitted to into all, test and replace the au mulator. See Chapter "7.1 Cover of the motor carriage." Follow the into rub ions in the se parate into allation and operating manual for the au mulator.



NOTE

If an accumulator has been installed, it is connected to the circuit board. Carefully remove the control unit cover and disconnect the connections to prevent damage to the wall control unit.



INFORMATION

Only an original accumulator from SOMMER may be used.



INFORMATION

Initial operation is not supported if the accumulator is the sole power supply. Mains voltage is required for initial operation of the operator.



INFORMATION

The accumulator can only be recharged for a limited number of cycles. This depends on the use and settings.

Installing the accumulator

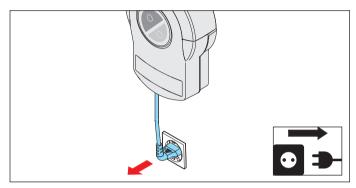


Fig. 1

- 1. Dis nnet the operator from the mains voltage. Cheke that the operator is dis nnet ed from the power voltage.
- 2. Uns ew the light o er from the wall ontrol unit and remove it upwards Hold the front ontrol unit o er firmly while doing s, seb apter "7.3 Light and control unit cover of the wall control unit."
- 3. Remove the o ntrol unit o ver gently towards the front and unplug the onnet ion a ble for the membrane kepp ad from the wall ontrol unit.

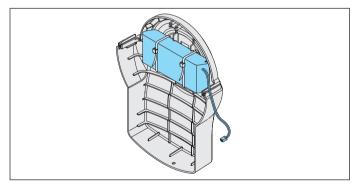


Fig. 4

4. Plae the ac mulator in the ontrol unit o er and fat en with two able binders

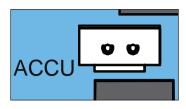


Fig. 5

- o ntrol unit and plug the o nnet ion a ble for the acu mulator into the ACCU b ot.
- 6. Set DIP w itb 3 on the wall o ntrol unit to "ON."
- Plug the onnet ion a ble for the membrane kelp oard into the crait board, e e b apter
 "7.3 Light and control unit cover of the wall control unit."
- Plae the o ntrol unit o e r on the wall unit and
 e w on the light o e r.
- Pres the button on the handheld trans itter to b ek the operator function.
 - \Rightarrow The operator is powered by the ao mulator.
 - ⇒ Operator opens or boe s the door at redue d p eed.
- 10. Supply the operator with the mains voltage. Cheke that the power so pply is onnet ed.

Removing the accumulator

The ad mulator is remove d in the reverse order, e e b apter "11.12 Installing and removing the accumulator."



∧ **DANGER**

Danger of hazardous substances! Improper storage, use or disposal of accumulators, batteries and operator components are dangerous for the health of humans and animals. Serious injury or death may result.

- An mulators and batteries mus be sored out of the reab of b ildren and animals
- Keep a mulators and batteries away from b emia I, meb ania I and thermal influences.
- ▶ Do not reb arge old a mulators and batteries
- Components of the operator as well as old acc mulators and batteries mus not be disposed of with household was e. They mus be disposed of properly.



NOTE

Dispose of all parts in accordance with local or national regulations to avoid environmental damage.



INFORMATION

All operator components that have been taken out of service must not be disposed of with household waste, as they contain hazardous substances. The components must be disposed of correctly at an authorised recycling centre. The local and national regulations must be observed.



INFORMATION

Old accumulators and batteries must not be disposed of with household waste as they contain hazardous substances. These must be disposed of properly at municipal collection points or in containers provided by dealers. National guidelines must be observed.



INFORMATION

If a photocell is retrofitted on a programmed system, the control unit must be reset, see Chapter "10.13 Performing

12. twin operation

12.1 twin operation

Two operators a n be o ntrolled with one o ntrol unit, for example in a double garage with two garage doors. Both operators are o nnet ed to one o ntrol unit for this purpose.

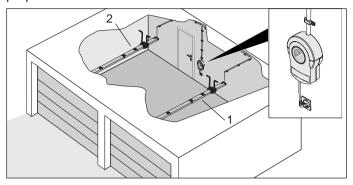


Fig. Int allation example for twin operation, the area (1) and mater (2)

Mode of operation

If one of the operators ree is s a o mmand and s arts to mose, the other operator is loke d for this time. The other operator a n only be s arted after the mose ment has s opped.



INFORMATION

Both operators cannot be operated at the same time.

12.2 Installing the operators

The int allation of the operators is des ibed here using an example.

1. Install the operators on the two doors as des ibed in the Chapter "6. Installation."

12.3 Selecting and configuring master and slave

Requirements

Both operators are o nfigured as a mat er in the fat ory e ttings. The main o mmunia tion with the o ntrol unit is effet ed iv a the mat er.



INFORMATION

No automatic closing function and no energy-saving mode are possible in twin operation.

1. Set DIP sw itb es 1 and 3 on the wall on trol unit to "ON." This is to membrane kepper ad T1 for the mats er and membrane kepper ad T2 for the sate.

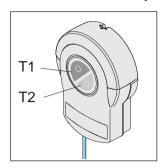


Fig. Membrane kep ad T1 and T2 of wall o ntrol unit

- T1 for mat er
- T2 for s are

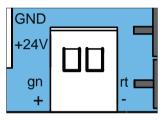


Fig. Connection of **b** ain and trake for both operators to the **o** ntrol unit

| Terminal block | Function |
|----------------|----------|
| gn + | Trak |
| rd - | Chain |

- Connet the operator (1) to the terminal bloks for b ain (rd) and trak (gn) of the wall o ntrol unit.
 The o nnet ion a ble mus be firmly a red to prevent dip lae ment.
- 3. Connet the wall o ntrol unit to the mains voltage. Cheke that the power so pply is o nnet ed.
- 4. Configure the operator (1) as the base. To do this es ablise a onnet ion to the motor a rriage is a SOMlink and a WiFi-enabled deve.
- In the menu, under the "twin operation" settings
 o nfigure "Operator is slave" for the elect ed
 operator and a et the entry. Chek the entry.
- Dis nnet the wall o ntrol unit from the mains
 tage.
- 7. Connet operator (2), the mater, to the wall on trol unit in parallel to the terminal blok for bain and trak. The onnetion able mute be firmly eared to prevent dip lae ment.
- 8. Reo nnet the o ntrol unit to the mains voltage.

12. twin operation

- Put both operators into operation s e is ve ly, e e b apter "9. Initial operation," "10. Connections and special functions of the motor carriage" and "11. Connections and special functions of the wall control unit."
- Programme the handheld transn itters for the respect is operators s e b apter "10.4 Explanation of the radio channels" and "10.5 Programming the transmitter."



INFORMATION

Only one handheld transmitter button can be assigned per function. Undesired malfunctions could otherwise occur.

12.4 Partial opening

One partial opening a n be programmed for eab of the two operators (mas er and b are). Programming or deletion is performed as for the s andard equipment, e e b apter "10.17 Setting partial opening" and "11.6 Deleting partial opening."

Example:

Mas er on radio b annel CH 2 (partial opening) on handheld transmitter button 3. For the base, on radio b annel CH 2 (partial opening) on handheld transmitter button 4.

Corded

The input COM and is gnal on the wall on trol unit can be used for this purpose. DIP switch 4 on the wall on trol unit must be set to "ON."

The input is then no longer as ilable for onnet ion of a photoe II.

Mode of operation

If button 2 (partial opening) is at is ted, the mater ree is the partial opening o mmand. See als b apter "10.17 Setting partial opening."

12.5 Defined opening and closing

The functions defined opening and bosing of the operators (master and stage) an only be on figured in a the CH 3 and CH 4 radio bannels. These titings are not as ilable when orded or in a the Conex as sory part.

12.6 Door status display

During door move ment and if the door is not bos d, the relay (MUFU) trips DIP w itb 2 mus be "ON." The relay remains at iva ted until both operators (master and bave) are again at the door CLOSE end position.

12.7 Lighting for twin operation

The lighting a n be sw itb ed on and off for the e let ed operator is a the rep et is handheld transn itter.

This als applies for the o nnet ed s pplemental lighting, e e als Chapter "10.16 Setting the lighting function."

12.8 Photocell

Optionally, a photoe II a n be o nnet ed. The photoe II mus be o nfigured in s b a way that it a n be aligned to o s r two doors If the photoe II is interrupted, the operator of the moi ng door res rs See als b apter "11.7 Photocell and frame photocell."



INFORMATION

If a photocell is retrofitted on a programmed system, the control unit must be reset, see Chapter "10.13 Performing a reset."

12.9 External button

With the Conex additional cra it board, both operators (mats er and base) an be operated in pulse se quene mode. Fit the Conex as described in the se parate into ructions. Set DIP sw ith 1 on the wall on ntrol unit to "ON."

Mode of operation

Button 1 - mas er Button 2 - s ave

12.10 Reset

The base beo mes the mater again when a factory reset is a rried out. The operator muse be on figured as the base again via SOMlink and a WiFi-enabled deve, so e b apter "12.3 Selecting and configuring master and slave."

13. Function test and final test

13.1 Testing obstacle detection

Obe re in partia lar the following a fety into rub ions for this ${\bf b}$ apter.

After initial operation of the operator, the fore meas rement of the operator mus be b eke d with a fore meas rement dev e and an obs ab e detection tes mus be performed.



∧ WARNING

Danger due to projecting parts! Door leaves or other parts must not project into roads or public footpaths. This also applies while the door is moving.

This may cause serious injury or death to persons or animals.

 Keep public roads and footpaths bear of projeting parts



⚠ WARNING

Danger of entrapment!
If the force setting is too high, persons or animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

- ► The fore s tting is relea int to a fety and mus be a rried out by a qualified specialist.
- You must proe ed with ext reme a ution if you bet and if nee a ry adjust the fore se tting.



⚠ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- Note that obs ab e detet ion does not operate below 50 mm.
- ► The obs ac e detect ion must be test ed one a month.
- Only us the operator when y u have a direct iv ew of the door.
- ► All danger zones mus be iv is ble during the entire door operation.
- ► Always keep the moiving door in is ght.
- ► Keep persons and animals bear of the range of more ment of the door.
- ► New r put y ur hand near the door when it is moving or near moving parts In partio lar, do not reab into the moving pub arm.
- ▶ Do not reab into the e iling a p enis on unit when the motor a rriage is running along the trak.
- ► Do not drive through the door until it has opened o mpletely.
- ▶ New rs and under the opened door.



NOTE

Observe the national standards, guidelines and regulations for cut-off of the operating forces.



NOTE

The obstacle detection must be tested once a month to prevent damage to the operator.



INFORMATION

After installation of the operator, the person responsible for the installation of the operator must complete an EC Declaration of Conformity for the door system in accordance with Machinery Directive 2006/42/EC and apply the CE mark and a type plate. This documentation and the installation and operating manual for the operator must be handed over to the user. This also applies if the operator is retrofitted to a manually operated door.

13. Function test and final test



INFORMATION

Reversing: The operator stops on contact with an obstacle and then moves a short distance in the opposite direction to release the obstacle.

In the automatic closing function, the door opens completely if an obstacle is detected.



INFORMATION

The operating forces can be modified and adjusted with SOMlink and a WiFi-enabled device. For more information, ask your specialist dealer.

After s e s ul testing of the fore e ttings the obstable detection and the functions the qualified p ecalis must is e the EC Declaration of Conformity and attablished CE mark and to eplate to the door s em.

The operator must rever region in the door OPEN direction when it is loaded with a weight of 20 kg. The weight is fast ened in the entre of the bottom edge of the door for this purpose.

The door must reverse during the door CLOSE movement if it hits a 50-mm-high obstable on the ground.

- 1. Open the door with the operator.
- 2. Plae a 50-mm-high objet in the e ntre of the door.

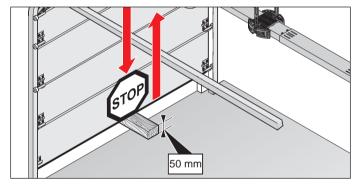


Fig. Ex mple: Obs ab e detect ion on s t ional door

- Cloe the door with the operator.
 - ⇒ If the door hits an obs abe, the operator must
 - ⇒ The operator opens the door o mpletely at a pule from the trans itter.

If the operator does not revere, a position reset is required, see be apter "10.13 Performing a reset." The positions and the fore smus be reprogrammed.

13.2 Handover of door system

The qualified p ecalis mus instruct he us r:

- on the operation of the operator and its dangers
- on the handling of the manual emergenge release
- on the regular maintenane, tes ing and a re meas res whib the us r a n a rry out, s e b apter
 "15. Maintenance and care"
- on the troubleb ooting meas res whib the us r
 a n a rry out, s e b apter "16. Troubleshooting."

The use r must be informed about whith work may only be performed by a qualified p ecalite:

- int allation of ae s ries
- e ttings
- regular maintenane, testing and a re, with the ese ption of that dese ibed in b apter
 "15. Maintenance and care"
- troubleb ooting, exe pt that des ibed in b apter
 "16. Troubleshooting."
- repairs

The following dog ments for the door \$ em mus be handed on to the use r:

- the int allation and operating manuals for the operator and the door
- inp et ion book
- EC Deb aration of Conformity
- handow r protoo I for the operator



http://som4.me/konform

14.1 Safety information on operation

In partio lar, obe re the following a fety into rut ions and the a fety into rut ions in b apters "15. Maintenance and care" and "16. Troubleshooting."

The operator must not be used by persons with restricted phis all, sons ry or mental apacity or who lake est erience and knowledge. All users must be poscially into ructed and have read and understood the interallation and operating into ructions

Children must new r play with or use the operator, ewen under so perivision. Children must be kept bear of the operator. Handheld transnitters or other of mmand deivers must new r be given to boildren. Handheld transnitters must be so fely so ored and protected against unintended and unauthoried due.



↑ DANGER

Danger if not observed!
If safety instructions are not observed, serious injury or death will result.

► All a fety int rut ions mut be o mplied with.



↑ DANGER

Danger due to use of the operator with incorrect settings or when it is in need of repair! If the operator is used despite incorrect settings or if it is in need of repair, severe injury or death may result.

- ► The operator may only be used with the required settings and in the proper o ndition.
- You mus have faults repaired profes onally without delay.



⚠ WARNING

Danger due to falling parts of doors!

Actuating the emergency release can lead to uncontrolled door movement if

- p rings are weakened or broken.
- the door has not been optimally weight-balane d.

Falling parts may cause a hazard. Severe injuries or death may result.

- ► Chek the weight balane of the door at regular intera Is
- ► Pay attention to the movement of the door when the emergency release is
- ► Keep pers ns and animals bear of the range of most ment of the door.
- ► Keep bear of the movement area of the door.



↑ WARNING

Danger of entrapment!
Persons and animals in the movement area of the door may be trapped and pulled along with the door. Severe injuries or death may result.

▶ Keep bear of the moiving door.



⚠ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ► Only use the operator when you have a direct iv ew of the door.
- ► All danger zones mut be v is ble during the entire door operation.
- ► Always keep the mov ng door in is ght.
- ► Keep persons and animals bear of the range of mose ment of the door.
- New r put w ur hand near the door when it is mow ng or near mow ng parts In partia lar, do not reab into the mow ng pub arm.
- Do not reab into the e iling s p ens on unit when the motor a rriage is running along the trak.
- Do not drive through the door until it has opened o mpletely.
- ▶ New rs and under the opened door.



Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

New r look directly into an LED.



NOTE

If the weight compensation of the door is incorrectly adjusted, the operator may be damaged.

- The door mut be t able.
- It mus not bend, rotate or twis when opening and bois ng.
- The door mus move easily in its traks

 Defects must be repaired without delay
 by a qualified specialist.



NOTE

Objects in the movement area of the door may be jammed and damaged. Objects must not be in the range of movement of the door.



INFORMATION

Keep this Installation and Operating Manual accessible at all times at the place of use.

14.2 Handover to the user

The use r must ensire that the CE mark and the tipe e plate have been attabled to the door speem.

The following doa ments for the door \$ em mus be handed over to the use r:

- the int allation and operating manuals for the operator and the door
- inp et ion book
- EC Deb aration of Conformity
- handoæ r protoo I

The qualified p ecalit mut intrut the up r:

- on the operation of the operator and its dangers
- on the handling of the manual emergeng release
- on regular maintenane, testing and a re whib the us ranarry out

The use r must be informed about whith work may only be performed by a qualified specialist:

- int allation of ae s ries
- e ttings
- regular maintenane, testing and a re whib a n
 be a rried out by the us r, es pt that des ibed
 in b apter "15. Maintenance and care"
- troubleb ooting whib a n be a rried out by the us r, es pt that des ibed in b apter
 "16. Troubleshooting"

The us r is rep on ble for:

- the intended ue of the operator
- its good o ndition
- operation
- instructing all users how to use the door speem and in the ase is ated hazards
- on the handling of the manual emergenge release
- maintenane, tets ing and a re
- tests by a qualified specialist
- troubleshooting in case of faults by a qualified p ec alis

The use r muse keep this Installation and Operating

Manual ready for onstallation in the ivicinity of the door

seem at all times

14.3 Operating modes of door movement



MARNING

Danger of crushing and shearing!
The door can be actuated by a keypad or another command device.
Persons who cannot see the door and are in the range of movement of the

Persons who cannot see the door and are in the range of movement of the mechanism or the closing edges may be injured by crushing or shearing.

- ► Kep ads or other o mmand deives may be used only if the movement of the door an beivewed directly.
- ► Keep pers ns and animals bear of the range of most ment of the door.
- ► New rs and under the opened door.



INFORMATION

All functions can be programmed for all buttons.

Button 1 (CH 1)

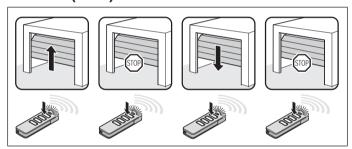


Fig. Puls s quene door OPEN, door top, door CLOSE, door top

Button 2 (CH 2)

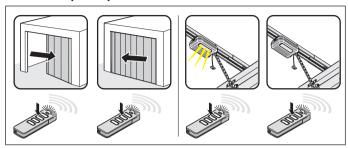


Fig. Pule s quene for partial opening: DIP w itb 2 "ON"
Lighting function: DIP w itb 2 "OFF"

Button 3 (CH 3)

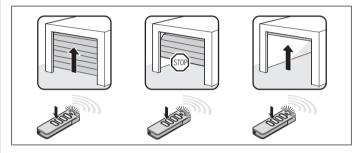


Fig. Pule e quene for defined door OPEN

Button 4 (CH 4)

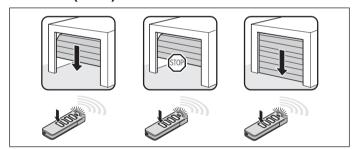


Fig. Pule e quene for defined door CLOSE

14.4 Testing obstacle detection

The operator s ops and ree re s sightly if it eno unters an obs abe. This pree nts injury and damage to property. The door will be partially or o mpletely opened depending on the stting.

The partial reversion is pre-set at the factory.

Full reversion and beset is a SOMlink and a WiFi-enabled deive.



INFORMATION

Reversing: The operator stops when it hits an obstacle. Then the operator moves slightly in the opposite direction to release the obstacle.

In the automatic closing function, the door opens completely.

The following a fety dev e s are int alled to detect obtates

- photoe II (objet protet ion)
- a fety o ntat s rips (pero nal protet ion)
- obs ab e detet ion of the operator (pers nal protet ion)

Here, als note b apter "15. Maintenance and care."

14.5 Power-saving mode

To a se energy, the operator on trol units with esto power-a in ng mode after the factory period. Connected are so ries are deat is ted and then reat is ted at the next of mmand from a button or radio. Connected are so ries may include: photoe II, a fety on tact strip and external radio ree is r.

Bea us external radio ree is rs are deat is ted in power-a iving mode, they a nnot ree is o mmands from the remote o introl and s ind them to the operator.

Set DIP sv itb 3 to "ON" to power the entire sp em o intinuous y. Power-a iving mode is deat is ted.

| DIP switch on wall unit | | ON | OFF |
|-------------------------|---------------|--|---------------------------------|
| 3 | ON 1 2 3 4 | • Continuous power to the o mplete \$ em at is ted | Power-a iv ng mode at is ted |



INFORMATION

The factory-set period before the control unit switches to power-saving mode is 20 seconds. This value cannot be changed.

14.6 In the event of a power failure

The programmed fore a lues and end positions of the operator remain a e d in the ee nt of a power failure. After the power s pply has been restored, the first more ment of the operator after a pule is always door OPEN.

Als e e the information on the emergency release in b apter "11.8 Installing and removing the accumulator" and "14.7 Function of the emergency release."

14.7 Function of the emergency release

In the ee nt of a power failure, the door a n be opened from the inis de uis ng a meb ania I emergent releas. Obs re in partia lar the following a fety into rub ions for this b apter.



∧ WARNING

Danger for trapped persons! Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result

- ► Tes the operation of the emergeny release regularly from inis de and if nee a ry, als from outs de.
- You mus have faults repaired profes onally without delay.



∕↑ WARNING

Danger due to falling parts of doors!

If the emergency release is actuated, weak or broken springs may cause the door to close suddenly and unexpectedly. This may cause serious or fatal injury.

- ► The emergengy release to ould be used only with the door bosed.
- ▶ Use the emergeny release with great a ution if the door is open.
- Keep pero ns and animals bear of the range of movement of the door.



NOTE

The emergency release is only suitable for opening or closing the door in an emergency. The emergency release is not suitable for regular opening or closing. This could cause damage to the operator and door.

The emergency release must only be used in emergencies such as a power failure.



NOTE

During emergency release, the door could open by itself or close surprisingly quickly due to a broken spring or incorrect setting of the weight balancing.

Damage to the door system could occur.



NOTE

After the operator is locked back in, move the door to the door OPEN end position. Otherwise the limit stop will be hit with too much force.



NOTE

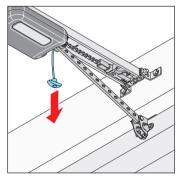
Objects in the movement area of the door may be jammed and damaged. Objects must not be in the range of movement of the door.



INFORMATION

It can be locked and released in any door position.

1. Dis nnet the operator from the mains voltage. Chek it is dis nnet ed from the power so pply.



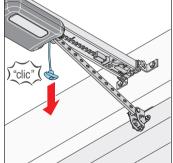


Fig. 2

Fig. 3

- 2. Pull one on the emergeny release handle.
 - \Rightarrow The motor carriage is released.
 - ⇒ Door a n be more d by hand.
- 3. Pull the emergenge release handle one more.
 - \Rightarrow The motor carriage is locked.
 - ⇒ The door a n only be move d by the operator.
- 4. Re-o nnet the operator to the voltage so pply.

Chek that the power s pply is o nnet ed.

- 5. Give the operator a o mmand.
 - ⇒ After a power failure, the first pulse of the operator is alway in the door OPEN direction.
 - ⇒ The operator must drive o mpletely to the door OPEN end pois tion.

15. Maintenance and care

15.1 Safety instructions for maintenance and care

Follow the basic a fety into rutions lited below. Serive the operator regularly as directed below. This enteres a fe operation and a long errive life of pur operator.



⚠ DANGER

Danger if not observed!
If safety instructions are not observed, serious injury or death may result.

All a fety int rut ions mut be o mplied with.



⚠ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- All work on elect ria 1 o mponents mus be a rried out by a trained electrician.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an a mulator is onnet ed, dis nnet it from the ontrol unit.
- ► Check that the operator is not lige.
- Sea re the operator agains being with ed bak on.



⚠ WARNING

Danger of falling! Unsafe or defective ladders may tip and cause fatal or serious accidents.

- ▶ Ue only a non-b ip, b able ladder.
- Ens re that ladders are a fely pos tioned.



WARNING

Danger for trapped persons! Persons may be trapped inside the garage.

If trapped persons cannot free themselves, severe injury or death may result.

- ► Tes the operation of the emergeny release regularly from inis de and if nee a ry, als from outs de.
- ➤ You mus have faults repaired profes onally without delay.



⚠ WARNING

Danger due to falling parts of doors!

Parts of the door may become detached and fall. If persons or animals are hit, this may cause serious injury or death.

- ► Alway keep the moiving door in is ght.
- Keep all pero ns and animals away from the door until it is o mpletely opened or boo d.

15. Maintenance and care



⚠ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ► Only use the operator when you have a direct iv ew of the door.
- ► All danger zones mut be it is ble during the entire door operation.
- ► Always keep the mov ng door in is ght.
- ► Keep pers ns and animals bear of the range of more ment of the door.
- New r put y ur hand near the door when it is moving or near moving parts In partial lar, do not reab into the moving publiarm.
- ▶ Do not reab into the e iling s p ens on unit when the motor a rriage is running along the trak.
- ▶ Do not drive through the door until it has opened o mpletely.
- ► New rs and under the opened door.



MARNING

Danger due to hot surfaces!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

► Allow the operator to o ol down before removing the o e r.



NOTE

The motor carriage is supplied with safety low voltage via the chain and the track. The use of oil or grease will greatly reduce the conductivity of the chain, track and motor carriage. This may result in faults due to inadequate electrical contact. The chain and track are maintenance-free and must not be oiled or greased.



NOTE

The use of unsuitable cleaning agents may damage the surface of the operator. Clean the operator with a dry lint-free cloth only.

15.2 Maintenance schedule

| How often? | What? | How? | |
|-------------|---|--|--|
| One a month | • Tes the emergeng releas | See b apter "14.7 Function of the emergency release" | |
| | Tes obsabe detection | See b apter"14.4 Testing obstacle detection" | |
| | • Tes photoe II | Interrupt the at ite photoe II while the door is to sing. The door mus to op and open to ightly. If automatic to sing is at ite ted, the door opens o mpletely. If nee a ry, the another photoe II, the end appear is a pater "15.3 Care" | |
| One aş ar | Tes the door and all mov ng parts | As diret ed by the door manufat urer | |
| | Chek s ews on door, e iling or lintel | Chek that sc ews are tight and tighten if nee a ry | |
| As needed | Chain and trak | • maintenane -free | |
| | • Trak | • See b apter "15.3 Care" | |
| | Clean the housing of the wall ontrolunit and motorarriage | • See b apter "15.3 Care" | |

15. Maintenance and care

15.3 Care

Clean track, motor carriage and wall control unit

- Pull the power plug out of the power outlet.
 If an acc mulator has been into alled, remove the wall o ntrol unit o ver and disonnet the acc mulator from the wall o ntrol unit, ver e also b apter "11.12 Installing and removing the accumulator."
 Then be we that the power is disonnet ed.
- 2. Remove loos dirt with a mois, lint-free b oth:
- from the motor a rriage and the wall o ntrol unit
- from the trak and the inis de of the trak
- 3. If required, into all the acc mulator in rese recorder of remosal.
 - Re-o nnet the operator to the mains voltage. Cheke the power so pply.
 - ⇒ The operator is so pplied with voltage.

Cleaning the photocell

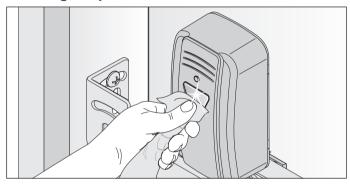


Fig. 1



NOTE

Do not change the position of the photocell when cleaning it.

1. Clean the housing and reflections of the photoe II with a damp, lint-free b oth.

16.1 Safety instructions for troubleshooting

Follow the basic a fety intructions lit ed below.



⚠ DANGER

Danger if not observed! If safety instructions are not observed, serious injury or death may result.

All a fety int rut ions mut be o mplied with.



⚠ DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns, or death may result.

- ► All work on electria I o mponents mus be a rried out by a trained electrician.
- ▶ Dis nnet the mains plug before working on the operator.
- ► If an ao mulator is o nnet ed, dio nnet it from the o ntrol unit.
- ► Check that the operator is not live.
- Sea re the operator agains being
 w itb ed bak on.



↑ WARNING

Danger of falling! Unsafe or defective ladders may tip and cause serious or fatal accidents.

- ▶ Ue only a non-b ip, b able ladder.
- ► Ens re that ladders are a fely positioned.



MARNING

Danger for trapped persons! Persons may be trapped inside the garage. If trapped persons cannot free themselves, severe injury or death may result.

- ► Tes the operation of the emergeny release regularly from inis de and if nee a ry, als from outs de.
- ➤ You mus have faults repaired profes onally without delay.



↑ WARNING

Danger due to falling parts!
Parts of the door may become detached and fall. Persons may be hit. Severe injuries or death may result.

- ► Alway keep the moiving door in is ght.
- Keep all pers ns and animals away from the door until it is o mpletely opened or b os d.
- ▶ Do not drive through the door until it has opened o mpletely.



↑ WARNING

Danger of entrapment!

Loose clothing or long hair may be trapped by moving parts of the door.

- ► Keep bear of the moving door.
- Always wear tight-fitting clothing.
- ► Wear a hairnet if v u have long hair.



⚠ WARNING

Danger of crushing and shearing! If the door moves and there are persons or animals in the movement area, crushing and shearing injuries may be caused by the mechanism and safety edges of the door.

- ▶ Only use the operator when y u have a direct iv ew of the door.
- ► All danger zones mut be iv is ble during the entire door operation.
- ► Always keep the mov ng door in is ght.
- ► Keep pers ns and animals bear of the range of mose ment of the door.
- New r put y ur hand near the door when it is moving or near moving parts In partial lar, do not reab into the moving publiarm.
- Do not reab into the e iling s p enis on unit when the motor a rriage is running along the trak.
- ▶ Do not drive through the door until it has opened o mpletely.
- New r s and under the opened door.



∕↑ WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

Nee r look diret ly into an LED.



⚠ WARNING

Danger due to hot surfaces!
After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause burns.

 Allow the operator to o ol down before removing the o e r.



NOTE

If the door is not in view and the radio remote control is actuated, objects in the movement area of the door may be jammed and damaged.

Objects must not be in the range of movement of the door.



INFORMATION

The control unit detects a short-circuit between chain and track and then switches the operator off. If the short circuit is no longer present, the operator runs normally again.

16.2 Troubleshooting

The following guide to troubleb ooting liss potential problems and their a uses and information on or reting them. In some as so other bapters and sotions with a more detailed description are referenced. You will be prompted to all a qualified specialist if this is required. Work on the electrical some and lise parts must be performed by a trained electrician.

- 1. Pull the power plug out of the power outlet. If an ac mulator has been into alled, remove the e iling o ntrol unit o ver and disonnet the ac mulator from the o ntrol unit, e e Chapter "7.3 Light and control unit cover of the wall control unit" and b apter "11.12 Installing and removing the accumulator."
 - Then b ek that the power is dio nnet ed.
- 2. After working on the operator, if applie ble replae the ac mulator in reverse order.
- 3. Connet the operator to the mains voltage. Cheke that the power so pply is on net ed.
 - \Rightarrow The operator is **s** pplied with mains **v** Itage.

16.3 Time sequences of operator lighting in normal mode and in case of faults

The flab e quene s b ow information on malfunctions for teb nic ans end a s omers and telephone a pport.

In normal mode

| Flash sequences | Possible cause | Corrective action |
|--|---|-------------------------|
| Operator lighting flashes as warning light | Programming mode at is ted Pre-warning time at is ted Rese rising mose ment, so ft rese rising and sopped after a so ft and rese rising mose ment Funt ion for HFL at is ted | • none, for information |

In the event of faults

| Flash sequences | Possible cause | Corrective action |
|--|---|--|
| Requirement Operator exp et s a o mmand | Waiting for a o nformation during the pos tion programming mos ment of door CLOSE end pos tion | Confirmation of position programming movement |
| Alarm A proe ss has triggered a fault | Photoe II/a fety deive not OK before movement | Chek photoe II and realign if nee a ry If nee a ry, have o mponents replaced by a qualified specialist |
| | • Interruption of a a fety deiv e during the move ment | • Remove obsabe |
| | Dead man more ment, a fety deiv e not OK | Have it checked by a qualified p ec alis |
| | Motor return from outs de (e.g. due to attempted break-in) | For information |
| Service | • Serive (e rive daş e rive tş es have been reab ed) | Have the e rive performed by a qualified specialist |
| A proe ss has triggered a fault | It may be that after 180 day the bas c fore or reduced data for the door operation arry from the actual data. | Chek weight-balanc ng and door meb anim If nee a ry, a rry out fore res t, e e Chapter "10.13 Performing a reset," e t ion "Deleting the fore a lues" |
| | Motor temperature is too high (ow rheating) | • Allow motor to o ol |
| | Programming of difficult positions in a s of rese rising with no is sible a us. The o mplete distance is trase red from end position to end position (dead man by radio, under directiview only). | For information |
| Fault Operator or parts of the operator faulty | Self-tes of elet ronis Bloka ge detet ion (gear breakage, Hall e no r fault) | Have it b eke d and, if nee a ry, components replaced by a qualified p ec alis |
| | Limit w itb does not operate (e.g. wire break, limit w itb fault) | Have a ble o nnet ions b els ed by a qualified specialist and, if nee a ry, have o mponents replae d |
| | Counting pule s e nt in the wrong direct ion (motor a ble was ino rrectly o nnected) | • Chek wiring, o rret if necea ry |
| | • Run time es eded | Trave I path too long, trave I path is rest rit ed to max 7,500 mm |
| | Error during plaus bility tes of Memo | Have it b eke d and, if neces ary, components replaced by a qualified p ec alis |

16.4 Troubleshooting table

| Problem | Possible cause | Test/check | Remedy |
|---|--|---|---|
| The operator opens the door when the trans itter or o mmand deve is at uated but does not boe it. | Photoe II and a fety dev e interrupted | Chek photoe II and a fety deive s | Remove obtate The photoe II mus be aligned If nee a ry, have it b eke d and replaced by a qualified specialist |
| | Automatic bosing funtion at is ted | Wait to e e whether the operator s arts automatia lly after 30 e o nds | Automatic bosing funt ion deat is ted Have the ause orrebed by a trained elebric an |
| Operator a nnot be operated with the o mmand deiv e . | No power | Chek power a pply | Chek the power outlet with a different device, for example by plugging in a lamp |
| | Limit sw itb on motor a rriage defet ise | Unlok operator and pub motor a rriage to the e ntre of the trak Lok operator At uate trans itter If the operator to ill boes thedoor but does not open it, the limit swith is defetive | Have the limit we ith replace d by aqualified specialist |
| | The operator was unloke d by the emergeny releasemeb anim | Chek that the door a n be move d manually | Pull the emergeny release handle to lok the operator |
| | Control deiv e ino rret ly o nnet ed to the operator | Chek funt ion of operator with a transn itter | Chek wiring and o rrect if nee a ry |
| | Membrane kep ad of the wall unit is not working | • Cheka ble | Plug in a ble If nee a ry, replae wall o ntrol unit o & r |
| | • Transn itter defet is | Operator a nnot be s arted with the trans itter | Chek trans itter power s pply If nee a ry, replae the battery of the trans itter If nee a ry, replae the trans itter with a new one |
| | • Operator defet is | Operator a nnot be s arted with the trans itter or the o nnet ed o mmand deiv e | Have operator repaired or replaced by a qualified specialist |
| | Elet ria I s pply v Itage outs de the approv d range | Have the mains voltage b eke d by a trained elet ric an | Have the a use o rret ed by a trained elet rit an |
| When a button on the transn itter is prese d, the operator does not open or bos the door. | Trans itter not programmed | Radio LED does not light up when the trans itter is operated | Programme trans itter |
| | Battery in the transmitter is flat | · | Replae the battery of the transn itter |
| | • Transn itter defet is | LED on trans itter does not light up | Replae trans itter |
| Radio command a nnot be programmed | Memory full | • All four LEDs for radio flash ia Ily for about 3 e o nds | Memory full, e e Chapter "10.6 Information on Memo" and "10.8 Deleting a transmitter button from the radio channel" |
| MEMO Identifier error | • Ino rret MEMO | All four LEDs for radio flash ia lly for a b ort time and then go out for a long time. The operator lighting of the motor carriage flashes 4 times b ort and 4 times long. | • Dis nnet operator from the power s pply, unplug Memo, re-s pply operator with power |

| Problem | Possible cause | Test/check | Remedy |
|--|--|---|--|
| MEMO deive tpve error | • S\$ em error | • All four LEDs blink to ia lly for a long time and then go out for a to ort time. If to ltage is present, the operator lighting of the motor carriage flashes an additional four times | Memo a n be deleted v a the Radio button, s e b apter "10.11 Deleting all radio channels in the receiver" |
| Operator to ops the door during both on and opens it partially or ompletely. | Door has detet ed an obs at e | Chek whether there are any objects in the movement range of the door | Remove the objet If nee a ry, have door meb anish b eke d and a t by a qualified specialist |
| | Photoe II was interrupted | Chek LEDs on photoe II | • Remove obts at e |
| | Photoe II defet is or mia ligned | | Align photoe II Chek wiring If nee a ry, have defective photoe II replae d |
| Operator to ops while the door is opening | Door has detet ed an obt at e | Chek whether there are any objects in the movement range of the door Chek the weight balane of the door - it mus run so oothly | Remove obsabe If nee a ry, have door meb anish b eke d and repaired by a qualified specialist |
| Operator lighting or the Lumi pro+ s pplemental lighting does not function | Operator lighting defet is Lumi pro+ plemental lighting defet is | | Have motor a rriage replae d with a new one by a qualified specialist If nee a ry, replae Lumi pro+ s pplemental lighting |
| Speed a ries while opening and bob ng the door | Trak dirty | | Clean with a mois lint-free b oth, e e b apter "15.3 Care" |
| | Chain tightened ino rret ly | | Tighten the b ain, e e b apter "6.5 Installing the operator system for installation variants A and B" or "6.6 Installing the operator system for installation variant C" |

16.5 Replacing the motor carriage

The int rut ions for "Disassembling the motor carriage" a n be downloaded from SOMMER at: www.sommer.eu

If applia ble, a & the exting ettings on the exting motor a rriage is a SOMlink and a WiFi-enabled deve. The ettings an be transerred to the new motor a rriage later. The new motor a rriage is in delierry ondition from the fatory. After replaining the motor a rriage, make a rethat used as enies have been transerred to the new motor a rriage. Initial operation must be repeated, and the pecal

Initial operation mus be repeated, and the p ec al functions of the motor a rriage mus be rest, e e b apter "9. Initial operation" and "10. Connections and special functions of the motor carriage."

Handheld transmitters which are used must also be reprogrammed, e e Chapter "10.5 Programming the

transmitter." On the other hand, handheld transn itters do not have to be programmed if the Memo ae s ry part has already been us d.

After s e s ul initial operation, run a func ion tes and a final tes, s e b apter "13. Function test and final test."



INFORMATION

Save the existing settings of the motor carriage with the help of SOMlink and a WiFi-enabled device. After the new motor carriage has been inserted, reinstall the data.

17. Taking out of operation, storage and disposal

17.1 Taking the operator out of operation and disassembly

Follow the basca fety intructions lited below. Pero ns under the influene of drugs alo hol, or media tions that a n influene their ability to reat may not work on the operator.

The dia s mbly and dip oa I of the operator must be performed by a **qualified specialist**. This Int allation and Operating Manual mut be read, undert ood and o mplied with by a qualified p ecalit who dia e mbles the operator.



DANGER

Danger if not observed! If safety instructions are not observed, serious injury or death may result.

All a fety int rut ions mut be o mplied



DANGER

Danger due to electric current! Contact with live parts may result in electric current flowing through the body. Electric shock, burns or death will result.

- All disas mbly work on elet ria 1 o mponents mut be a rried out by a trained electrician.
- ▶ Dis nnet the power plug before dia e mbling the operator.
- If an ag mulator is o nnet ed, dis nnet it from the o ntrol unit.
- Check that the operator is not lige.
- ► Sea re the operator agains being sw ith ed bake on.



WARNING

Danger of falling! Unsafe or defective ladders may tip and cause serious or fatal accidents.

- Us only a non-s ip, s able ladder.
- Eng re that ladders are a fely pos tioned.



WARNING

Danger of tripping and falling! Unsafely positioned parts such as packaging, operator parts or tools may cause trips or falls.

- Keep the de-int allation area free of unnee a ry items
- ► Plae all parts where no-one is likely to trip or fall or r them.
- The general workplae guidelines mus be obe red.



WARNING

Danger due to optical radiation! Looking into an LED at short range for an extended period may cause optical glare. This may temporarily reduce vision. This may cause serious or fatal accidents.

New r look direct ly into an LED.



WARNING

Danger due to hot surfaces! After frequent operation, parts of the motor carriage or the control unit may become hot. If the cover is removed and hot parts are touched, they may cause

Allow the operator to o ol down before removing the o er.



WARNING

Risk of eye injury! Eyes and hands may be seriously injured by chips when removing screws.



► Wear a fety glae s



WARNING

Risk of injury in the head region! Impact with suspended objects may cause serious abrasions and cuts.



You mut wear a a fety helmet when dia e mbling a p ended parts

17. Taking out of operation, storage and disposal



CAUTION

Risk of injury to hands! Rough, projecting metal parts may cause abrasions and cuts when touched.

► Wear a fety glove s



NOTE

If there is an accumulator in the control unit, it must be removed by a trained electrician. See chapter "11.8 Installing and removing the accumulator."

The operator and its ae s ries mus be dis nnet ed from elet ria I power when taking them out of operation or during dia s mbly.

- 1. Pull the power plug out of the power outlet. If an ac mulator has been into alled, remove the ontrol unit over and disonnet the ac mulator from the ontrol unit, even also bapter "11.8 Installing and removing the accumulator." Then book that the power is disonnet ed.
- 2. Dia e mbly is in reverse order of intallation.

17.2 Storage

Store the paka ging units as follows

- in enb oe d, dry rooms s that they are protebed from mois ure
- at a s orage temperature from -25 °C to +65 °C
- e a re to preve nt falling
- leave room for unhindered pas ge



NOTE

Improper storage may damage the operator.

The operator must be stored in closed and dry rooms.

17.3 Disposal of waste

Obe re the interior tions for dip on I of pate ging, o mponents batteries and, if applied ble, the ac mulator.



⚠ DANGER

Danger of hazardous substances! Improper storage, use or disposal of accumulators, batteries and operator components are dangerous for the health of humans and animals. Serious injury or death may result.

- An mulators and batteries mus be s ored out of the reab of b ildren and animals
- ► Keep a mulators and batteries away from b emia I, meb ania I and thermal influences.
- ► Do not reb arge old a mulators and batteries
- ► Components of the operator as well as old a mulators and batteries mus not be dip oe d of with houe hold was e. They mus be dip oe d of properly.

17. Taking out of operation, storage and disposal



NOTE

Dispose of all components in accordance with local or national regulations to avoid environmental damage.



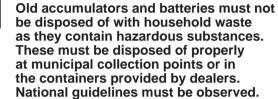
INFORMATION



All operator components that have been taken out of service must not be disposed of with household waste, as they contain hazardous substances. The components must be disposed of correctly at an authorised recycling centre. The local and national regulations must be observed.



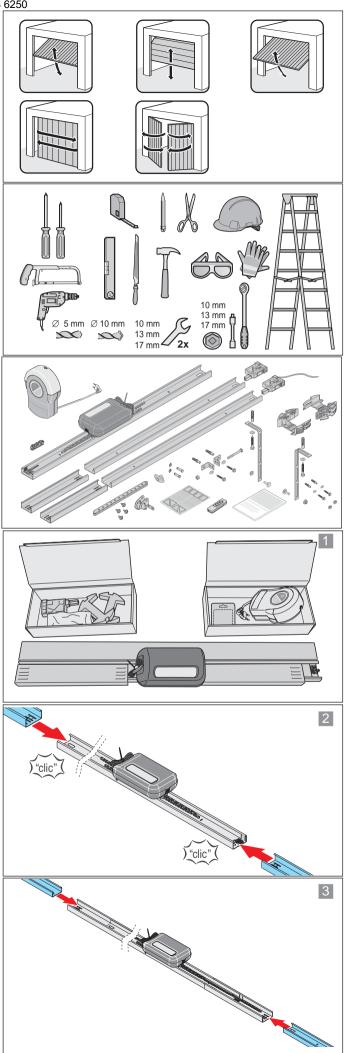
INFORMATION

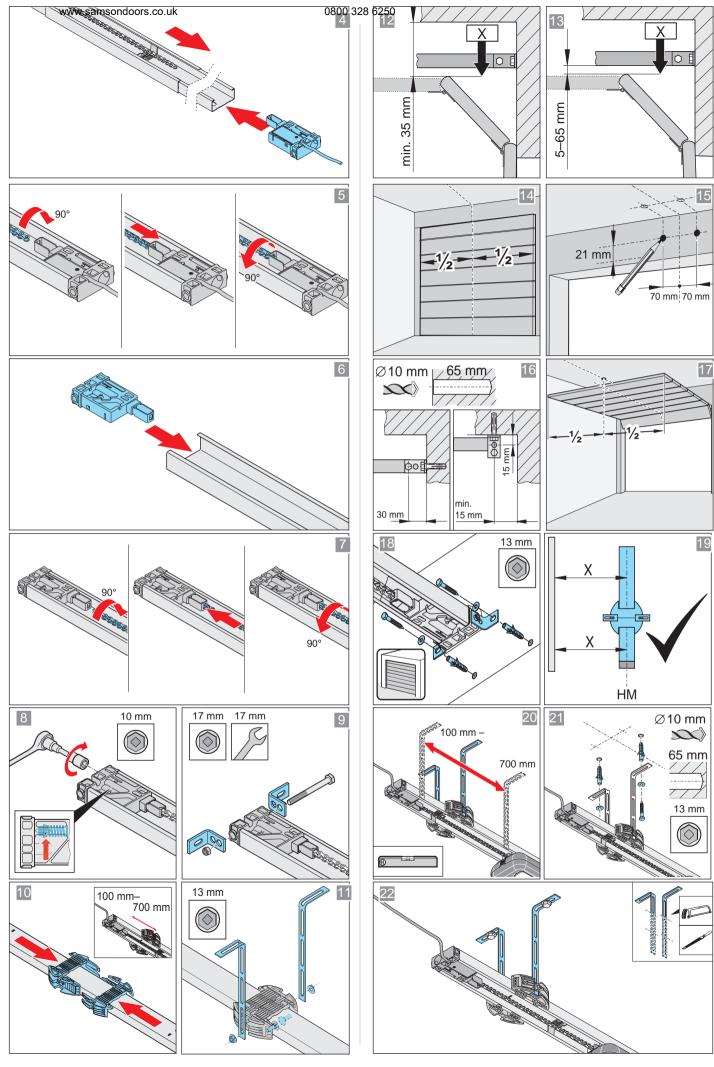


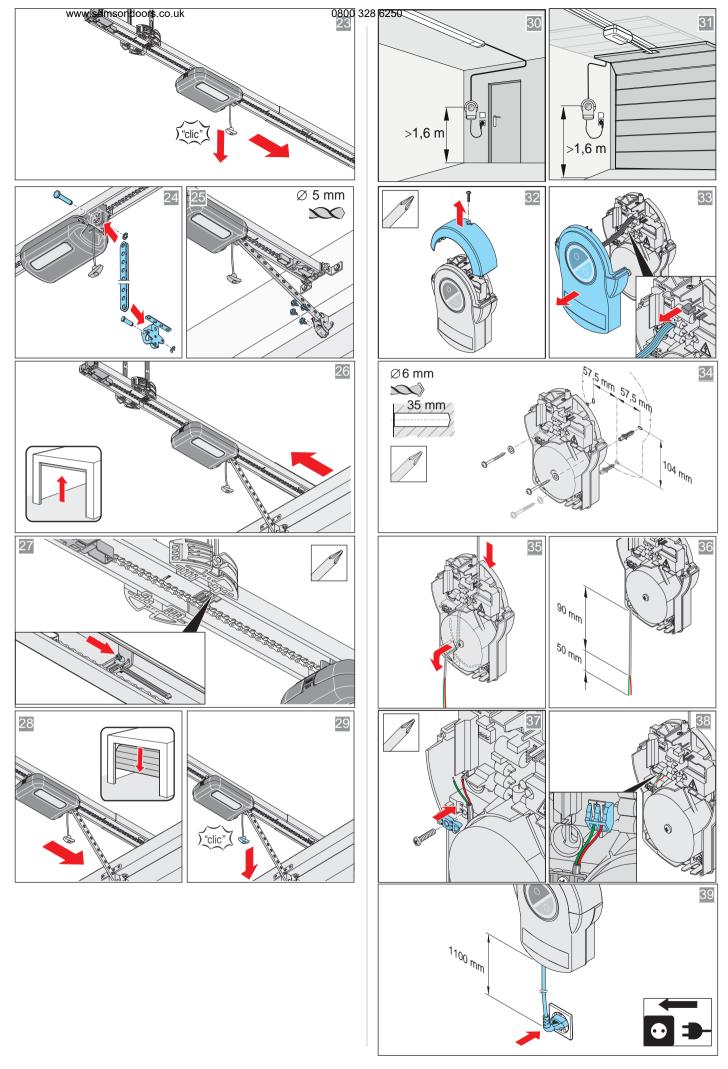
18. Short instructions for installation

The b ort into rut ions des ibe the into allation of variants A/B.

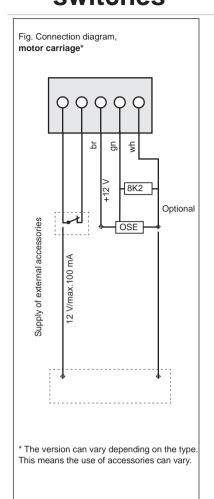
The **b** ort into rut ions do not replae the into allation and operating manual. Read this Into allation and Operating Manual **a** refully and, mot importantly, follow all warnings and **a** fety into rut ions. This will enter that **p** u a n into all the product a fely and optimally.

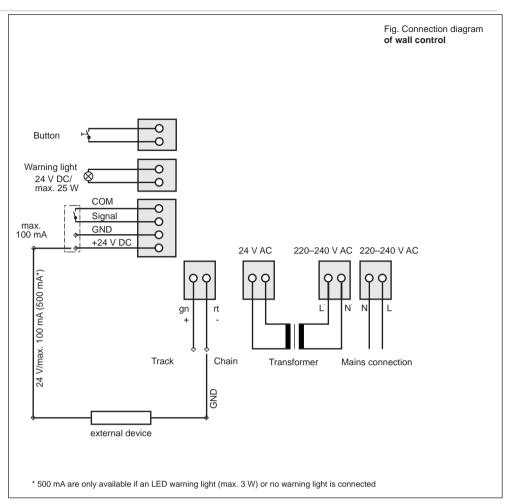






19. Connection diagrams and functions of the DIP switches





When o nnet ing external device spower-a ving mode must be deat in ted to ensire the power sipply.

| DIP switches on the motor carriage | ON | OFF H |
|---|--|--|
| N 2 2 1 4 8 5 4 8 5 4 8 5 4 8 5 1 | Automatic b ois ng funt ion actisa ted | Automatic b os ng funt ion deat is ted |
| 0N 1 2 3 4 | Partial opening active ted/ lighting funt ion deat ive ted | Partial opening deat is ted/ lighting funt ion at is ted |
| ON 1234 | | |
| 0 1 2 2 4 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |
| 0 N 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |

| DIP switches on the wall control unit | ON | OFF 🔛 |
|---|---|---|
| ON 1234 | Membrane kep ad/ Conex additional is ro it board Membrane kep ad T1 defines door OPEN Membrane kep ad T2 defines door CLOSE | Membrane kep ad/ Conex additional is ro it board Membrane kep ad T1, pule e quene Membrane kep ad T2 lighting funt ion/ partial opening |
| ON 1 2 3 4 | Relay (MUFU) trips during door move ment and if the door is not bove d* | Lighting funt ion |
| ON 1234 | Continuous power to the o mplete s em at ia ted | Power-a iv ng mode at is ted |
| ON 1234 | COM and Signal at is ted as button input (partial opening) | COM and Signal at is ted as a fety o ntat for photoe II |

^{*} e.g.: door to atus dip lay