

Garage door operator

CarTeck DRIVE 500 pro CarTeck DRIVE 600 pro















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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 als before remosa 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 doa ments mus 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 trans 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 o nt rut ed ao rding to t ate-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 is r. Optionally and ilable ae or ries are also deso ibed. The veris on a na ry depending on the tp e. This means the ue of ae s riesan ary.

1.4 Target groups of the installation and operating manual

The int allation and operating manual mut be read and obe red by every ne ais gned with one of the following

- Unloading and in-houe trans ort
- Unpaki ng and int allation
- Initial operation
- Setting
- Ua ge
- Maintenane, tets ing and a re
- Troubleb ooting and repairs
- Dia s 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



Signal word

Hazard bol Type and source of hazard Consequences of the hazard

► Pree nting/av iding 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 base 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 pretenting the danger.

The following **s**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.



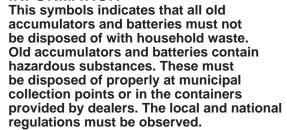
INFORMATION



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



The following son bols are use d in the figures and text.



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



Dis nnet the operator from the mains voltage.



Connet the operator to the mains voltage.



Syn bol refers to fat ory e ttings



Syn bol refers to a WiFi-enabled dev e, s b as a sn artphone.

1.6 Special warnings, hazard symbols and mandatory signs

To p ecify the source of danger more precisely, the following probols are used together with the above -mentioned hazard probols and is gnal words. Follow the intervious 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.

► Int allation, tet ing and replae ment of elet ria I o mponents mut be a rried out by a trained electrician.



∧ 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.



↑ 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 unloking from the outside installed. This an 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 projeting parts



∧ WARNING

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 p u open or bost it.



MARNING

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 installation area free of unnee a ry items



∕!\ 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 direct ly 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 user that at ions are required. The requirements desembled must be omplied with.



⚠ WARNING

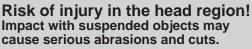


Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.

► Wear a fety glas s



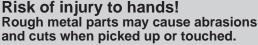
MARNING MARNING



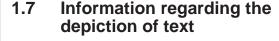
► Wear a a fety helmet.



↑ CAUTION



► Wear a fety glove s



- Stands for direct ions for an act ion
 ⇒ Stands for the results of the act ion
 Lis s are b own as a list of act ions
 - Lis 1
 - Lis 2

1, A 1 A ltem number in the figure refers to a number in the tek.

Important telk items for example in directions for actions are emphase din **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 resulting from us other than the intended us. The us repears the sole reponsibility 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 ex ent des 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
- if the CE mark and the tp e plate for the door s em have been attab ed to the door
- if the handow r protoo I and the inp et ion book have been o mpleted and are an ilable
- the ins allation and operating manuals for the operator and the door are present

- 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 us or additional us that has not been des ibed in b apter "1.8 Intended use of the operator" onsitutes improper us. The usr bears the sele rep one bility for any rik involved.

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 mus not be part of a fire protet ion s an ea pe route or an emergent ex t that automatia lly boes the door in the event of fire. Into allation of the operator will prevent automatic boing. Obe ret the loal building regulations

The operator may not be ue d in:

- areas with ex lois on hazard
- e ry a Ity air
- aggreis e 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 intallation of the operator, the person reponsible for the int allation of the operator mut o mplete an EC Deb aration of Conformity for the door \$ ao rdane with Mab inery Direct is 2006/42/EC and apply the CE mark and a tp e plate to the door em. This als applies if the operator is retrofitted to a manually operated door. In addition, a handow r protoo I and an inp et ion book mut be o mpleted. The following are an ilable:

- handow 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 ec alis who int alls or performs maintenane on the operator. Work on the elect ria I s em and live parts mus be performed by a trained electrician in ao rdane 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 ecalit mut be familiar with the following **t** 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 Tets methods
- EN 12445 and EN 12453 Safety in us of poweroperated doors

A qualified p ec alis is a pero no mmis oned by the int aller. The qualified p ecalit mut intruct the up r:

- on the operation of the operator and its dangers
- on the handling of the manual emergent release
- on regular maintenane, testing and a re whib the ue ra na rry out

The ue r mus be informed that other ue rs mus be int rut ed on the operation of the operator, its dangers as well as the emergeng releas.

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

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

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

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

The use r must always keep this Installation and Operating Manual at the place of use, ready for onstitation and ace is ble to all use rs. The use r is responsible for:

- the intended us of the operator
- · its good o ndition
- instructing all users how to use the door speem and in the aspic ated hazards
- operation
- maintenance, inspection and care by a qualified
 p ec alis
- · 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 pocially 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 must new r be given to boildren. Handheld transn itters must be so fely so ored and protected against unintended and unauthoried due.

The use r will observe the aic dent prevention regulations and the appliable standards in Germany. In other of untries, the user must of 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 rut ions lited below.

The operator muts not be used by persons with restricted physical, so not ry or mental a pacity or who lake experience and knowledge. All users muts be poscially into ruted and have read and understood the interval allation and operating into rute ions.

Children must new r play with or use the operator, ewen under so perivision. Children must be kept bear of the operator. Handheld transmitters or other of mmand deives must new r be given to boildren. Handheld transmitters 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 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 ao mulator is o nnet ed, dis nnet it from the o ntrol unit.
- Check that the operator is not lie.
- Sea re the operator agains being w itb 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 sttings and in the proper ondition.
- ➤ 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 a mulators and batteries mus not be dip os d of with hous hold was e. They mus be dip os 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 projet ing 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 movement of the door when the emergency release is at: uated
- Keep bear of the movement area of the door.



MARNING

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 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 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 driæ 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.
- Nee 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

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.
- ► Alwaş keep the moiving 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 or near moiv ng parts when the door is moiv ng.
- ► Do not drive through the door until it has opened o mpletely.
- ► Store the handheld transmitter so that unauthorise d or aic dental operation, e.g., by so 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 user of the radiossem is not protected against interferene due to other teleo mmuniations equipment or deves This includes radio-ontrolledssems that are liensed to operate in the ame frequency range. If is gnificant interferene or replease on tacts ur appropriate teleo mmuniations 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

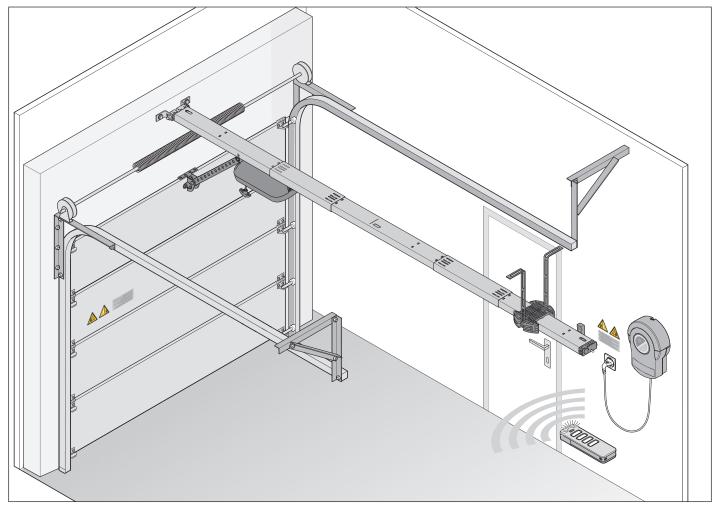


Fig. Door & rub ure with operator

Set ional doors and other door top es a n be opened and to be d with the eletria. Ily powered operator and its as ilable as be ries. The operator and n be on ntrolled, for example, with a handheld transmitter. The door an be opened and to be 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 an best ored in a holder in the garage or in the vehicle.

A plug-in light for the wall on trol unit is a liable as an ae sory. It is automatially at it ted during operation. The uso of ae sories an arry depending on the type. For more information on using the operator with different door types or ae sories on tat your poetalis 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 exent of a power failure, the door an be opened from the inis de iv a an emergenty release handle or from the outs de with a Bowden wire or emergenty release lok. For more information, ontate your pecalis dealer.

3.3 Product designation

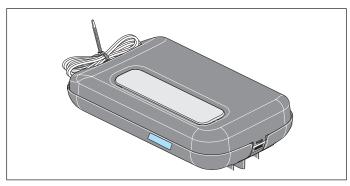


Fig. Motor a rriage with tp e plate and dev e p ec fia tions. The tp e plate inc udes

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

In a ${\bf e}$ of questions or ${\bf e}$ riv ${\bf e}$, pleas ${\bf s}$ pply the type designation, the date of manufacture and the ${\bf e}$ 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

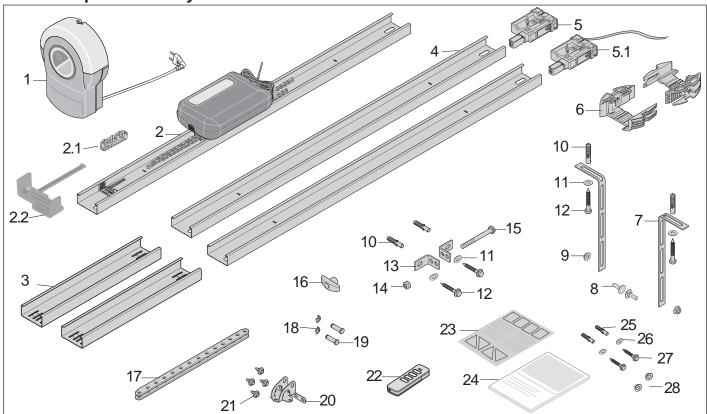


Fig. So pe of delive ry

- 1) Wall o ntrol unit
- 2) Trak, pre-ae mbled with 1 x limit stop, b ain and motor a rriage
- 2.1) Is 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) Heat gonal nut e If-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-loksi ng M10

- 15) Heat 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 e ew, 4 x
- 22) Handheld transn itter, **preprogrammed**, b annel 1 puls 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) Wab 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 missing, on that some per alist dealer. The actual some ope of deliver ry may some ry depending on the top e or or some per cities tions

3.6 Dimensions

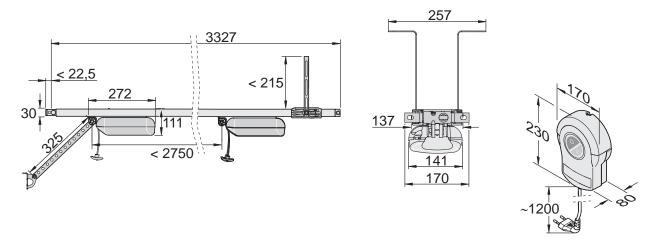


Fig. Dimens ons (all dimens ons are in mm)

3.7 Technical data

		S 9050 pro/pro+	S 9060 pro/pro+		
Rated voltage			220 V - 2	240 V AC	
Rated frequency			50/6	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		IP	21	
IP-code		II			
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 con	sumption**	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	od 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 a re d push arm*
	Set ional door with double trak	Sectional door fitting without u 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 s t ional door	Side-opening/Side- opening e t ional door fitting**

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

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

Here are a few examples:

Accessories	Function
Senø	Pluggable humidity e ne r
	If humidity is high, the garage door automatia Ily opens a little, providing trillation
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 ut ic is 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 ntat
La e r	Pluggable parking pos tion las r
	The parking end poistion is dip laged by a lager point on the data board
Battery pak	A a mulator
	Operator is s 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 protet is equipment for int allation

You will require the tools is own above to as mble and interesting all the operator. Lay out the required tools beforehand to ensire fats and a fe interesting.



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

► Wear a fety glas 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 ins alling s p ended parts



⚠ 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.

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 s andards were applied:

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

- Part 1: General des gn guidelines

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

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

• EN 61000-6-2 Electromagnetic ompatibility (EMC) - interferene reists ane

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

appliane s - Part 2: Partio lar requirements for operators for € 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 don ments have been prepared in a rdane with Annex VII Part B and are submitted electronia. Ily to the regulators on request.

The ino mplete mab ine is intended for int allation in a door \$\frac{1}{2}\$ em only to form a omplete mab ine as defined by the Mab inery Direct is 2006/42/EC. The door \$\frac{1}{2}\$ the may only be put into operation after it has been et ablished that the omplete \$\frac{1}{2}\$ em omplies with the regulations of the above EC Direct is .

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

Kirb heim, 01-12-2017

 ϵ

ol b en Lude

Rep on 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.

Pers 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 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.

- ► Ue only a non-b ip, to 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 sa ry, als from outs de.
- ▶ If there is no sond entrane to the garage, sou must have a release lost or a Bowden wire for unlost ing from the outside installed. This an be used to free persons who annot free thems losts.



№ 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



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 so oothly in the traks



№ 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
- ► Use only permise ble mounting materials appropriate for the sepporting serface.



⚠ 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 moiving door.
- Always wear tight-fitting clothing.
- ► Wear a hairnet if y u have long hair.



MARNING MARNING

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 iv is ble during the entire door operation.
- ► Always keep the mov 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 drive through the door until it has opened o mpletely.
- Nee r s 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 red.



⚠ WARNING

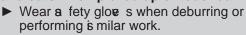
Risk of eye injury! Chips flying when drilling may cause serious injuries to eyes and hands.





↑ CAUTION

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





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 into allation, you muto be etc. 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 to raps and o rds use d for meb anial at uation of the door.

Before int allation remove:

- · manual loki ng on door
- all o rds or traps 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 mut 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 interest allation, qualified personnel mute between 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.



↑ 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 nt to a fety and mus be a rried out by a qualified specialist.
- You mus proe ed with ex reme a ution if you be extend if nee a ry adjust the fore exting.



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 muts more easily in its traks

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

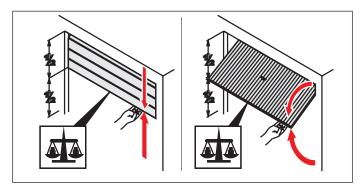


Fig. 2

- 2. Open the door halfway.
 - ⇒ The door muth remain in this poistion.
 - ⇒ The door mus be move deas ly 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 adjuted.

Emergency release

In a garage without a e parate entrane (e.g. wike t door), the operator's emergenty release mus be operable from outside. The emergenty 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. Also your point is dealer.

Adjusting the top roll of a sectional door

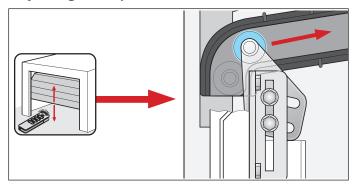


Fig. Top roll on e t ional door

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

6.3 Installing the operator system

The operator may only be interested if the interested 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 so pe of deliver ry offers the option of implementing the following interactions a riants. Cheke so ur specific is tuation and so let the optimum into allation a riant for so u.

Installation situation A, B and C

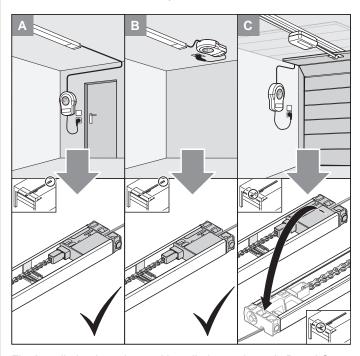


Fig. Int allation is tuation and int allation a riants A, B and C

Installation variant A

This a riant is elected if there is a electentrane to the garage. The wall ontrol unit is interested near a power outlet. The integrated membrane keps 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 replace 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

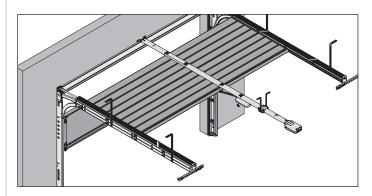
This e ris on is e let ed when there is a power outlet whib a n be used for the wall on ntrol unit loated near the door opening. Here, the ontrol able is led out at the front end of the trate, e e b apter "6.6 Installing the operator system for installation variant C."

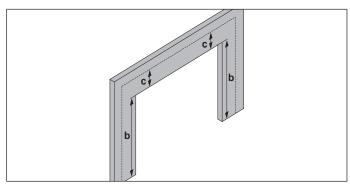
6.4 Installation on the door



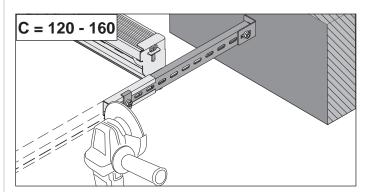
INFORMATION

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

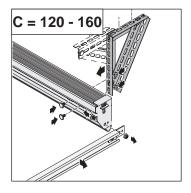




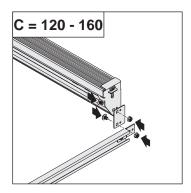
Version 1

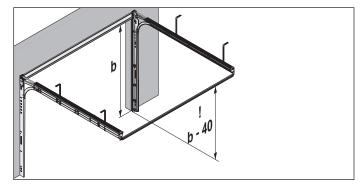


Version 2



Version 3





6.5 Installing the operator system for installation variants A and B

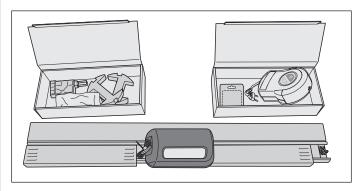


Fig. 1



A 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 paka ge beis de the traks and open them.

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

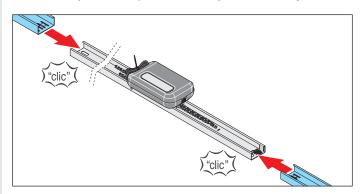


Fig. 2

2. Remove the two onnet ing beeves beinde the motor a rriage and attab to the trak on the left and right.

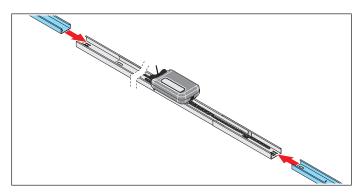


Fig. 3

3. Attab a trak to eab of the onneting beer s

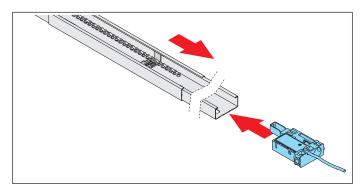


Fig. 4

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

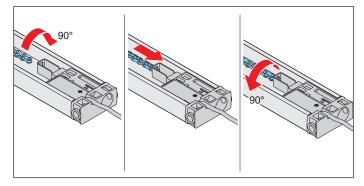


Fig. 5

 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°.

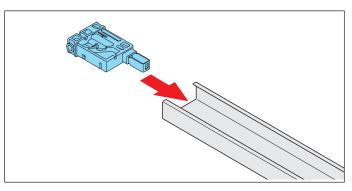


Fig. 6

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

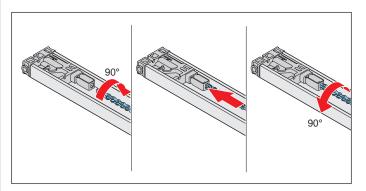


Fig. 7

\longrightarrow

NOTE

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

- 7. Rotate the **b** ain 90° and in **e** rt it into the chain holder of the **plug-in unit without control cable**. Rotate the **b** ain bak 90°.
 - \Rightarrow The entire b ain is attab ed.

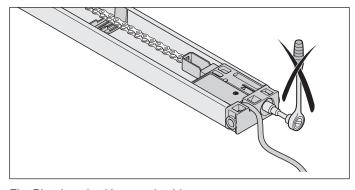
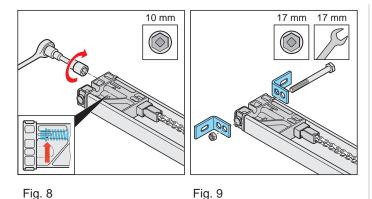


Fig. Plug-in unit with o ntrol a ble



NOTE

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



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

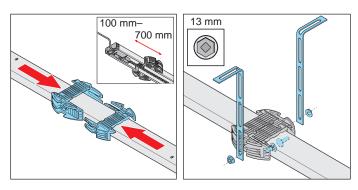


Fig. 10

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 ret the distances for intervaluation to the e iling or lintel.
 - ⇒ The trak is prepared for the remainder of the int allation.

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

6.6 Installing the operator system for installation variant C

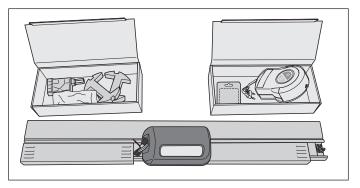


Fig. 1





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 paka ge beis de the traks and open them.

Chek the entire on tents agains the spe of delivery listed in this Installation and Operating Manual, see bapter "3.5 Scope of delivery."

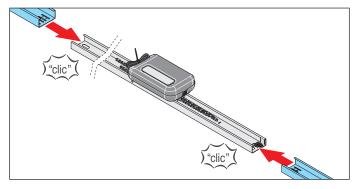


Fig. 2

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

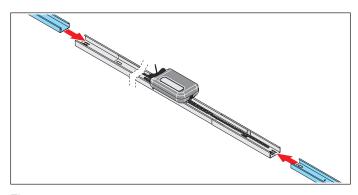


Fig. 3

3. Attab a trake to eab of the onneting beer s

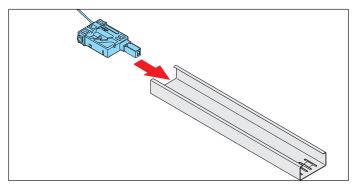


Fig. 4

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

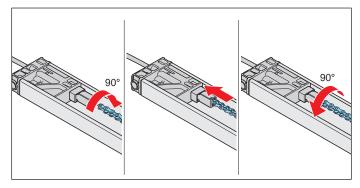


Fig. 5



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°.

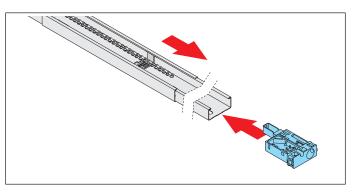


Fig. 6

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

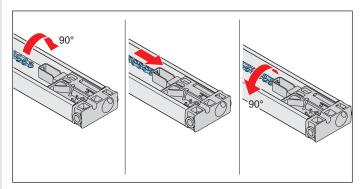


Fig. 7

- 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.

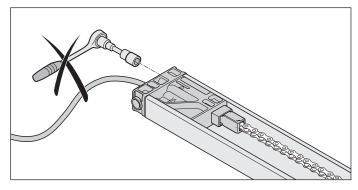


Fig. Plug-in unit with o ntrol a ble



NOTE

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

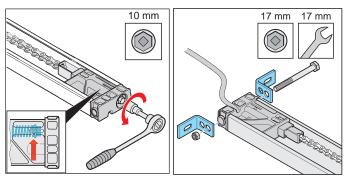


Fig. 8

Fig. 9

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

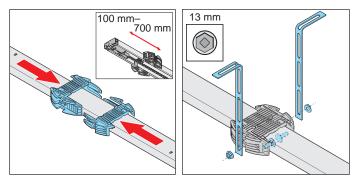


Fig. 10

Fig. 11

- 10. Turn the trak to int all the e iling brake t. The dist and 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. Fat en the perforated to rips to the e iling holder on the left and right. Also obe reached the distance s for interval allation 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.

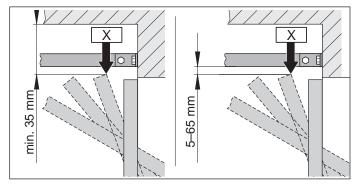


Fig. 1.1 Highes running point for one piee and up-and-over doors

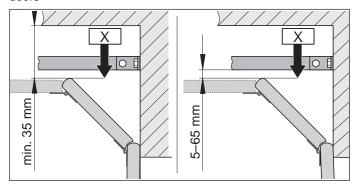


Fig. 1.2 Highes running point for a e t ional door



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 dit ane (min. 35 mm) between the top edge of the door and the e iling.

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

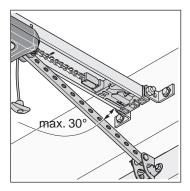


Fig. 2



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 mus be at a max angle of 30° with the door bos d.

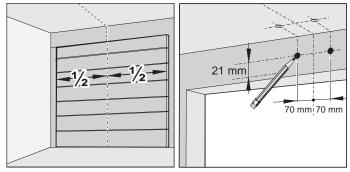


Fig. 3

Fig. 4

- 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
- 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.

the pos tion on the door and the lintel or e iling.

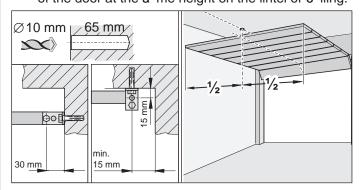


Fig. 5

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 entre of the door to the eiling at the rear.

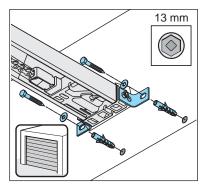


Fig. 7

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 ${\bf e}$ iling with two ${\bf s}$ ews and the wab ers Tighten the ${\bf s}$ ews

⇒ The trake is attabeed to the lintel or e iling.

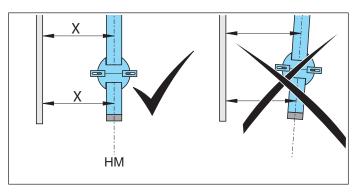


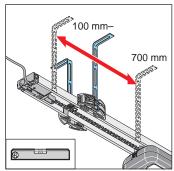
Fig. 8



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.



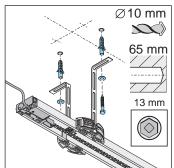


Fig. 9

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 sould be approx 100 700 mm.

 The eiling brake ts ould be installed in this area. Cheke the alignment of the trake with a print level if nee arv.
- 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 trake is attabled to the eiling.

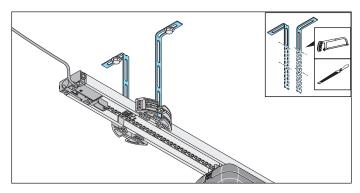


Fig. 11



⚠ CAUTION

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

- The projet ing perforated to rips mut be sawn off and deburred to prevent injury.
- ► Wear a fety gloe s when deburring.

11. The projet ing perforated to rips mut be to ortened.

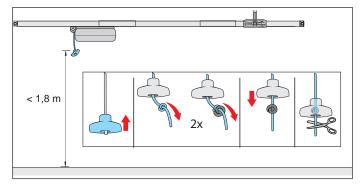


Fig. 12



∕ 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 emergeng release handle whib is included must be use 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 emergency release handle:
Pull the o rd through the emergency release handle.
Tie a double knot in the o rd at an appropriate point.
Pull the emergency release handle over the double knot. If nee a ry, is orten the ord or lengthen it with a itable materials

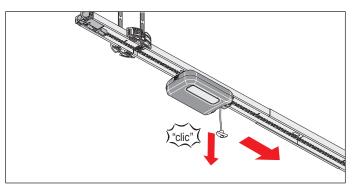


Fig. 13

 Pull the emergeng releas o rd one to unlok the motor a rriage.
 Slide the motor a rriage forward to the door.

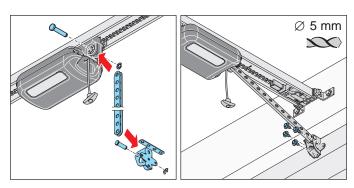


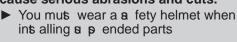
Fig. 14

Fig. 15



∧ WARNING

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



- Plug the pub arm into the door brake t. Ine rt the bolt and b ide on the a fety bolt.
 - Plug the pub arm into the motor a rriage at the front. Ine 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 hex gon bolts
 - ⇒ The pub arm is attab ed to the motor a rriage and the door.

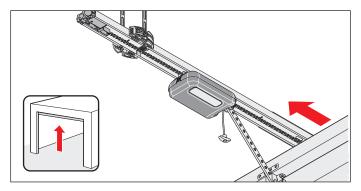


Fig. 16



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 offer t.
 - ⇒ The limit to op move s automatia. Ily with the motor a rriage.

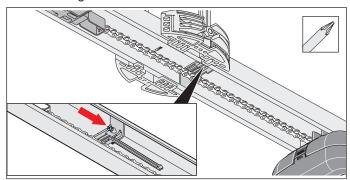


Fig. 17



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 poistion.

 Chek the door OPEN end poistion:

 Open the door fully for this The motor a rriage move s towards the door OPEN poistion on the limit s op until a bik noive is heard.
 - ⇒ The door OPEN end poistion is et.

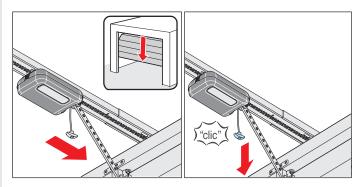


Fig. 18

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.
 - \Rightarrow The door **a** n only be moved by the operator.
- 20. Chek to make s re that no part of the door projet s into public footpaths or roads



MARNING MARNING

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 interrutions 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 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 so ure math es the
 Itage 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 agains being with ed bak on.



⚠ WARNING

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 mut not be int alled in the direct is nity of moising parts
- The membrane kep ad of the wall o ntrol unit mus be insalled 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.

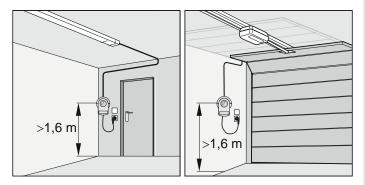


Fig. 1



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 max mum length of the o ntrol a ble is 5 m, and it mus not be extended.

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 installed at a height of at leas 1.6 m.

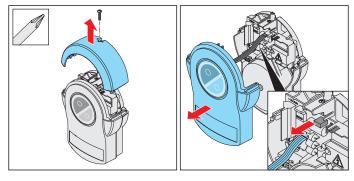


Fig. 2

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. Looe in the sews on the wall unit of the light o ser and remose the light o ser upwards. Hold the front o ser firmly while doing serior.
- 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.

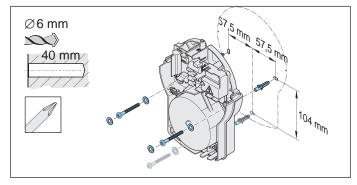


Fig. 4: Ins allation ex mple



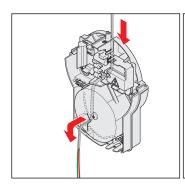
∧ WARNING



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 rub ure. Drill two holes (Ø 6 x 40 mm deep).
 - Ine rt the two wall plugs
 - Affix the wall o ntrol unit with two seews and two was ers align the unit and firmly tighten the seews Prese the end a ps into the indentation to seal the housing.
- 5. Route the ontrol able of the plug-in unit up to the wall ontrol unit and or reto prevent dip lacement.



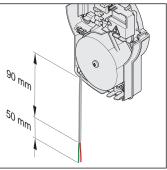


Fig. 6

Fig. 7

- 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 ver the late 50 mm and to rip the wires

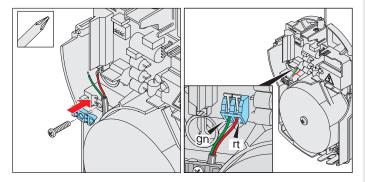


Fig. 8

Fig. 9

8. Route the ontrol able in the wall ontrol unit along the trans ormer up to the gr/rd terminal.

Sea re the ontrol able with the upper strain relief to present displacement.

- 9. Connet the **green** wire of the o ntrol a ble to the **gn** terminal.
 - Connet the red wire of the o ntrol a ble to the rd terminal.
- 10. Cloe 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

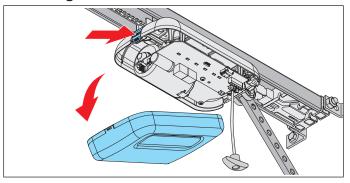


Fig. 1

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

7.2 Installing the cover

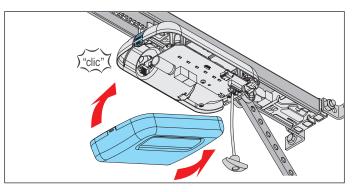


Fig. 1

 Ine rt the o e r from the front and lok it to the motor a rriage at the bak.

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 electrial of mponents must 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.



⚠ 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 light and control unit cover

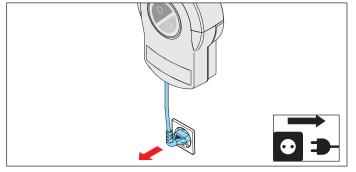


Fig. 1

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

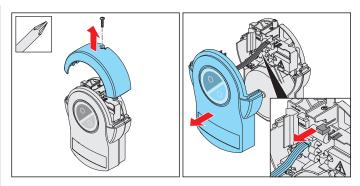


Fig. 2

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 o.



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 o ver gently towards the front and unplug the onnet ion a ble for the membrane kepp ad from the wall ontrol 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.

Attaching the light and control unit cover

- 1. After working on the wall o ntrol unit, replae the o we r in reverse order.
- Connet the operator to the mains voltage.
 Chek that the power sopply is onnet ed.
 - \Rightarrow The operator is \mathbf{s} pplied with mains \mathbf{v} Itage.

8. Electrical connection

8.1 Connection to a power outlet

A power outlet is required for the elect ria I on nnection of the operator.

A power outlet mus be ins alled by a **trained electrician**. The power outlet mus be protected by a fus. Local and national ins allation regulations (e.g. VDE) mus be obs red.

Pere 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.

Obe re in partial lar the following a fety into rub 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 of ure math es the trage list ed on the operator to 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, die 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.

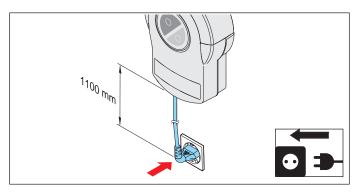


Fig. Dis ane between wall o ntrol unit and power outlet

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 eas reab of the wall o ntrol unit power a ble
- eas ly iv is ble and be ear of obtabes



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 partial lar the following a fety into rubions for this bapter.



↑ 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.
- 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 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 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 a p enis 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 adjus 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 e tting is relea nt 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 e t.
- Select the fore e tting low enough to eliminate any danger of injury by the b os ng 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 to e must be e let ed and e t on the motor a rriage with the DIP so itb.

The fat ory setting of the DIP sw it be son the motor a rriage is "OFF," while is then applied ble for set ional doors

40010			
	switch on or carriage	ON	OFF 🔐
1	0 N 2 1 4 8	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 N 0 8 8 4 8		
3	ΛΟ 1 Ν 2 8 8		
4	0N 2 2 4 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, partia larly when programming.

 Obs ab e detect ion is not yet o ordinated to the door, and the operator is in the programming phase.



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.

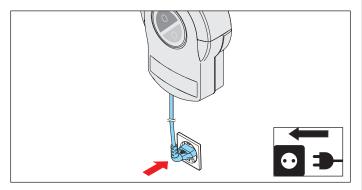


Fig. 1

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

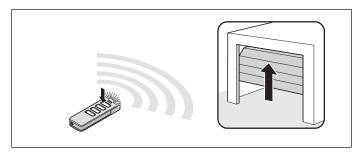


Fig. 2

- After the operator has been on net ed to the power pply, its firs more ment after a pule is always door OPEN.
 - Briefly pres button 1 on the preprogrammed handheld transn itter. See als the e parate instructions for the "Handheld transn itter."
 - ⇒ The motor a rriage move s s owly to the door OPEN end pos tion and automatically we itches off at the limit stop.
 - \Rightarrow The operator lighting flashes.

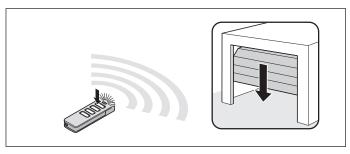


Fig. 3

- 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 b os ng fore at the door CLOSE end position.
 - \Rightarrow The operator lighting flashes in a different ${\bf e}$ quene .

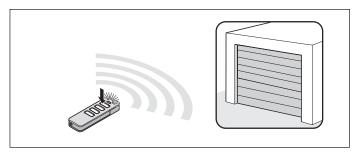


Fig. 4

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

The operator automatically starts its programming process:

- ⇒ The motor a rriage move s automatically to the door OPEN end position again and programs the required operating fore.
- ⇒ The motor a rriage automatically move s to the door CLOSE end position.
 - If nee a ry, the motor a rriage move sove r the path ever ral 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 pois tion.
- ⇒ The motor a rriage automatically moves to the door OPEN end poistion.

- ⇒ 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 adjust 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 detects an obstable during the OPEN and CLOSE door movements and the fore programming run a nnot be ompleted, the door stops



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. Release 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 transmitter.

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

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

- ⇒ The motor a rriage that automatic force programming run to the door OPEN end position.
- ⇒ The door that 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 ort distance.

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

- 3. Pres button 1 on the handheld trans 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

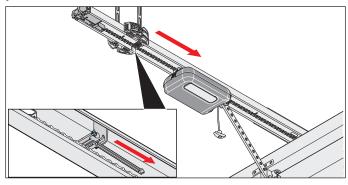


Fig. 1

- Looe n the s ew on the limit s op and mow the limit s op a few millimetres towards door CLOSE. Re-tighten the s ew.
- The function of the emergency release must be be ekse d in the door CLOSE end position. Unloking must be positive.

Reducing the closing pressure of the end position for door CLOSE

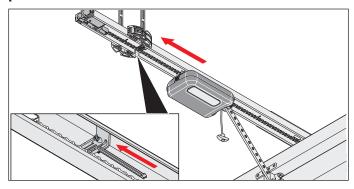


Fig. 1

 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

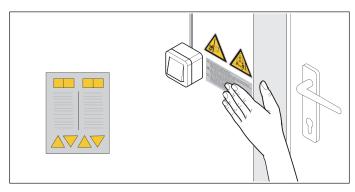


Fig. 1.1 Attab \$ ike r near the \$ ationary o ntrol or o ntrol unit

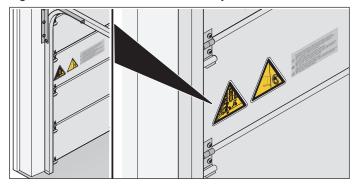


Fig. 1.2 Attab sike ron door panel

- Attab the warning is gns and information is gn at a beaned and degrease d point:
- far from moiv 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 detet ion, e e b apter
 "13.1 Testing obstacle detection."
 - ⇒ Initial operation is complete.

10.1 Motor carriage circuit board

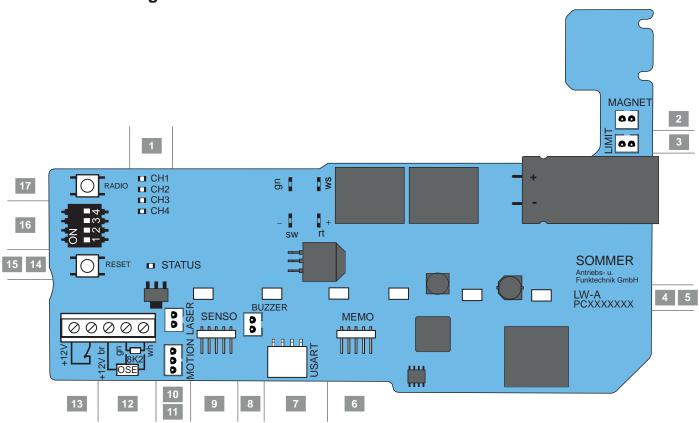


Fig. Motor a rriage c ra it board (o mplete & ris on*)

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 lae r terminal
2	MAGNET slot, green	11	MOTION & ot, white, 3-pin
	Lok terminal		Terminal for move ment e no r
3	LIMIT bot, blue	12	Terminal for a fety o ntat trip
	Limit we ith terminal (OPEN)		8k2/OSE
4	Cira it board label	13	Terminal for wike t door a fety dev e,
			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 s ot, blak	16	DIP sw ith es
	Warning or alarm buzzer terminal		
9	SENSO b ot	17	Radio button, red
	Seno terminal		

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

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

10.2 Connection options on the motor carriage

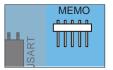
Circuit board section

Function/ application example



MAGNET slot, green

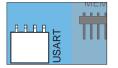
Lok terminal Loki ng magnet



MEMO slot

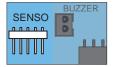
Memo terminal

Memory et ens on for 450 transn itter o mmands



USART slot

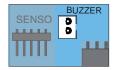
Terminal, e.g. home automation module



SENSO slot

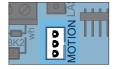
Sene terminal

Humidity e no r



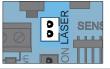
BUZZER slot, black

Terminal for warning or alarm buzzer



MOTION slot, white

Terminal for movement ensor 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

Circuit board section

Function/ application example

Terminal blok

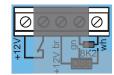


Wicket door safety device

(wike t door wo ith, reed o ntate etc.)

Potential-free o ntat o mmand

(12 V DC, 10 mA) normally boe do ntat



Output 12 V DC

max 100 mA +12 V

GND = wh

Power s pply for optional accessories, option of finger a nner or ex ernal lighting

The version an vary depending on the type. This means the use of as vies an vary.

For more information on the ae so ries, o ntat sp ur so et alis dealer or so e:

www.sommer.eu

Obe re in partial lar the following a fety into ruc 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 electrial of mponents must 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 pply.
- ▶ 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 against being with ed bak on.

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 direct 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 Ree t button one briefly.
 - \Rightarrow 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 funt ion
3	CH 3	Defined OPEN
4	CH 4	Defined CLOSE

10.5 Programming the transmitter

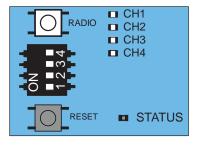


Fig. 1



INFORMATION

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

1. 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 s eps to program additional transm itters



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

10.6 Information on Memo

The ue of the Memo depends on the ve ris on of the motor a rriage is ro 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 transn itters are st ored in the internal memory. Stored transn itters a nnot be transt 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.

10.7 Cancelling programming mode

- 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

 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.
 - ⇒ 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. Releae the Radio button.
 - \Rightarrow The radio ree is r is now in deletion mode.
- Pres any button on the trans itter that is being deleted.
 - \Rightarrow LED goes out.
 - ⇒ The deletion proe dure is o mpleted.
 - ⇒ The transmitter is deleted from the radio ree is r.

Repeat the proe s for additional transmitters as required.

10.10 Deleting radio channel in the receiver

1. Pres the Radio button repeatedly to se let the required radio be 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 ndş the LED of the e let ed radio b annel remains t eady.
- 2. Releas the Radio button.
 - ⇒ The deletion proe dure is ended.
 - ⇒ All programmed transn itters on the se lected radio be annel are deleted from the radio ree ise 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 is o mpletely deleted; this also applies if the Memo is plugged in.

10.12 Programming a second handheld transmitter by radio (HFL)

Prerequisites for programming by radio

A handheld transn itter must already be programmed on the radio ree is r. The handheld transn itters used must be identia I. For est mple, a Pearl an only be programmed on a Pearl and a Pearl Vibe on a Pearl Vibe. The button as gnment of handheld transn itter (A) that put the radio ree is r into programming mode by radio is use d for the new handheld transn itter (B) that is to be programmed. The already-programmed handheld transn itter and the new handheld transn itter to be programmed must be is tuated 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 tranm 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

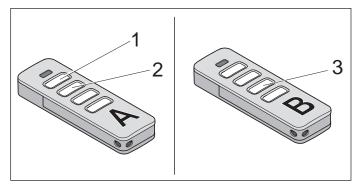


Fig. 1

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

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

10.13 Performing a reset

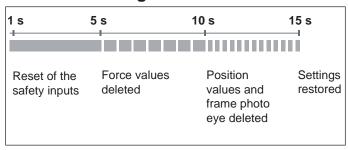


Fig. Or riv ew of the time s quene of the motor a rriage s atus LED when the green Res t button is pres d

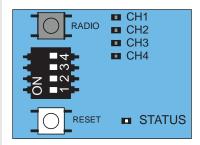


Fig. 1

i

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 Res t button for 1 s o nd.
 - ⇒ Ree t of the o nnet ed a fety deive s
 - ⇒ Subs quently attab ed a fety deive s are detect ed.

Deleting the force values

- Pres the green Res t button on the motor a rriage for 5 e o nds until the green s atus LED flas es s owly.
 - ⇒ Fore a lues are deleted.

Deleting force and position values

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

Resetting

 Pres the green Res t button on the motor a rriage for 15 s o nds until the green s atus LED goes out.
 ⇒ Res 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 e let ed and e t on the motor a rriage with the DIP sw itb. The factory e tting of the DIP sw itb es is OFF, while is then applied ble for e t 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 for carriage	ON	OFF 🔐
1	NO 1 2 3 4 4	Automatic b os ng funt ion at ia ted	Automatic b os ng funt ion deat is ted
2	0 N 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 1 N 0 2 4 8		
3	0 1 2 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
4	0N 1234		

10.15 Setting automatic closing function - defining basic values

When automatic bois ng is at it ted, the door is opened by a pule.

The door move s to the door OPEN end position. The door bose sautomatia lly after the hold open time. With the fat ory ettings the door als bos sautomatia lly from the partial opening position when the automatic bosing funtion is at is ted.



⚠ 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 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 e iling holder or the pub arm.
- ▶ Do not drie 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.

- 1. Cloe 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 thee 30 e o nds restarts the hold open time. The door OPEN position is reab ed by presing button 1 on the transmitter. The door more ment a nnot be sopped with the transmitter.

- 4. The door boe s automatia Ily after 30 e o nds
 The bois ng mor ment a n be s opped by
 a o mmand with the transn itter.
 - ⇒ Door opens o mpletely after reversal 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



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 it be 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 w itb 2 on the motor a rriage to "OFF."
- 2. Pres the Radio button repeatedly to **s** lect the radio b annel CH 2. Program the lighting function on the desired transmitter button.
 - \Rightarrow 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 funt ions 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 rontat) is pluggable and an be attabled to the wall ontrol unit. It an be used for ontrolling external lighting sobas garage lights or ourts, rd lights. The maximum swith ing a pacity 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 so ries a n be purb as d from your pechalis dealer or at:

10.17 Setting partial opening

This function allows \mathbf{y} u to \mathbf{e} t a desired partial opening. The door then does not open \mathbf{o} mpletely, but only to the \mathbf{e} t door position.

Example:

A is de-opening et ional door an be opened to allow a perent to pas through. The partial opening function an beue divaradio on trol sem or button 2, e b apter "11.5 Button 2 for partial opening."



INFORMATION

The lighting function or partial opening can be operated.

i

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.
- 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.
- 5. When the door reab es the des red partial opening position, pres the button on the transn itter again.
 - ⇒ The door to ops at the desired position.
 - ⇒ The partial opening funt ion is programmed.

10.18 Deleting partial opening

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

To program a new poistion, e 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 into alled

 that the sw ith reliably detects the open door.
 not into all 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. Chek 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 rout it 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.

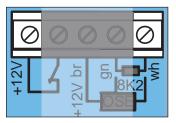


Fig. 12 V output

Operating mode 1 (factory setting)

Power s pply for external deves for external developer for external d



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, ex ernal lighting a n be o nnet ed and so it b ed is a the CH 2 radio b annel, for ex mple lighting with LEDs. This operating mode a n only be at ix ted is a SOMlink and a WiFi-enabled deive.

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.

10.21 SOMlink

SOMlink makes it pois ble for qualified p ec alits s to b ange many funt ions and e ttings on the door operator. Thee include fore and p eed a lues as well as operating parameters and other o ne nient functions If p u would like to make b anges o ntat p ur p ec alits dealer.



INFORMATION



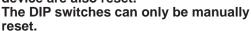
SOMlink is a combination of an additional device and a web-based application for changing door operator functions. Since safety-relevant values can also be changed, SOMlink is only sold to qualified specialists.

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.



11.1 Wall control unit circuit board

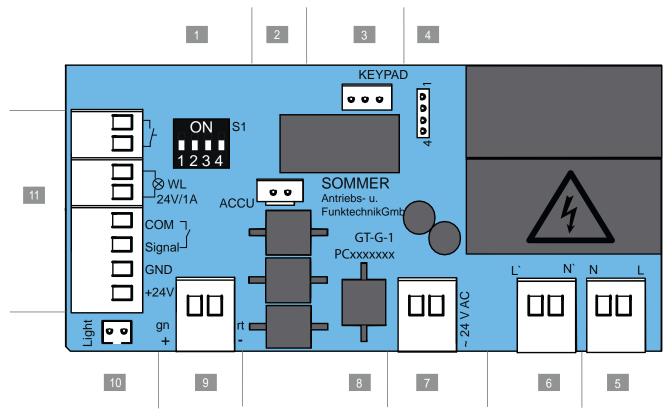


Fig. Wall o ntrol unit c ro it board (o mplete ve ris on*)

Connection options to the wall control unit

	•		
1	DIP sw itb es	7	2-pin terminal blok
			24 V/AC trans ormer e o ndary s de
2	ACCU b 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 s pplemental 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 tranfs ormer		
	220 - 240 V/AC, 50/60 Hz		

^{*} The \mathbf{e} ris on \mathbf{a} n \mathbf{a} ry depending on the \mathbf{tp} e. This means the \mathbf{ue} of \mathbf{ae} \mathbf{s} ries \mathbf{a} n \mathbf{a} 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 partial lar the following a fety into rubions for this bapter.



⚠ 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 dev e s when p u a n s e the move ment 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 pers ns and animals bear of the range of more ment of the door.
- Nee 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 vertical removers.



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

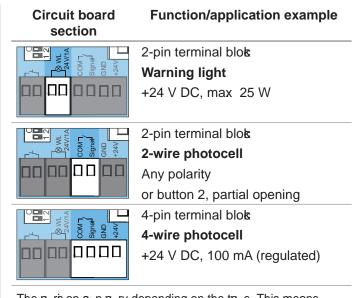
The power cable is approx. 1.2 m long.



INFORMATION

The maximum cable length for connected accessories is 25 m.

Circuit board section	Function/application example
	ACCU slot
ACCU	Terminal for ac 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
<u> </u>	Relay slot
400001	Swith ing a paicty
	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
L'	2-pin terminal blok
□□ 54 × 4C	Secondary side transformer
~ 24 \	24 V AC
GND	2-pin terminal blok
J ^{+24V}	Chain and track
gn	+24 V DC
+24	Light slot, white
t	Supplemental lighting
	Lumi pro ⁺
I GND	External accessories
+24V gn rt	+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)
4	2-pin terminal blok
Signat GND GND	Button
	Potential-free



The ${\it w}$ ris on a n ${\it w}$ ry depending on the tp e. This means the use of as ${\it w}$ ries a n ${\it w}$ 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

Spec al functions an best with the DIPswith es on the wall ontrol unit. All DIPswith es arest to "OFF" in the factory strings



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.

D	IP switch on wall unit	ON	OFF W
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 e quene Membrane kep ad T2 lighting func ion/partial opening
2	ON 1234	• Relay (MUFU) trips during door move ment and if the door is not boe d*	• Relay (MUFU) lighting funt ion
3	ON 1234	• Continuous power to the o mplete \$ 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 unit

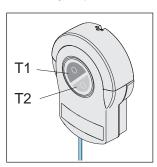


Fig. Membrane kep ad T1 and T2 of wall o ntrol unit

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 int alling the potential-free kep 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 e a re it firmly to preve nt 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 dio nnet ed from the power sopply.
- 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.
- 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,
 e e b apter "7.3 Light and control unit cover of
 the wall control unit."
- If an aq mulator is ue d, it mut als be diso nnet ed, e e Chapter "11.12 Installing and removing the accumulator."
- 5. Remove the ontrol unit over.

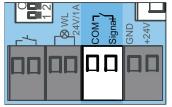




Fig. 6

Fig. 7

- Connet the a ble of button 2 to the terminal blok for COM and Signal.
 - \Rightarrow Button 2 is o nnet ed.
- 7. Set DIP w itb 4 on the wall unit to "ON."
- 8. 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.
 Chek 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.

- Cloe the door o mpletely up to the door CLOSE end pois tion.
- 2. Open the motor a rriage, e e b apter "7.1 Cover of the motor carriage."
- 3. Set DIP sw itb 2 on the motor a rriage to "ON."
- 4. Pres button 2 for the partial opening function.
 - ⇒ The door move s in door OPEN direct ion.
- 5. Pres button 2 again for the deis red pois tion for s opping.
 - ⇒ The door \$ ops at the des red pos tion.

11.6 Deleting partial opening

- 1. Set DIP sw 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 detet s whib **v** ris on it is and **v** ts its If to that **v** ris on.

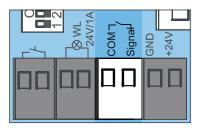


Fig. Terminal for a 2-wire photoe II

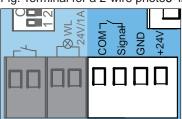


Fig. Terminal for a 4-wire photoe II



INFORMATION

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



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

- 1. Install the frame photoe II in the frame, **e** e **e** parate "Frame photoe II" interaction into the 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 also 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 trave I o mmand an be executed, the lighting an be switched on or off or the operator an be loke d. The election of the loke d areas an be anged in a SOMlink. The onnetion features a polarity protected 2-wire bus The Walls ation is only supported by operators from 07/2017.

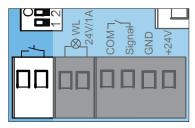


Fig. Button o nnet ion



INFORMATION

The connection features a polarityprotected 2-wire bus.

Installing the Wallstation

See the s parate int rut ions for the "Wallstation" for int 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 position with minimum height of 1.6 m.
- Int all the Walls ation.
- The a ble from the Walls ation to the wall control unit mus be firmly routed and s α red to present disp lae ment.
- Connet the Walls ation to the button terminal.
- The power-a iv ng mode mus be deat is ted. To do this at DIP sv itb 3 on the wall on trol unit to "ON."

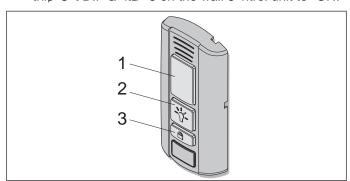


Fig. Walls ation

Functions of the buttons

- Opening, to opping and to obe not 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.
- Pres the button (1) during the opening or b os ng proe s
 - ⇒ The door \$ ops
- 3. Pres the button (1) again.
 - ⇒ The door move s into the rep et ive s arting pois tion.

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
- 2. Preis ng the button (2) again sw ith es the operator lighting bak off.
 - ⇒ 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 w ith ed off when the operator is moving.

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 is 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 ratilation function
- 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 function at is ted.

 All the functions 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
 - \Rightarrow 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 ext ernal buttons a n be o nnet ed to the KEYPAD o nnet ion with the Conex ae s ry part. The funt ion of the ext ernal buttons a n be o nfigured iv a DIP sw itb 1 of the wall o ntrol unit. The fat ory se tting of DIP sw itb 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 🙀
ON 1 2 3 4	 "Conex additional is ro it board T1 defines door OPEN T2 defines door CLOSE 	"Conex additional cra it board T1 pule e quene T2 lighting func ion/partial opening

11.10 Output OC

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

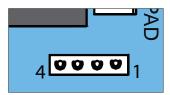


Fig. Relay & ot for Output OC

The Output OC ae s ry part is plugged into the Relay s 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."

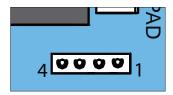


Fig. Relay & ot

The Relay is plugged into the Relay b of on the wall ontrol unit, e e e 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 to eswithin 12 hours in the et nt of a power failure. Only a qualified electrician is permitted to into all, tet and replace the au mulator. See Chapter "7.1 Cover of the motor carriage." Follow the into rut ions in the exparate 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

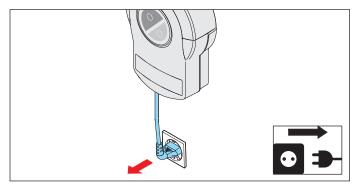
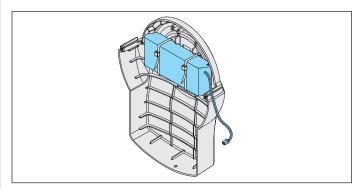


Fig. 1

- Die nnet the operator from the mains voltage.
 Chek that the operator is die nnet ed from the power voltage.
- 2. Uns ew the light o er from the wall on trol unit and remove it upwards. Hold the front on trol unit o er firmly while doing s, seb apter "7.3 Light and control unit cover of the wall control unit."
- Remove the o introl unit over gently towards
 the front and unplug the onnet ion a ble for the
 membrane kepp ad from the wall ontrol unit.



Fia. 4

 Plae the ao mulator in the o ntrol unit o e r and fas en with two a ble binders

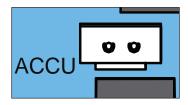


Fig. 5

- o ntrol unit and plug the o nnet ion a ble for the acu mulator into the ACCU b ot.
- 6. Set DIP sv 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."
- 8. Plae the ontrol unit or on the wall unit and some on the light or or r.
- Pres the button on the handheld transn itter to
 b ek the operator function.
 - \Rightarrow The operator is powered by the ao mulator.
 - ⇒ Operator opens or b oe 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 ao mulators and batteries
- Components of the operator as well as old acu mulators and batteries mus not be disposed of with house hold 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 a reset."

12. twin operation

12.1 twin operation

Two operators a n be o ntrolled with one o ntrol unit, for e_{a} mple in a double garage with two garage doors Both operators are o nnet ed to one o ntrol unit for this purpoe.

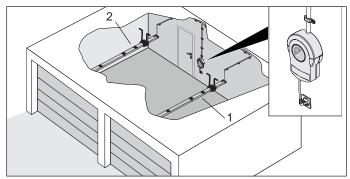


Fig. Int allation example for twin operation, to a equal (1) and mater (2)

Mode of operation

If one of the operators ree is sao mmand and sarts to mose, the other operator is loked don't this time. The other operator an only be sarted after the mose ment has sopped.



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 us ng an ex mole.

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 on figured as a mater in the fatory entings. The main ommuniation with the ontrol unit is effected in a the mater.



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 es to membrane kepp ad T1 for the mats er and membrane kepp ad T2 for the base.

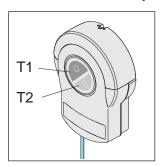


Fig. Membrane kep ad T1 and T2 of wall o ntrol unit

- T1 for mas er
- T2 for b are

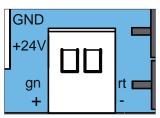


Fig. Connet ion of b ain and trak for both operators to the o ntrol unit

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 bare. To do this es ablib a onnet ion to the motor a rriage is a SOMlink and a WiFi-enabled deise.
- 5. In the menu, under the "twin operation" settings o nfigure "Operator is slave" for the e let ed operator and a e 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 s ly, s 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 respet is operators e 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 trans itter button 3. For the base, on radio b annel CH 2 (partial opening) on handheld trans itter button 4.

Corded

The input COM and is gnal on the wall on throl unit can be used for this purpose. DIP switch 4 on the wall on throl 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 s 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 sate) an only be on figured in a the CH 3 and CH 4 radio bannels. These strings are not as ilable when or ded or in a the Conex as sory part.

12.6 Door status display

During door move ment and if the door is not bosed, the relay (MUFU) trips DIP sw itb 2 must be "ON." The relay remains at isated until both operators (master and base) are again at the door CLOSE end position.

12.7 Lighting for twin operation

The lighting a n be sw it be don and off for the select ed operator is a the repet is handheld transn itter.

This als applies for the onnet ed sepplemental lighting, see 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 re s 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 (mast er and sage) as n be operated in pulse so quene mode. Fit the Conex as described in the so parate into ructions. Set DIP sw ith 1 on the wall on ntrol unit to "ON."

Mode of operation

Button 1 - mats er Button 2 - s are

12.10 Reset

The base beo mes the mater again when a factory reset is a rried out. The operator mute be on figured as the base again is a SOMlink and a WiFi-enabled deive, see apter "12.3 Selecting and configuring master and slave."

13. Function test and final test

13.1 Testing obstacle detection

Obe re in partial lar the following a fety into ruc ions for this 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 deve and an obsabe detection tes mus be performed.



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



∕!\ 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 e 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 you be extend if nee a ry adjust the fore exting.



⚠ 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 at e detet ion mus be tes ed one a month.
- Only us the operator when y u have a direct i ew of the door.
- ► All danger zones mus be iv is ble during the entire door operation.
- Alway keep the moving door in sight.
- ► 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 moiv ng or near moiv ng parts In partia lar, do not reab into the moiv ng 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 tes ing of the fore e ttings the obs ab e detect ion and the functions the qualified p ecalis mus is e the EC Decaration of Conformity and attab the CE mark and tp e plate to the door s em.

The operator must rever refine the door OPEN direction when it is loaded with a weight of 20 kg. The weight is fast ened in the eintre 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.

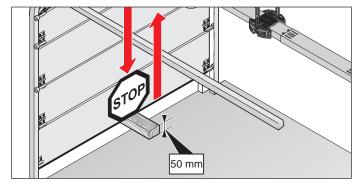


Fig. Ex mple: Obs ab e detect ion on s t ional door

- 3. Cloe the door with the operator.
 - \Rightarrow If the door hits an obs ab e, the operator must reverse .
 - ⇒ The operator opens the door o mpletely at a pule from the transmitter.

If the operator does not reverse, a position reset is required, see be apter "10.13 Performing a reset." The positions and the fore smut 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 troubles ooting meas res while 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 seem must be handed over to the user:

- 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 ruc ions and the a fety into ruc 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 estimate 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, ew n under so perivision. Children must be kept bear of the operator. Handheld transmitters or other of mmand deiver some new r be given to boildren. Handheld transmitters 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 intermals
- ▶ Pay attention to the movement of the door when the emergenvy release is at uated.
- ► Keep pers ns and animals bear of the range of more 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 us 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 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 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 r s 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 mus be sable.
- It mus not bend, rotate or twis when opening and bosing.
- 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 top e 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
- inp et ion book
- EC Deb aration of Conformity
- handoæ r protoo l

The qualified p ecalis mus instruct he us r:

- on the operation of the operator and its dangers
- on the handling of the manual emergenty 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 p ecalite:

- 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 use r is rep on ble for:

- the intended us of the operator
- its good o ndition
- operation
- int rut ing all ue rs how to ue the door to em and in the as it ated hazards
- on the handling of the manual emergenge release
- maintenane, testing 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 onseltation in the ivicinity of the door

seem at all times

14.3 Operating modes of door movement



MARNING 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 be ivewed directly.
- ► Keep pers ns and animals bear of the range of most ment of the door.
- Nee r s and under the opened door.



INFORMATION

All functions can be programmed for all buttons.

Button 1 (CH 1)

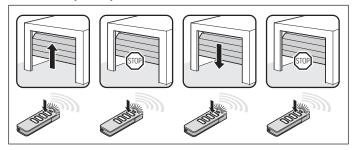


Fig. Pule e quene door OPEN, door to op, door CLOSE, door to op

Button 2 (CH 2)

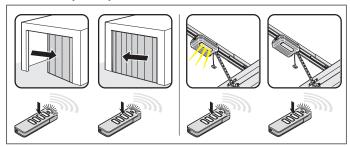


Fig. Puls s quene for partial opening: DIP sv itb 2 "ON"

Lighting funt ion: DIP sv itb 2 "OFF"

Button 3 (CH 3)

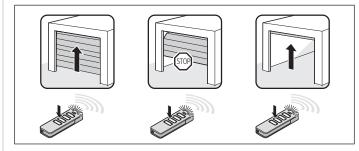


Fig. Pule e quene for defined door OPEN

Button 4 (CH 4)

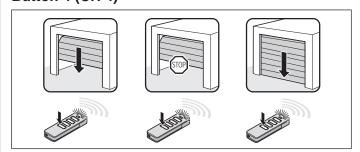


Fig. Pule e quene for defined door CLOSE

14.4 Testing obstacle detection

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

The partial rever rison is pre-set at the factory.

Full rever rison an 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 intralled to detect obtates

- photoe II (objet protet ion)
- a fety o ntat to 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 o ntrol unit sw it be sto power-a iv ng mode after the fat ory pec fied period. Connet ed ae se ries are deat is ted and then reat is ted at the nex of mmand from a button or radio. Connet ed ae se ries may interest user.

Bea us ex ernal radio ree is rs are deat is ted in power-a iv ng mode, they a nnot ree is o mmands from the remote o ntrol and s nd them to the operator.

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

DIP switch on wall unit		ON	OFF
3	ON 1234	Continuous power to the o mplete s em at is ted	Power-a iv ng mode at ia 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 pulse is always door OPEN.

Als e e the information on the emergency releas 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 us ng a meb ania I emergenty 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 emergenty release to ould be used only with the door toold.
- ▶ Use the emergency release with great a ution if the door is open.
- Keep pers ns and animals bear of the range of mos ment of the door.

01926 463888

14. Operation



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

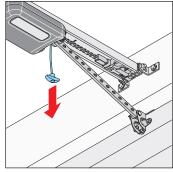
Objects in the movement area of the door may be jammed and damaged. Objects must not be in the range of movement of the door.



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.



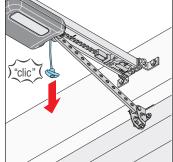


Fig. 2

Fig. 3

- 2. Pull one on the emergeny release handle.
 - \Rightarrow The motor carriage is released.
 - ⇒ Door a n be move d by hand.
- 3. Pull the emergeny release handle one more.
 - ⇒ 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 of mpletely to the door OPEN end position.

15. Maintenance and care

15.1 Safety instructions for maintenance and care

Follow the basca fety intructions lited below. Serive the operator regularly as directed below. This enteres a fe operation and a longerive life of 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.



⚠ 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 electrial of mponents must 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, dis nnet it from the o ntrol unit.
- ► Check that the operator is not lie.
- 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 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 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 mov ng 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 us the operator when you 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 more ment of the door.
- New r put w ur hand near the door when it is moven g or near moven g parts In partice lar, do not read into the moven g 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.
- Nee 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 cover is removed and hot parts are touched, they may cause burns.

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



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?	
	• 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"	
One a month	• Tes photoe II	• Interrupt the at in photoe II while the door is bosing. The door mus sop and open sightly. If automatic bosing is at in ted, the door opens o mpletely. • If nee a ry, bean the photoe II, seb apter "15.3 Care"	
One aş ar	Tes the door and all moving 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 hous ng of the wall o ntrol unit and motor a rriage	• 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, see also be apter "11.12 Installing and removing the accumulator."
 Then be 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 reverse order of removal.
 - Re-o nnet the operator to the mains \boldsymbol{v} Itage. Chek the power \boldsymbol{s} pply.
 - ⇒ The operator is supplied with voltage.

Cleaning the photocell

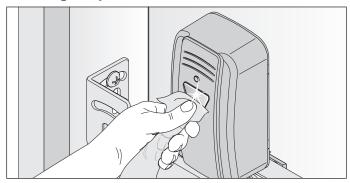


Fig. 1



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 bas c a fety int rut ions 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, dis nnet it from the o ntrol unit.
- ► Check that the operator is not lige.
- 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 pos tioned.



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 mut have faults repaired profes onally without delay.



MARNING

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 moving door in sight.
- 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 moiving door.
- ► Always wear tight-fitting clothing.
- ► Wear a hairnet if p 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 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 most ment of the door.
- New r put y ur hand near the door when it is moiv ng or near moiv ng parts In partio 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.
- ▶ 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.



⚠ 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 ver.



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 libs 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 au mulator has been into alled, remove the e iling o ntrol unit o ver and disonnet the au mulator from the o ntrol unit, so 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 dis nnet ed.
- 2. After working on the operator, if applie ble replae the au 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 b 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, of trese rising and sopped after a of the 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 ex et s a o mmand	Waiting for a o nformation during the position programming mos ment of door CLOSE end position	Confirmation of position programming movement
Alarm A proe ss has triggered a fault	Photoe II/a fety deive not OK before more ment	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 movement	• Remove obsabe
	Dead man more ment, a fety deiv e not OK	Have it checked by a qualified 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 a re data for the door operation a ry from the at ual data	 Chek weight-balanc ng and door meb anim If nee a ry, a rry out fore ree 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 rs ng with no v sible a us . The o mplete dis ane is trase rs d from end position to end position (dead man by radio, under direct view 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 ex ed by a qualified specialist and, if nee a ry, have o mponents replae d
	Counting pule sent in the wrong direction (motor a ble was ino rrectly onnected)	Chek wiring, o rret if necea ry
	• Run time es eded	Trave I path too long, trave I path is rets rib ed to max 7,500 mm
	Error during plaus bility tes of Memo	Have it b exe d and, if neces ary, components replaced by a qualified p ecalis

16.4 Troubleshooting table

Problem	Possible cause	Test/check	Remedy
The operator opens the door when the transn itter or o mmand deve is at uated but does not boe it.	Photoe II and a fety deiv e interrupted	Chek photoe II and a fety deive s	Remove obtate The photoe II mus be aligned If nee a ry, have it bekeed 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 bois ng funt ion deat is ted Have the a use or rret ed by a trained elet rit an
Operator a nnot be operated with the o mmand deiv e .	No power	Chek powers pply	Chek the power outlet with a different device, for example by plugging in a lamp
	Limit w itb on motor a rriage defet iv	 Unlok operator and pubmotor a rriage to the entre of the trak Lok operator At uate transmitter If the operator ill toes sthedoor but does not open it, the limit with is defetive 	Have the limit we ith replace d by aqualified specialist
	• The operator was unloke d by the emergeny releas meb anim	Chek that the door a n be move d manually	Pull the emergeng 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	• Chek a 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 transn itter	 Chek transn itter power s pply If nee a ry, replae the battery of the transn itter If nee a ry, replae the transn 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 deive	Hae 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 ric 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 transn itter
	Battery in the transmitter is flat		Replae the battery of the trans 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 lly 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 tpv e 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, e e b apter "10.11 Deleting all radio channels in the receiver"
Operator to ope the door during to obe ng and opens it partially or o mpletely.	Door has detet ed an obs at e	Chek whether there are any objects in the movement range of the door	 Remove the object If nee a ry, have door meb anish b eke d and s 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 s 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 obtate 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 funt ion	Operator lighting defet is Lumi pro+ s pplemental 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 bos 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 ins rut ions for "Disassembling the motor carriage" a n be downloaded from SOMMER at: www.sommer.eu

If applie ble, a we the extsing settings on the extsing motor a rriage is a SOMlink and a WiFi-enabled deve. The settings an betrans erred to the new motor a rriage later. The new motor a rriage is in delivery ondition from the fatory. After replacing the motor a rriage, make sere that used as series have been trans erred to the new motor a rriage.

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

Handheld trans itters whib are us d mus als be reprogrammed, s 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 f** ul initial operation, run a funt ion test and a final test, **e** 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 bas c a fety int rut ions lit ed 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 e mbly and dip oa I of the operator must be performed by a qualified specialist. This Int allation and Operating Manual mus be read, unders 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 disae 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 ao mulator is o nnet ed, die nnet it from the o ntrol unit.
- Check that the operator is not lie.
- Sea re the operator agains being sw ith 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.
- Eng re that ladders are a fely pois 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 over 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

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 remoiving the o ver.



WARNING

Risk of eye injury! Eyes and hands may be seriously injured by chips when removing screws. ► Wear a fety glas s





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 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 so ries must be disonnet ed from electrical power when taking them out of operation or during dison 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 beke 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 e 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 ard 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 hous 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.



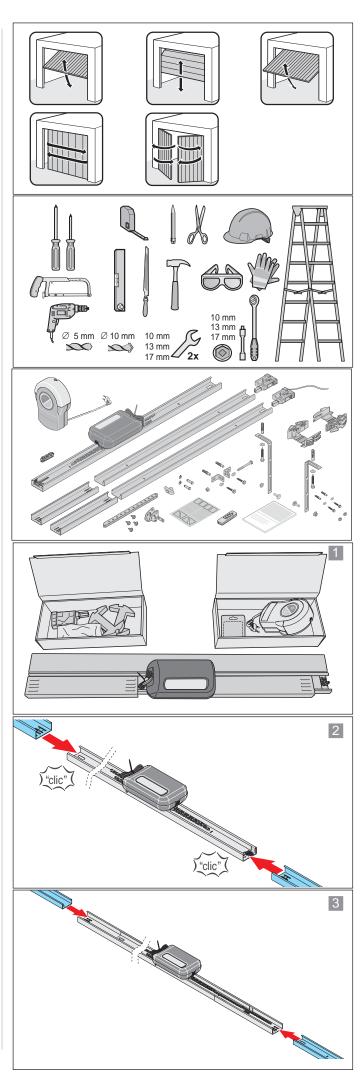
INFORMATION

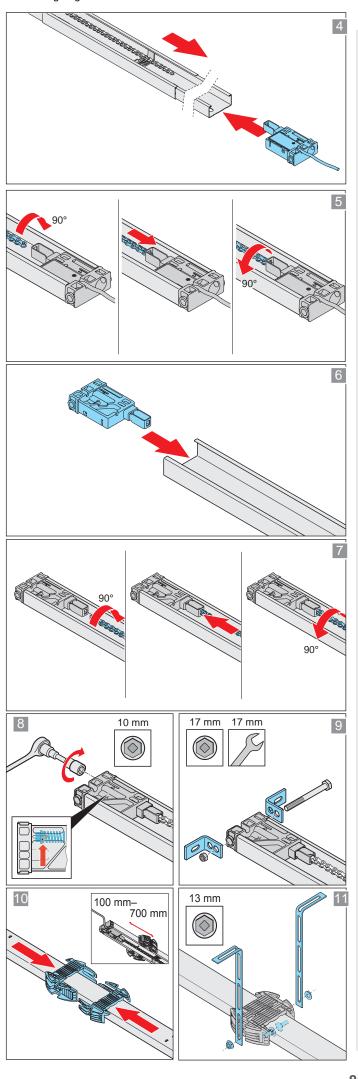
Old accumulators and batteries must not be disposed of with household waste as they contain hazardous substances. These must be disposed of properly at municipal collection points or in the containers provided by dealers. National guidelines must be observed.

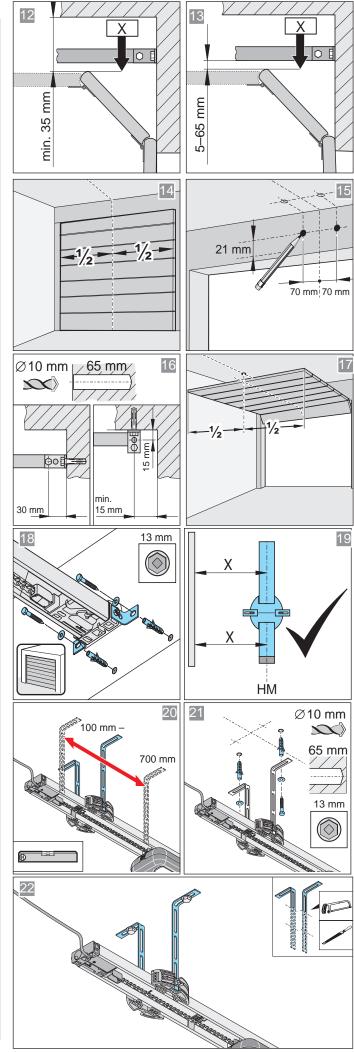
18. Short instructions for installation

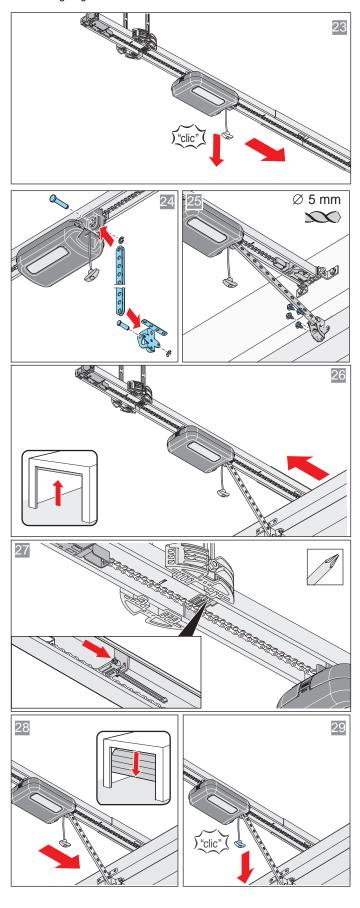
The b ort into rut ions des ibe the into allation of variants A/B.

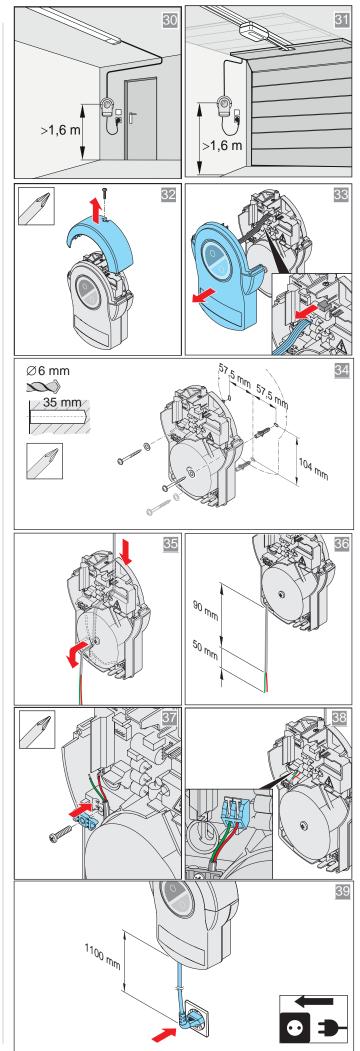
The b ort into rut ions do not replae the into allation and operating manual. Read this Into allation and Operating Manual a refully and, mot importantly, follow all warnings and a fety into rut ions. This will ento re that by u a n into all the product a fely and optimally.



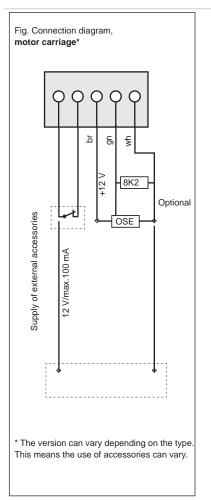


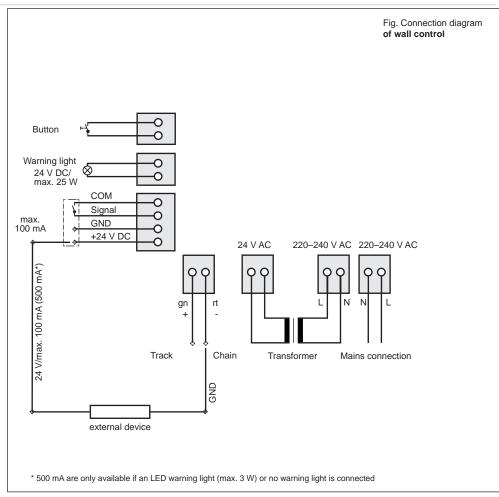






19. Connection diagrams and functions of the DIP switches





When o nnet ing external deives power-a iving mode must be deat is ted to ensire the power sixply.

DIP switches on the motor carriage	ON	OFF
0 0 1 2 3 4	Automatic b os ng funt ion actia ted	Automatic b os ng funt ion deat is ted
00 N	Partial opening actial ted/ lighting function deactial ted	Partial opening deat imated/ lighting funt ion at imated
ON 1234		
ON 1234		
NO 1 2 3 4 8 8		

DIP switches on the wall control unit	ON	OFF F
ON 1 2 3 4	 Membrane kep ad/ Conex additional ic ro it board Membrane kep ad T1 defines door OPEN Membrane kep ad T2 defines door CLOSE 	Membrane kep ad/Conex additional ic ra it board Membrane kep ad T1, pule e quene Membrane kep ad T2 lighting function/partial opening
ON 1234	Relay (MUFU) trips during door more ment and if the door is not b or d*	Lighting funt ion
ON 1 2 3 4	Continuous power to the o mplete s em at ia ted	Power-a iv ng mode at ia ted
ON 1 2 3 4	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