



Operating instructions

Last updated: 06.2020

Motor unit for sliding gates

Comfort 860 S, 861 S



works with



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About this document

- Original operating manual.
- Part of the product.
- Reading and subsequent storage mandatory.
- Protected by copyright.
- No part of this manual may be reproduced without our prior consent.
- Subject to changes which are in the interest of technical improvements.
- All dimensions in millimetres.
- Figures are not to scale.

Safety instructions

WARNING!

Safety information regarding a danger that can lead to death or serious injuries.



CAUTION!

Safety information regarding a danger that can lead to minor or moderate injuries.

NOTICE

Safety information regarding a danger that can lead to damage or destruction of the product.

Meaning of symbols

- Action prompt
- ✓ Check
- List, itemisation
- Reference to other parts of this document
-  Reference to separate documents that must be observed
-  Factory settings

1. Safety information

WARNING!

Risk of death due to a failure to observe the operating manual!

This manual contains important information for handling the product safely. Particular reference is made to possible dangers.

- Read this manual through carefully.
- Follow the safety instructions in this manual.
- Store the manual in an accessible location.

1.1 Correct use

The motor unit is designed exclusively for opening and closing sliding gates.

Use is only permissible:

- On gates with a horizontal travel path, i.e. with absolutely no slope (gate systems with an incline are special cases and require advice from a specialist).
- In technically faultless condition.
- Following correct installation.
- In compliance with the data in the technical specifications.

→ "2.2 Technical data"

Any other use is deemed to be improper use.

1.2 Target groups

1.2.1 Operator

The operator is responsible for the building in which the product is used. The operator has the following tasks:

- Knowledge and safekeeping of the instruction manual.
- Instruction of all persons who use the door system.
- Ensure that the gate system is inspected and maintained regularly by qualified specialist personnel.
- Make sure that inspection and maintenance are documented in the inspection logbook.
- Safe and proper keeping of the inspection logbook.

1.2.2 Specialist personnel

Qualified specialist personnel are responsible for assembly, commissioning, maintenance, repair, disassembly and disposal.

Requirements applicable to qualified specialist personnel:

- Knowledge of the general and specific safety and accident-prevention regulations.
- Knowledge of the relevant electrical regulations.
- Training in the use and care of appropriate safety equipment.
- Knowledge of the application of the following standards
 - EN 12635 ("Doors and gates - Installation and use"),
 - EN 12453 ("Safety in use of power operated doors - Requirements"),
 - EN 12445 ("Gates - Safety in use of power operated gates - Test methods").
 - EN 13241-1 ("Gates - Product standard - Part 1: Products without fire resistance or smoke control characteristics")

Electrical work by qualified electricians exclusively, in accordance with DIN VDE 0100.

Requirements applicable to qualified electricians:

- Knowledge of the basics of electrical engineering.
- Knowledge of national regulations and standards.
- Knowledge of the relevant safety regulations.
- Knowledge of this operating manual.

1.2.3 Users

Instructed users operate and care for the product.

Requirements applicable to instructed users:

- Users are instructed in relation to their work by the operator.
- Users must have been instructed on how to use the product safely.
- Knowledge of this operating manual.

Special requirements apply to the following users:

- Children aged 8 and above.
- Persons with reduced physical, sensory or mental capabilities.
- Persons with a lack of experience and knowledge.

These users are only authorised to operate the product.

Special requirements:

- The users must be supervised.
- Users must have been instructed on how to use the product safely.
- The users must understand the dangers involved in handling the product.
- Children are not allowed to play with the product.

1.3 General safety advice

Persons or objects must never be moved with the aid of the gate.

In the following cases, the manufacturer accepts no liability for damages. The guarantee on the product and accessory parts is voided with:

- A failure to observe these operating instructions.
- Misuse and improper handling.
- The assignment of unqualified personnel.
- Modifications or changes to the product.
- The use of spare parts that have not been produced or approved by the manufacturer.

The product is manufactured according to the directives and standards mentioned in the Declaration of Incorporation. The product has left the factory in perfect condition with regard to safety.

Batteries, accumulators, fuses and bulbs are excluded from warranty.

Further safety information can be found in the relevant respective sections of the document.

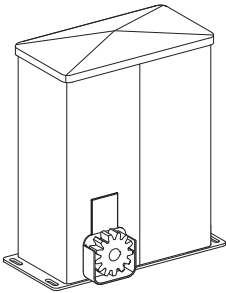
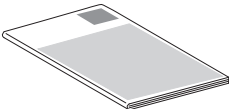
→ "3.1 Safety instructions for installation"




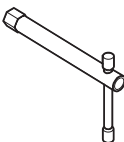


→ "4.1 Safety instructions for operation"


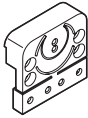



2. Product information

2.1 Scope of delivery - drive

Regional deviations are possible.

Item	Operator	
1		1x
2		1x

Item	Accessories	
3		4x
4		4x
5		4x
6		1x
7		1x
8		1x

Item	Reference point magnet	
9		1x
10		1x
11		1x
12		2x
13		1x

2.2 Technical data

Electrical data

Voltage rating, regional deviations are possible	V	230 / 260
Rated frequency	Hz	50 / 60
Power consumption in operation*	kW	0.4
Power consumption in standby*	W	ca. 3.2
Duty cycle	min	KB 5
Control voltage	V DC	24
Protection category of motor unit		IP 44
Protection class		I

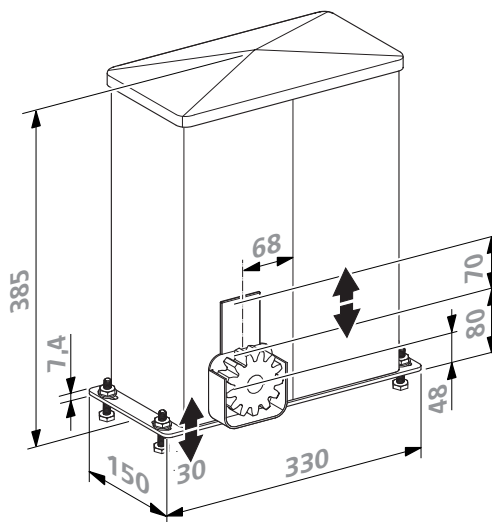
* without any additional equipment connected

Mechanical data

Max. push and pull force		
- Comfort 860 S	N	400
- Comfort 861 S	N	800
Max. travel speed	mm/s	200
Opening time, dependent on gate type	s	20 -25

Environmental data

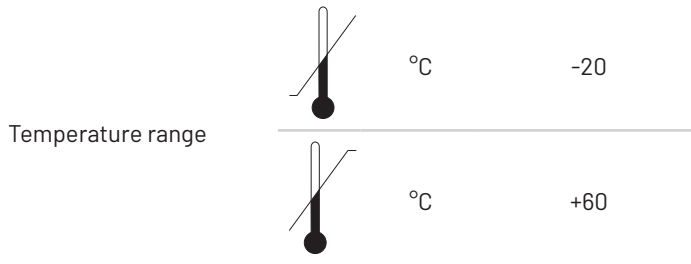
Dimensions of motor unit



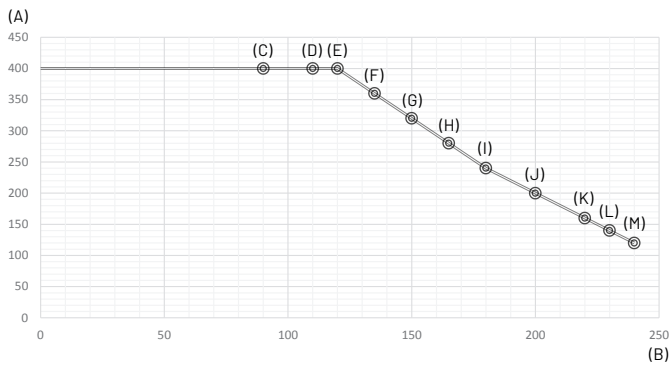
Weight

- Comfort 860 S	kg	12.5
- Comfort 861 S	kg	14.5
Sound pressure level	dB(A)	< 70

Environmental data



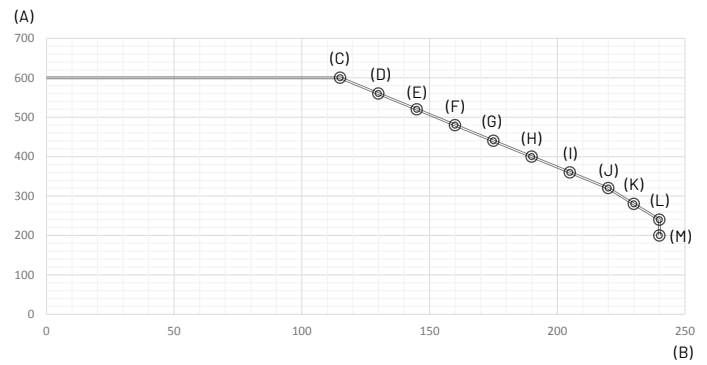
Comfort 860 S: Gate weight - gate speed



A Gate weight (kg)
B Gate speed (mm/sec.)

Comfort 860 S parameters	Gate speed (mm/sec.)	Gate weight (kg)
1 - 6 (C)	90	400
7 (D)	110	400
8 (E)	120	400
9 (F)	135	360
10 (G)	150	320
11 (H)	165	280
12 (I)	180	240
13 (J)	200	200
14 (K)	220	160
15 (L)	230	140
16 (M)	240	120

Comfort 861 S: Gate weight - gate speed



A Gate weight (kg)
B Gate speed (mm/sec.)

Comfort 861 S parameters	Gate speed (mm/sec.)	Gate weight (kg)
1 - 6 (C)	115	600
7 (D)	130	600
8 (E)	145	520
9 (F)	160	480
10 (G)	175	440
11 (H)	190	400
12 (I)	205	360
13 (J)	220	320
14 (K)	230	280
15 (L)	240	240
16 (M)	240	200

Use	Comfort	
	860 S	861 S
Sliding gates		
- Max. gate width	mm	8,000
- Max. gate weight	kg	400

2.3 Protection of closing edges

Weight of gate (kg)	Rubber profile		Speed	
	Main closing edge	Secondary closing edge	Normal run	Soft run
400	A	B	100 mm/s	100 mm/s
	C	C	140 mm/s	140 mm/s
	D	D	185 mm/s	100 mm/s
	E	E	245 mm/s	160 mm/s
800	C	C	-	-
	D	D	110 mm/s	110 mm/s
	D	E	115 mm/s	75 mm/s
	E	E	190 mm/s	95 mm/s

- A 1K-36H-Ind1 passive / art. no.: 78078
- B 1K-36H-Ind1 passive / art. no.: 78079
- C 2K-58H Ind 1B passive / art. no.: 63823
- D Protect - Contact 700 / art. no.: 104620
(only cut to length/assembled)
- E Protect - Contact 800 / art. no.: 104622
(only cut to length/assembled)

Cutting to length/assembly

for Protect-Contact 700:

Cutting to length/assembly of flow strip / art. no. 115079

Cutting to length/assembly of end strip / art. no. 115078

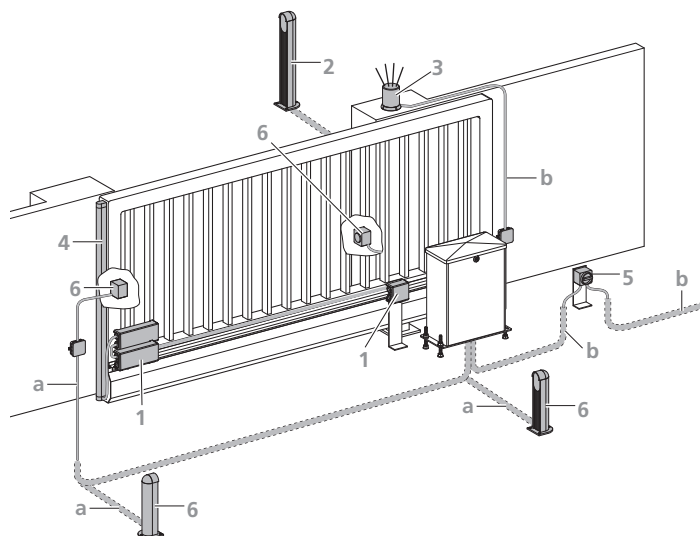
for Protect-Contact 800:

Cutting to length/assembly of flow strip / art. no. 115081

Cutting to length/assembly of end strip / art. no. 115080

2.4 Example application

2.4 / 1





This is just an example of a gate system and can vary depending on the type of gate and the associated equipment. The gate system shown comprises the following components:

- 1 Signal transmission system
- 2 Key switch / code button
- 3 Signal light
- 4 Closing edge safety device (CESD)
- 5 Main switch (mains isolator switch)
- 6 Photocell

Cable cross-sections:

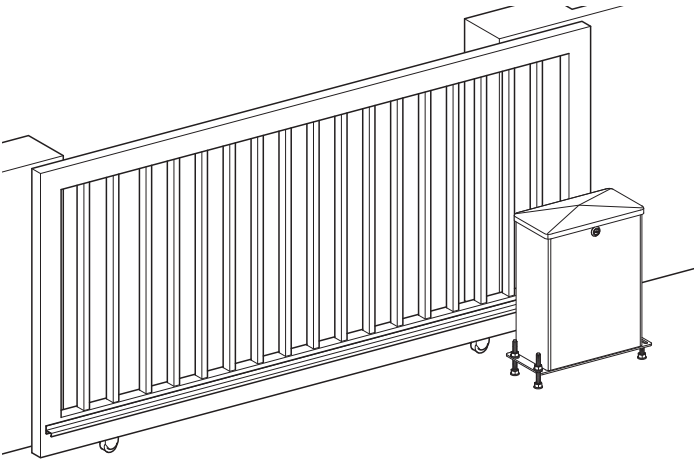
- a 2 x 0.4 mm²
- b 3 x 1.5 mm²

-  Further information on accessories can be found on the manufacturer's website.
-  For the installation and cabling of the gate sensors, control elements and safety equipment, the relevant installation instructions must be observed.

2.5 Gate version

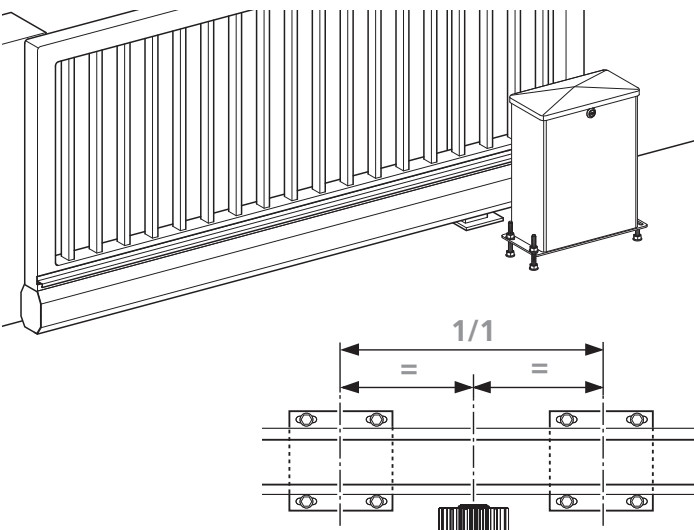
Gate version on rails

2.5 / 1



Cantilevered gate version

2.5 / 2



3. Installation

3.1 Safety instructions for installation

WARNING!

Danger due to a failure to observe the installation instructions!

This chapter contains important information for the safe assembly of the product.

- Read this chapter through carefully before assembly.
- Follow the safety instructions.
- Perform the assembly as described.

Assembly by qualified specialist personnel only.

→ "1.2.2 Specialist personnel"

Electrical work must be performed by qualified electricians exclusively.

→ "1.2.2 Specialist personnel"

- Before assembly, it is necessary to make sure that the power supply has been and remains disconnected. Only establish the power supply when prompted to do so in the corresponding assembly step.
- It is essential to adhere to the local protection regulations.
- It is essential that mains supply cables and control cables are laid separately. The controls voltage is 24 v DC.
- The gate must be in good mechanical condition:
 - The gate comes to a stop in any position.
 - The gate is easy to move.
 - The gate opens and closes correctly.
- All pulse transmitters and control devices (e. g. remote control buttons) must be installed within sight of the gate and at a safe distance from the moving parts of the gate. A minimum installation height of 1.5 metres must be observed.
- Only use fixing material that is suitable for the respective construction substrate.

3.2 Preparing for installation

Before commencing installation, the following works must be carried out without fail.

Supply package

- Check that all the parts are present.
- Check that all the necessary accessory parts for your installation situation are present.

Installation site

The installation site must meet the following conditions:

- There must be sufficient space to allow the motor unit and the toothed rack to be installed on the inside of the gate with the gate closed.
 - The motor unit must not extend into the gateway area.
 - For cantilevered gates, the motor unit must be mounted at the mid point between the carrier roller assemblies.
- "2.5 / 2"
- The foundations must be suitable for heavy-duty wall plugs.

- Check whether the existing foundations are suitable.
 - Check the routing of the supply cable.
Pay particular attention to the cable exit point where the motor unit is to be installed.
- "3.2 / 2"

Gate system

- Remove any components from the gate (such as ropes, chains, brackets, etc.) that are no longer needed.
 - All equipment that will no longer be required after the gate operator system has been installed must be taken out of service.
 - Ensure that a suitable mains connection and a mains isolator switch are available for your gate system.
The minimum cross-section of the earth cable must be $3 \times 1.5 \text{ mm}^2$.
 - Ensure that all cables are suitable for outdoor use with respect to UV resistance and cold resistance.
 - Check that the gate to be operated fulfils the following conditions:
 - When closed, the gate should extend at least 400 mm further than the clear width on the installation side.
 - The gate must have a mechanical gate stop in both directions.
 - The closing edges must be fitted with a flexible gate seal.
- "2.3 Protection of closing edges"
- Only install the motor unit with the gate in the closed position.

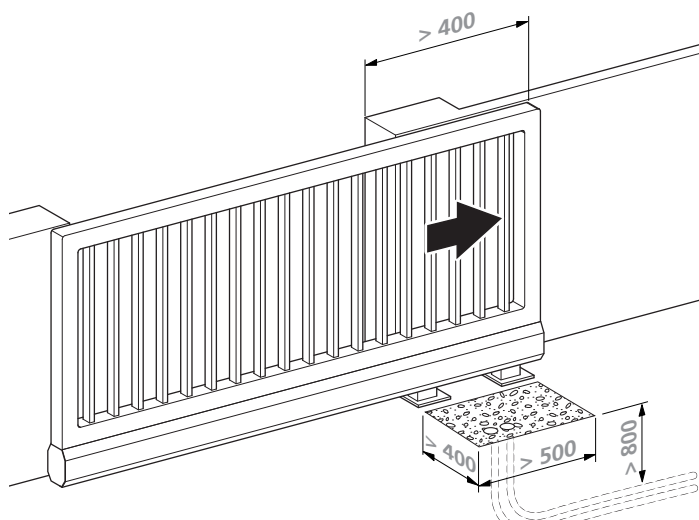
NOTICE

Material damage resulting from incorrect installation of the gate operator!

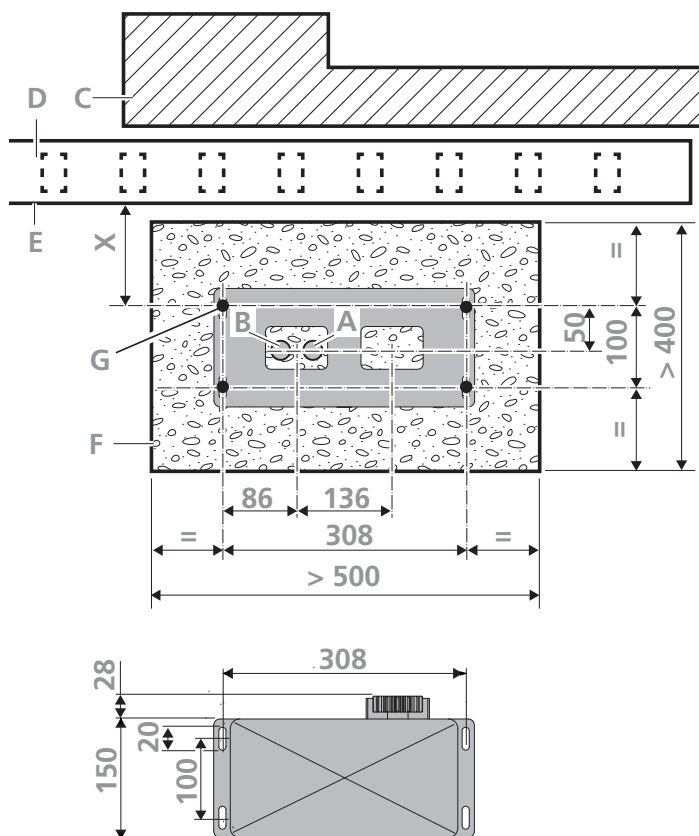
The following conditions must be met to prevent the gate and operator systems from being damaged:

- The gate itself must be straight and torsion-free, so that the distance between the motor unit and the gate never changes.
- The motor must be aligned to face the gate, so that the spur gear can mesh with the toothed rack whatever the position of the gate.
- The wall plugs for the floor console must be at least 80 mm from the edge of the foundations to prevent the foundations from breaking out.

3.2 / 1



3.2 / 2



- A Empty conduit for control cable
- B Empty conduit for electricity supply cable
- C Wall
- D Gate
- E Mounting surface for the toothed rack
- F Foundations
- G Front screw fixing point for the motor unit in the ground

- x Distance between the mounting surface (E) and the front screw fixing point for the motor unit in the ground (G).
Special 441: x = 60
Special 471: x = 73

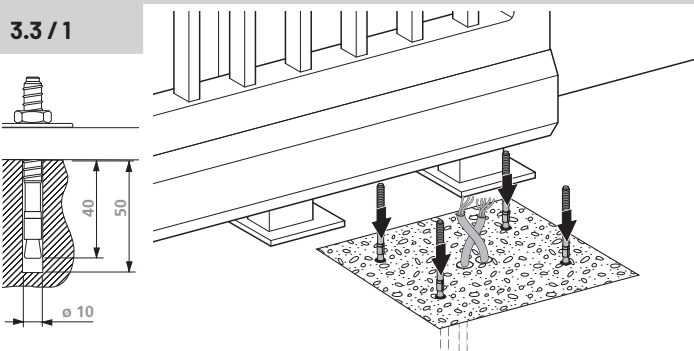
The installation height must comply with.
→ "3.4 Mounting the toothed rack"

When using an existing toothed rack, the dimension 64 applies from the front wall plug position (G) to the mid point of the toothed rack.

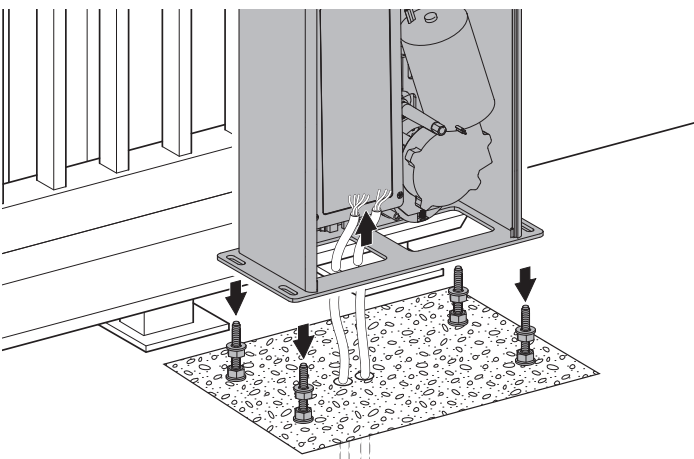
3.3 Installing the motor unit

- Before installing the motor unit, check whether the possible height adjustment of the motor unit is sufficient for the situation on site, or if the motor unit needs to be raised on a backplate.
- Align the motor unit parallel to the gate.
- "3.5 Adjusting the height of the motor unit"
- Drill the holes for the wall plugs as shown in the drill pattern provided.
- Route the control cable and the power supply cable to the installation position.
- "3.2 / 2"
- "4.2 Open the motor unit"

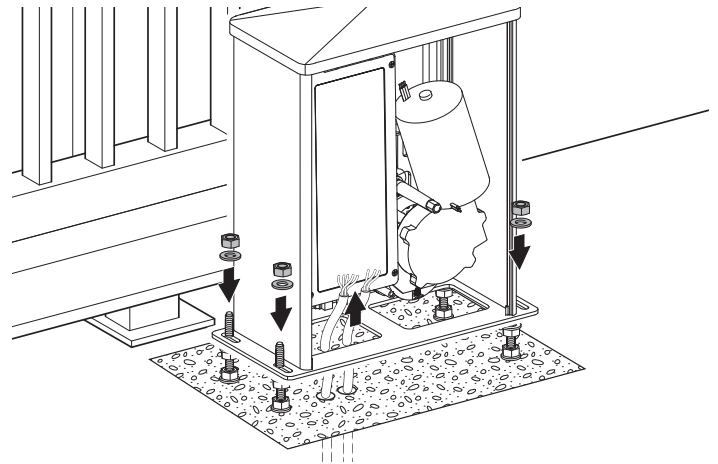
3.3 / 1



3.3 / 2



3.3 / 3



→ "4.3 Close the motor unit"

3.4 Mounting the toothed rack

If the toothed rack has already been mounted, this step is not necessary.

Conditions for mounting:

- The motor unit has been mounted.
 - The motor unit is unlocked (released).
- "4.5 Emergency operation"

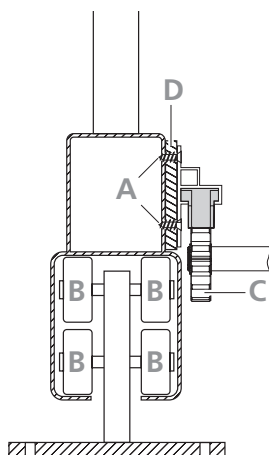
NOTICE

Material damage due to incorrect installation of the toothed rack!

An incorrectly fitted toothed rack can result in damage to the gate system and the gate operator. To prevent damage:

- Ensure that screws (A) do not obstruct the operation of the gate (e.g. by extending into the path of the gate rollers (B)).
- Ensure that the spur gear (C) is not touching the gate.
- The spur gear (C) should not be at its lowest possible position (it must be possible to lower the spur gear by 1 to 2 mm after the toothed rack assembly has been installed).

3.4 / 1



- Determine the installation position of the toothed rack on the gate.
 - Adjust the motor unit to the appropriate height.
- "3.5 Adjusting the height of the motor unit"

The toothed rack can be adapted to fit the gate with the aid of a backplate (D).

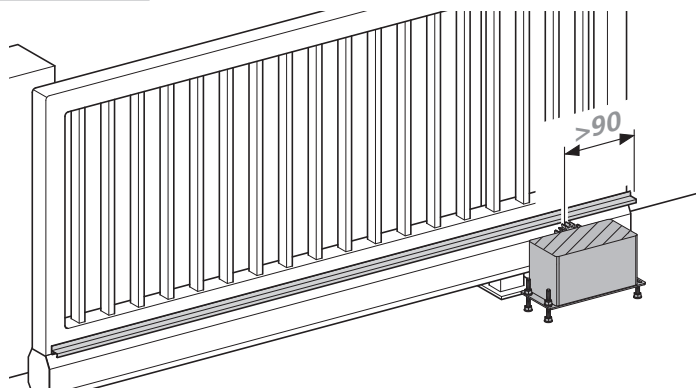
NOTICE

Malfunctions due to incorrect installation of the toothed rack!

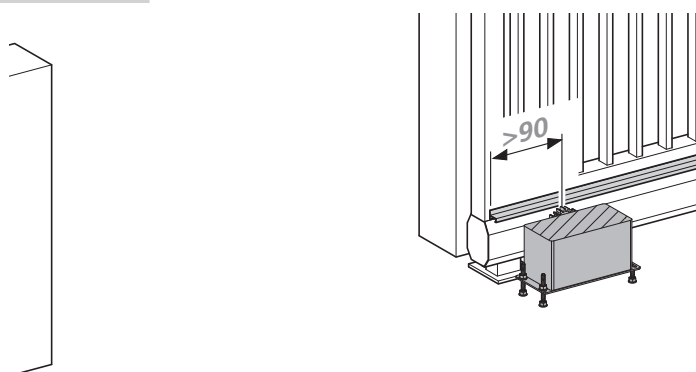
If the length of the toothed rack does not extend out, the gate system can become disengaged from the spur gear in the OPEN and CLOSED positions. It will no longer be possible to operate the gate with the motor.

- Ensure that the toothed rack projects at least 90 mm in the OPEN and CLOSED gate positions.

3.4 / 2



3.4 / 3



The toothed racks can be supplied in the following standard lengths:

- Special 441
- 2,000 mm
 - 4,000 mm

- Special 471
- 1,020 mm

The toothed racks can be cut to length or slotted together according to requirements.

NOTICE

Material damage due to incorrect installation of the toothed rack segments!

Toothed rack segments in the cover profile could be damaged when the profile is shortened.

To prevent damage to the toothed rack segments:

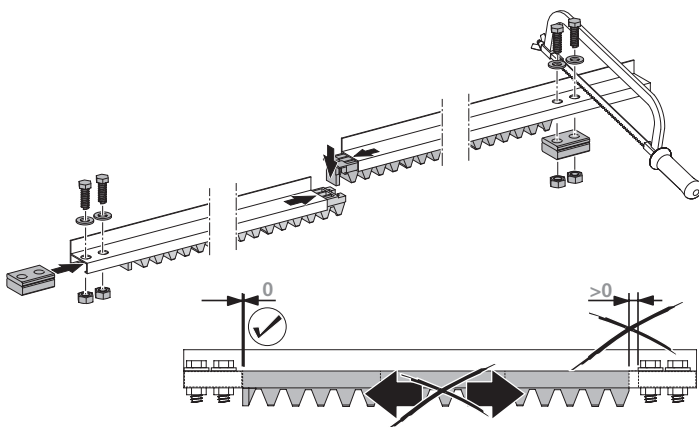
- Ensure that there are no toothed rack segments at the point to be shortened in the cover profile.

Movable toothed rack segments in the cover profile could be damaged if the gate starts moving.

- Ensure that the assembled segments in the cover profile are prevented from moving.

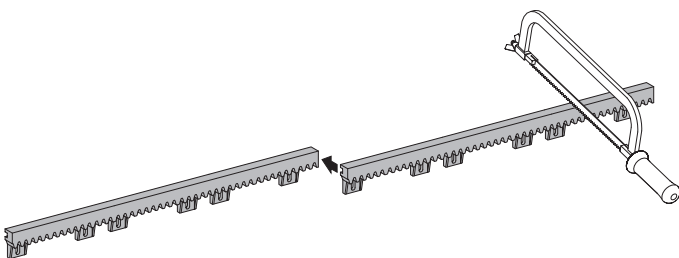
Special 441

3.4 / 4



Special 471

3.4 / 5



NOTICE

Material damage due to incorrect installation of the toothed rack segments!

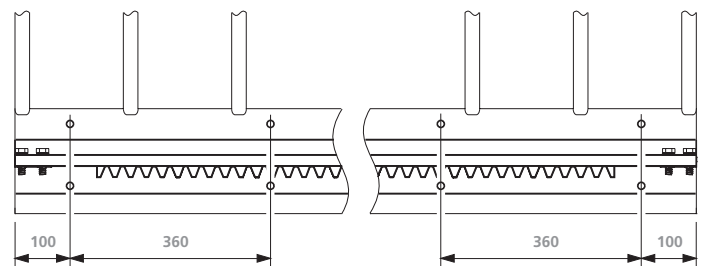
Projecting or insufficiently tightened screws could result in the toothed rack jamming during gate movement or being ripped out of the gate.

- Ensure that the pan head screws are tightened and the screw heads are prevented from colliding with the spur gear.

Screw fixing points on the gate

Special 441

3.4 / 6

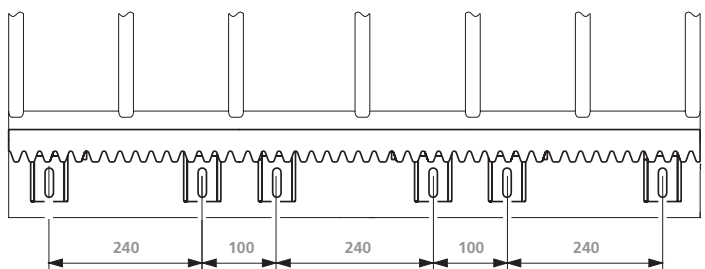


**Special 471
Important:**

The reference point magnet must be mounted before the rail is fitted.

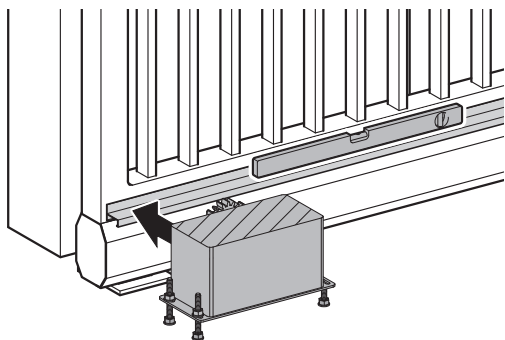
→ "3.6 Mounting the reference point magnet"

3.4 / 7



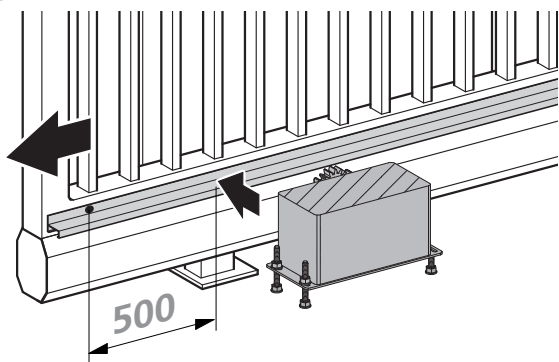
Installation

3.4 / 8

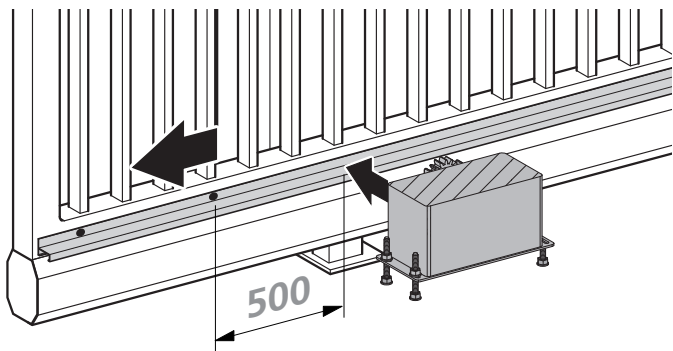


- Lay the toothed rack onto the spur gear so that the toothed rack meshes with the spur gear.
- Align the toothed rack horizontally.
- Clamp the toothed rack to the other side with a clamp to hold it in place.
- Screw the toothed rack to the gate at the first screw fixing point, in accordance with the relevant drill pattern.
- Remove the clamp.
- Keep the toothed rack pressed against the spur gear every time you close the gate a bit further.

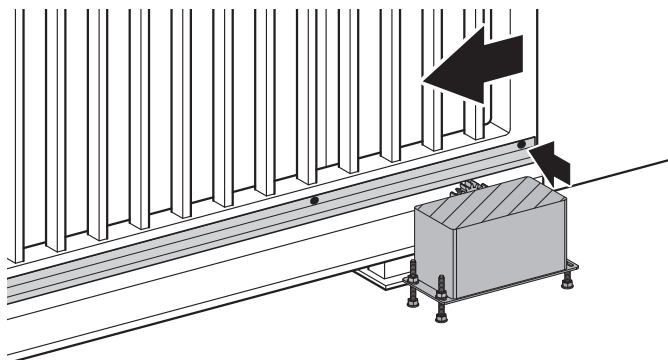
3.4 / 9



3.4 / 10



3.4 / 11



- Close the gate 500 mm further at a time.
- Screw the toothed rack to each closed gate section in turn, as shown on the relevant drill pattern.

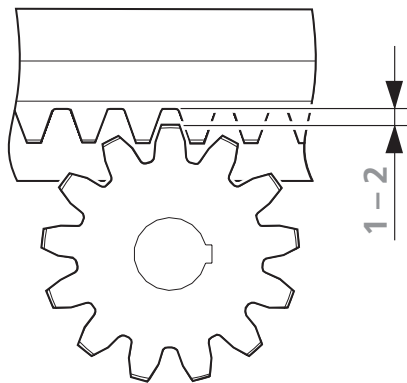
NOTICE

Malfunctions due to incorrect installation of the toothed rack!

If the adjustment between the toothed rack and the spur gear is too tight, the operator system could jam and become damaged during gate movement.

- Ensure that a clearance of 1 to 2 mm is maintained between the toothed rack and the spur gear.

3.4 / 12



- Lower the motor unit by 1 to 2 mm.
→ "3.5 Adjusting the height of the motor unit"

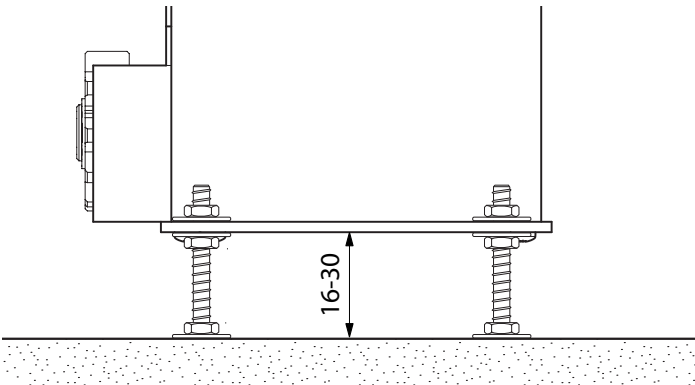
- ✓ A functional check must be carried out to ensure that the toothed rack is engaged with the spur gear along its entire length:
 - Ensure that the gate operator is unlocked (released).
→ "4.5 Emergency operation"
 - Move the gate slowly by hand into the OPEN and CLOSED end positions.

The spur gear must be propelled by the movement of the gate.

3.5 Adjusting the height of the motor unit

3.5.1 Adjusting the height of the housing

3.5.1/1



The height of the motor unit can be adjusted using the heavy-duty wall plugs.

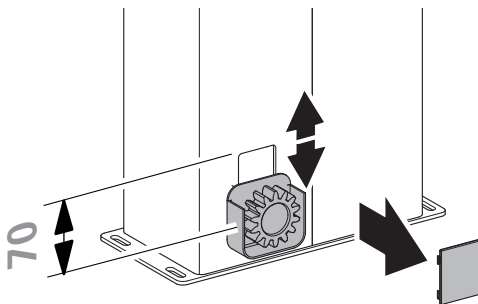
3.5.2 Adjusting the height of the spur gear

In order to adjust the height of the motor unit, first loosen the screws (A).

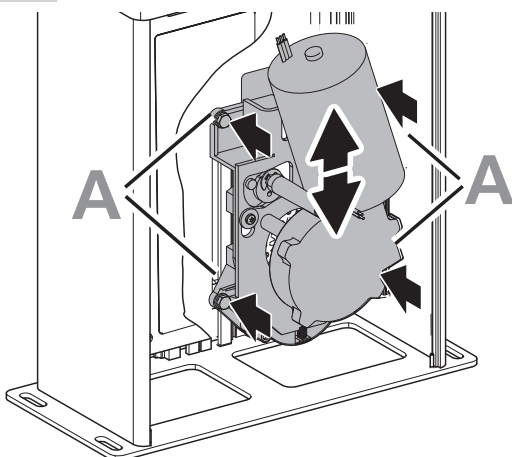
Once the height has been adjusted, the screws (A) must be retightened.

→ "4.2 Open the motor unit"

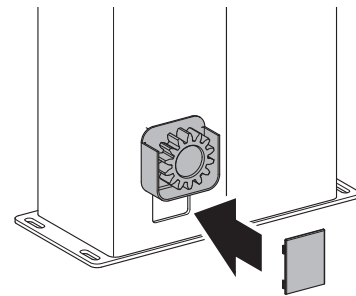
3.5.2/1



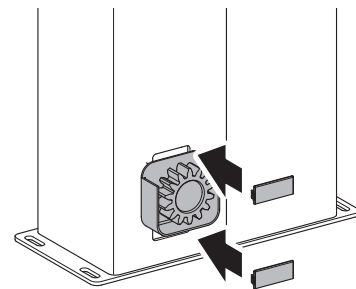
3.5.2/2



3.5.2/3



3.5.2/4



→ "4.3 Close the motor unit"

3.6 Mounting the reference point magnet

WARNING!

Danger of injury due to uncontrolled movement of the gate!

To avoid injury, the gate must have a mechanical end stop in both directions; otherwise it could spring out of line.

The operator system determines the extent of travel and the gate positions electronically. To do so, it requires a reference point on the gate or the toothed rack. A special reference point magnet is used as the reference point.

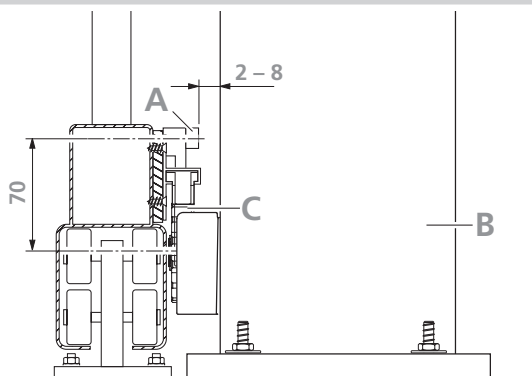
NOTICE

Malfunctions due to incorrect installation of the reference point magnet!

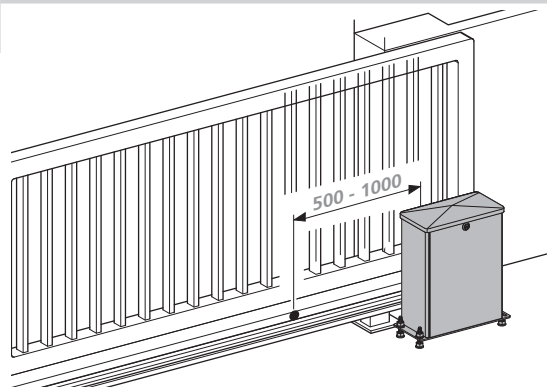
Measuring the gate operator reference point can be interfered with or prevented by the presence of old magnets and incorrect installation clearances. To prevent faults:

- Remove any existing magnets (e.g. in the case of retrofit measures with an existing toothed rack).
- Ensure that there is a distance between the reference point magnet (A) and the motor unit (B) of 2-8 mm.
- The distance between the centre of the magnet (A) and the centre of the spur gear (C) must be 70 mm.

3.6 / 1



3.6 / 2

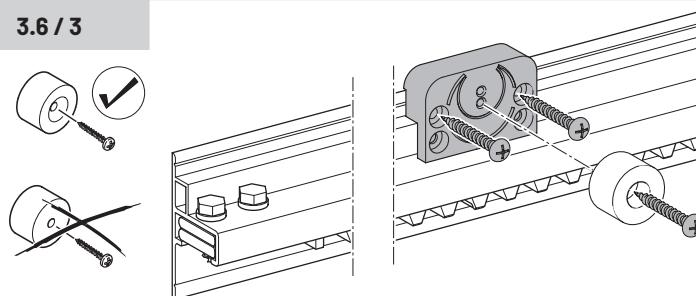


- Move the gate to the CLOSED position.
- Determine the position for the reference point magnet.

The reference point magnet is mounted differently depending on the type of toothed rack used.

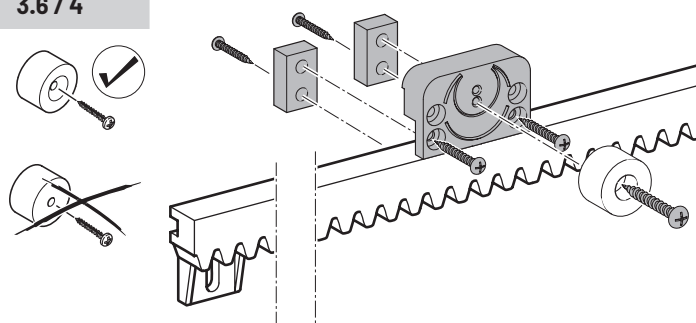
Special 441

3.6 / 3




Special 471

3.6 / 4



3.7 Connection to the control unit

-  Follow the instructions in the relevant documentation when connecting the operator to the control unit.

4. Operation

4.1 Safety instructions for operation

WARNING!

Danger due to a failure to observe the operating instructions!

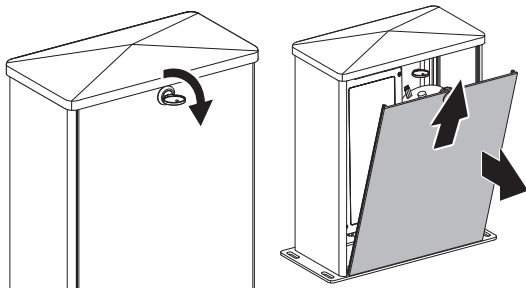
This chapter contains important information for the safe operation of the product.

- Read this chapter through carefully before operation.
- Follow the safety instructions.
- Use the product as described.

- The controller or hand-held transmitter shall only be operated when no persons or objects are inside the range of movement of the gate.
- The controller and hand-held transmitter must not be used by children or unauthorised persons.
- The hand-held transmitter must not be inadvertently actuated (e. g. in the trouser pocket).

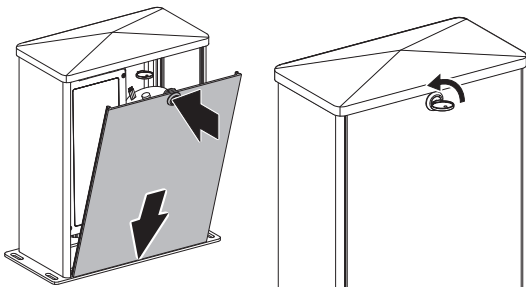
4.2 Open the motor unit

4.2 / 1




4.3 Close the motor unit

4.3 / 1



4.4 Hand transmitter

-  Follow the instructions in the relevant documentation for operation with a hand transmitter.

4.5 Emergency operation

NOTICE

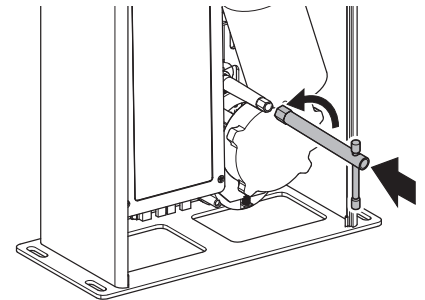
Malfunctions due to incorrect handling!

If the gate is not locked in the position in which it was released, the reference point monitoring will no longer work correctly.

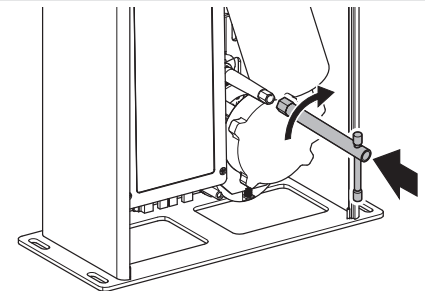
- Ensure that the gate is locked in the position in which it was released.

→ "4.2 Open the motor unit"

4.5 / 1



4.5 / 2



→ "4.3 Close the motor unit"

5. Care and cleaning

WARNING!

Risk of injury due to electric shock!

There is a risk of injury due to electric shock through contact with mains voltage.

- It is vital that you disconnect the drive system from the power supply before cleaning. Take measures to ensure that the power supply remains disconnected for the duration of the cleaning operation.

NOTICE

Damage resulting from incorrect operation!

When cleaning the operator system, never use: direct water jets, high pressure cleaners, acids or alkaline solutions.

- Clean the outside of the housing using a damp, soft cloth that does not shed fibres.

If particularly dirty, the housing can be cleaned using a mild detergent.

6. Maintenance

6.1 Maintenance work by the operator

Damage or wear to a door system must only be rectified by qualified professionals.

To ensure fault-free operation, the gate system must be inspected regularly and, if necessary, be repaired. Before starting work on the gate system, the operator system must always be disconnected from the power supply.

- Check once a month that the operator system reverses when the gate touches an obstacle. Place an obstacle in the path of the gate to check this.
- Check all the moving parts of the gate system and gate operator system.
- Check the gate system for signs of damage or wear and tear.
- Move the gate manually to check that the gate travels easily and smoothly.
- Check that the photocell functions properly.
- Check that the closing edge safety device functions properly.
- Check the power supply cable for signs of damage.
For safety reasons, if the power supply cable is damaged it must be replaced by the manufacturer or his customer service department, or by a similarly qualified person.

6.2 Maintenance work by qualified professionals

Power-operated windows, doors and gates must be inspected by qualified professionals whenever necessary, but at least once a year (written inspection records must be kept).

- Test the driving power with a force tester designed for this purpose.
- Replace any damaged or worn parts.

7. Disassembly

Disassembly by qualified specialist personnel only.
→ "1.2.2 Specialist personnel"

WARNING!

Risk of fatal injuries due to electric shocks!

Contact with live parts can lead to electric shock, burns and death.

- Ensure that the power supply is and remains disconnected throughout disassembly.

WARNING!

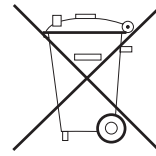
Possibility of serious injury due to incorrect dismantling!

- Comply with all applicable occupational health and safety regulations.

Disassembly is performed in reverse order to assembly.
→ "3. Installation"

8. Disposal


Disposal by qualified specialist personnel only.
→ "1.2.2 Specialist personnel"



Do not dispose of old equipment or batteries with the normal household waste!

- Dispose of old devices at a waste collection centre for electronic waste or via your specialist dealer.
- Dispose of old batteries in a battery recycling container or via a specialist dealer.
- Dispose of the packaging material in the special waste collection containers for paper, cardboard and plastic.

9. Rectifying faults

-  To rectify faults, follow the instructions in the control unit documentation.

10. Appendix

10.1 Declaration for the incorporation of a partly completed machine

(Declaration of Incorporation in line with EC Machinery Directive 2006/42/EC in accordance with Annex II, Part 1 B)

Manufacturer:
Marantec Antriebs und Steuerungstechnik GmbH & Co. KG,
Remser Brook 11, 33428 Marienfeld, Germany

The partly completed machine (product):
Comfort 860 S, 861 S Sliding Gate Operator
Revision status: R01

has been developed, designed and manufactured in accordance with the:

- EU Machinery Directive 2006/42/EC
- EU RoHS Directive 2011/65/EU
- EU Low Voltage Directive 2014/35/EU
- EU Electromagnetic Compatibility Directive 2014/30/EU
- Radio Equipment Directive (RED) 2014/53/EU

Applied and referenced standards and specifications:

- EN ISO 13849-1, PL "c", Cat. 2
Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design
- EN 60335-2-103
Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows.
- EN 61000-6-3/2
Electromagnetic compatibility - Emitted interference and immunity

The following requirements of EC Directive 2006/42/EC were complied with:

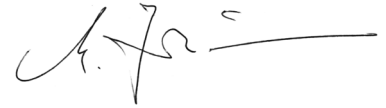
General principles, No. 1.1.2, 1.1.3, 1.1.5, 1.1.6, 1.2.1, 1.2.2, 1.2.3, 1.2.6, 1.3.1, 1.3.4, 1.3.7, 1.3.8, 1.3.9, 1.4.1, 1.4.3, 1.5.1, 1.5.4, 1.5.6, 1.5.8, 1.5.14, 1.7

Furthermore, we declare that the special technical documentation for this partly completed machine was prepared in accordance with Annex VII Part B and we undertake to supply these documents, in electronic form, to the national authorities in response to a duly reasoned request.

This partly completed machine is intended only for installation in a door system, in order to create a complete machine pursuant to Machinery Directive 2006/42/EC. The door system may not be set in operation until it has been ascertained that the complete system complies with the requirements of the above-mentioned EC directives.

This declaration shall no longer be valid if changes are made to the product without our authorisation.

Authorised agent for the preparation of the technical documentation:
Marantec Antriebs- und Steuerungstechnik GmbH & Co. KG,
Remser Brook 11, 33428 Marienfeld, Germany
Fon +49 (5247) 705-0



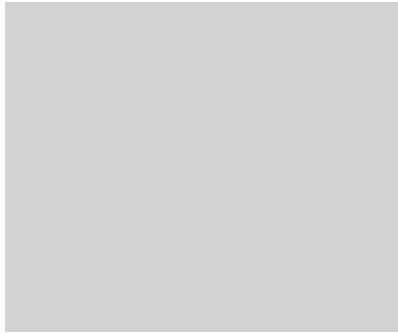
Marienfeld, 1 February 2016

M. Hörmann
Director



Identification plate, motor unit

Type A -----
Rev(B) -----
Art. No. (C) -----
Prod. No. (GB) -----



A B

----- / C



D

