NovoPort® Speed

WN 903013-04-6-50 10-2023

novoferm

Contents

1 General information

1.1 Contents and intended audience

These assembly and operating instructions describe the garage door drive of the NovoPort® Speed series (hereinafter referred to as "product"). The assembly and operating instructions are intended for technicians that install and maintain the product, and for consumers that use the product on a daily base.
These assembly and operating instructions only refer to the control via hand-held transmitter. Other devices work in the same way.

1.1.1 Illustrations

The illustrations in these assembly and operating instructions help you to better understand the descriptions and procedures. The illustrations only serve as examples and may deviate slightly from your product's actual appearance.

1.2 Pictograms and signal words

Important information in these assembly and operating instructions is marked with the following pictograms.

⚠ DANGER

DANGER

... indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING

... indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION

... indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

1.3 Hazard symbols

Danger!
This sign indicates an immediate risk of the death or injury of persons

Warning of electrical voltage!
This symbol indicates dangers to the life and health of persons due to electrical voltage when handling the system.

Crush hazard to limbs
This sign indicates hazardous situations with a limb crush hazard.

Crush hazard to the whole body!
This sign indicates hazardous situations with a crush hazard to the whole body.

1.4 Further notice and information symbols

NOTICE

NOTICE

... indicates important information (e.g. material damage), but does not indicate dangers.

Info!
Information marked with this symbol helps you to carry out your tasks quickly and safely.

Observe instructions
This symbol indicates that you must observe the assembly and operating instructions.

This symbol indicates that the garage door drive is designed for a cycle sequence of 3 cycles per hour.

1

Refers to a graphic of the corresponding assembly step on the A3 Instruction poster and to the “Connection diagram overview” chapter.

2 Safety

Observe the following safety information:

⚠ WARNING

Risk of injury when disregarding the safety information and instructions!

Failure to observe the safety information and instructions can cause an electric shock, fire and / or severe injuries.

- Following the safety information and directives given in these assembly and operating instructions helps to avoid personal injuries and material damage while working on and with the product.
- Read and comply with all safety information and instructions.

- All guidelines and instructions for the garage door drive (installation, operation and maintenance, etc.) must be followed.
- Only use the product for the intended use as mentioned in these instructions.
- Keep all safety information and instructions for future reference.
- Installation work may only be carried out by qualified technicians.
- Observe all applicable national regulations.
- Never make any modifications or changes to the product that have not been expressly approved by the manufacturer.
- Only use genuine spare parts of the manufacturer. Incorrect or faulty spare parts can cause damage, malfunctions or even a total failure of the product.
- This product can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance. Cleaning and maintenance shall not be made by children without supervision.
- Failure to comply with the safety information and directives given in these instructions or with the accident prevention regulations and general safety regulations relevant to the field of application shall exempt the manufacturer or its representative from all liability and shall render any damage claims null and void.

2.1 Intended use

The product is designed exclusively for opening and closing spring-balanced or weight-balanced garage doors. It may not be used for garage doors without spring-balancing or weight-balancing mechanisms.
The product is compatible with Novoferm products only.
Never make any modifications or changes to the product that have not been expressly approved by the manufacturer.
The product is suitable for domestic use only.

2.2 Foreseeable misuse

Any use other than described in chapter Intended use is regarded as reasonably foreseeable misuse. This includes but is not limited to:

- using the product as a drive for sliding door constructions
- using the product for garage doors without spring-balancing or weight-balancing mechanisms

Any damage or injury as a result of reasonably foreseeable misuse or of not following the assembly and operating instructions will render the manufacturer's liability null and void.

2.3 Personnel qualifications

Only personnel who are familiar with these assembly and operating instructions and the dangers associated with handling this product may use this product. The individual activities require different personnel qualifications listed in the following table.

Activities	**operating personnel**	**Skilled workers[a] with relevant training, e.g. industrial mechanic**	**Skilled electrician[b]**
Installation, assembly, commissioning		X	X
Electrical installation			X
Operation	X		
Cleaning	X		
Maintenance	X	X	X
Work on the electrical system (troubleshooting, repair & deinstallation)			X
Work on the mechanical system (troubleshooting & repair)		X	
Disposal	X	X	X

a. A skilled worker is a person who, due to his/her professional training, his knowledge and experience as well as due to his/her knowledge of the relevant regulations, is able to judge the work assigned to him/her as well as to identify possible hazards.
b. Electrically skilled personnel must be able to read and understand electric circuit diagrams, to put electrical systems into service and to maintain them, to wire control cabinets, to ensure the functionality of electrical components and to identify possible hazards from electrical and electronic systems.

2.4 Potential hazards associated with the product

The product has undergone a risk assessment. The product's design and construction, which are based on this risk assessment, correspond to the current state-of-the-art.
The product is safe to operate when used as intended. Nevertheless, residual risks remain.

⚠ DANGER

Hazardous voltage

Fatal electric shock when touching live parts. Observe the following safety rules when working on the electrical system:
1. Disconnect from the mains
2. Secure against inadvertent switch-on.
3. Verify de-energised state.

Work on the electrical system may only be performed by skilled electricians or instructed persons working under the direction and supervision of a skilled electrician in accordance with the electrotechnical rules and directives.

⚠ WARNING

Crush and impact hazard at the garage door!

During the force learning cycle, the drive automatically learns the normal mechanical force required to open and close the garage door. Force limits are deactivated until the conclusion of the learning cycle.
The door movement will not be stopped by an obstruction!

- Keep a sufficient distance from the entire path of motion of the garage door!
- Only interrupt the procedure in case of danger.

⚠ WARNING

Danger by optical radiation!

Sight can be severely restricted for a short time by looking directly at a LED. This can result in serious injuries.
Do not look directly at an LED.

3 Product description

3.1 General product overview

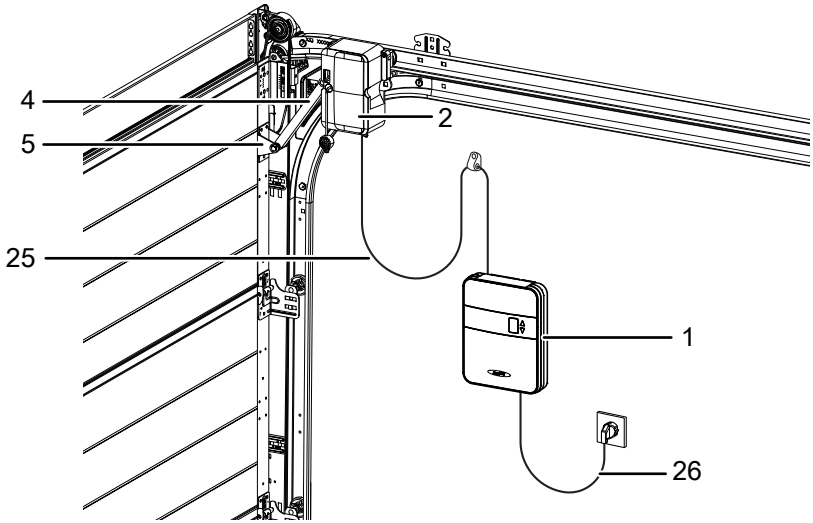


Fig. 1: Product overview

1. Control unit
2. Drive head
4. Lever arm
5. Door bracket
25. Coiled cable
26. Power cable

3.2 Control elements

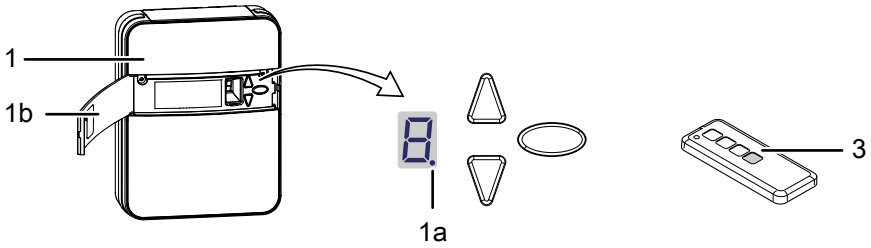


Fig. 2: Control elements

1. Control unit
1a. Point display
1b. Service flap
3. Hand-held transmitter

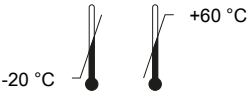
Digital display

Programming navigation button
Start button door OPEN/door CLOSE

Programming button

Programming navigation button

3.3 Technical data

General		
Control unit:	NovoPort® Speed	
Operating mode:	Pulsed operation, remote-controlled	
Max. door size:	17 m^2	
Max. door weight:	200 kg	
Rated load capacity:	195 N	
Max. load capacity:	650 N	
Electrical data		
Rated voltage:	230 V~ (alternating current)	
Frequency:	50 Hz	
Protection class:	I ⏚ (protective earth)	
Power consumption standby:	0.5 W	
Power consumption max. operation:	240 W	
Max. time until standby:	240 seconds	
24 V output (DC):	12 W	
230 V output (AC):	Max. 500 W	
Lighting LED:	6 W	
Cycles		
Max. cycles / hour:	3	
Max. cycles / day:	10	
Max. cycles total:	25000	
Surroundings		
Type of protection:	IP20, for dry rooms only	
Sound level:	< 70 dB(A)	
Temperature range:		
Safety according to EN 13849-1		
Input STOP-A:	Cat. 2 / PL = C	
Input STOP-B:	Cat. 2 / PL = C	
Radio module depending on the features		
TRX-433	f = 433.92 MHz, P_{erp} < 10 mW	Supported protocols: AES / Keeloq Classic
TRX-868	f = 868.3 MHz, P_{erp} < 25 mW	
E43-M	f = 433.92 MHz	
Manufacturer		
Company:	Novoferm tormatic GmbH	
Address:	Eisenhüttenweg 6 44145 Dortmund Germany	

3.4 Rating plate

The rating plate is situated on the inside of the service flap (1b).

3.5 Functioning of the integrated safety unit

If the garage door encounters an obstruction while it is closing, the drive stops and releases the obstruction by opening the door to the upper limit position, see chapter “Force learning cycle”.
If the door has nearly reached the end position, it will only open slightly to release the obstruction while still preventing persons from looking into the garage.
If the garage door encounters an obstruction during opening, the drive stops and moves back to release the obstruction.

4 Assembly and installation

4.1 Safety information for installation and assembly

- Installation work may only be carried out by qualified technicians.
- Read these installation instructions before you start installing the product.

4.2 Scope of delivery

NOTICE

Check the supplied screws and wall plugs to make sure that they are suitable for the structural condition on the installation site.

In the factory setting, the cover of the control unit is not pre-assembled. The scope of delivery is determined by the product configuration. It usually comprises the following:

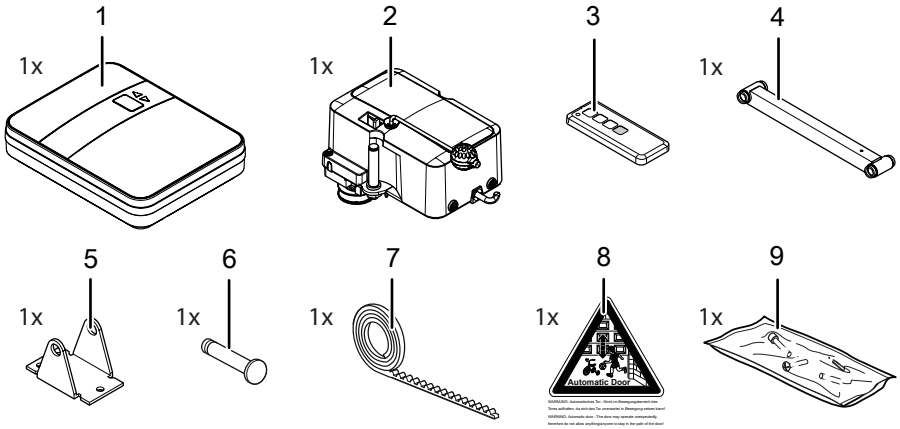


Fig. 3: Scope of delivery

1. Control unit
2. Drive head
3. Handheld transmitter (depending on the model)
4. Lever arm
5. Door bracket
6. Bolt
7. Toothed belt
8. Warning sign
9. Bag of screws

4.3 Preparing for installation

⚠ CAUTION

Crush hazard!

Some parts of the latching devices on the existing garage door can form pinch or shear points.

- When you convert the garage door to an automatic drive for the first time, the existing locking mechanisms have to be dismounted prior to the assembly.

- A socket must be installed on site for power supply. The supplied power cable is approx. 1 m long.
- Check the door for stability. If necessary, tighten the screws and nuts at the door.
- Check the door for correct movement. Lubricate shafts and bearings. Additionally, also check the pretension of the springs, and adjust if necessary.
- Dismantle any door latches (bolt plate and catches).
- For garages without a second entrance, an emergency release (accessory) is required.
- For garages with a wicket door, install the wicket door contact.

During assembly, it might be necessary to disengage and re-engage the drive at the motor head. This can be done without the need to disconnect the lever arm.

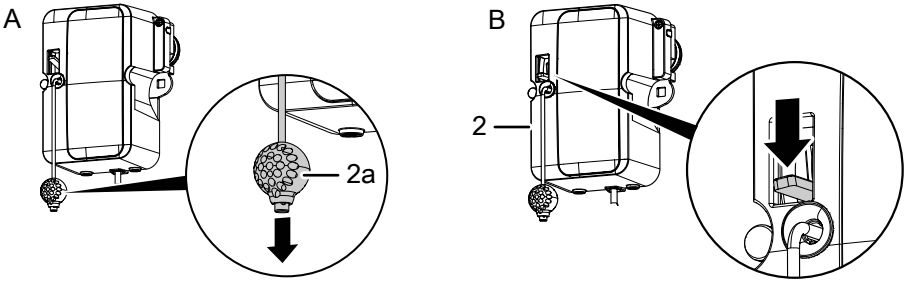


Fig. 4: Disengaging and engaging the drive

1. Pull the ball handle (2a) to be able to move the garage door by hand (see fig. A). The drive is now permanently disengaged (the number 8 appears on the display if the drive is switched on and a path has been taught). The motor head can be re-engaged at any point.
2. Push the lever on the motor head (2) down to re-engage the drive (see fig. B).

4.4 Mounting the garage door drive

Follow the instructions as shown in the A3 Instruction poster.

1. Choosing the installation side

Choose the installation side in accordance with the structural conditions on site. The standard installation side is on the right (as viewed from inside) and will be described in the following. If you wish to carry out the installation on the left-hand side, loosen he bolt at the motor head (2) using a wrench (SW 17) screw it back in on the other side (Fig. 13a to 13c). The following steps are identical to the standard installation side.

2. Fitting the toothed belt

Use the upper rail of the door for fitting the motor head (2). Spray the rail with silicone spray to achieve optimum running characteristics (Do not use oil-containing substances). Place the toothed belt (7) in the rail. The back of the toothed belt must point upward. On the door side, insert the end of the toothed belt into the tail end and fasten the toothed belt (7) by means of the screw (18) (Fig. 2a). Pull the ball handle (2a) to disengage the drive wheel (Fig. 2b). Feed the toothed belt (7) through the drive wheels of the motor head (2) as shown (Fig. 2c). Insert the motor head (2) with the drive wheels into the upper rail. (Fig. 2d). Determine the position for the toothed belt profile stop (24) by adding 50 cm to the specified construction height of the door. Insert the toothed belt profile stop (24) beneath the toothed belt (7) at the position determined, measured from the door wall (Fig. 2e). Upon completion of the whole assembly, the toothed belt profile stop (24) should maintain a distance to the motor head (2) of approx. 5 cm in the OPEN end position (Fig. 2f).

3. Rear toothed belt fastening

Feed the toothed belt (7) through the corner connection bracket and keep it taut (Fig. 3a). Put the sleeve halves (11) around the toothed belt (7) as shown in Fig. 3b. Attach the knurled nut (10) and tighten it by hand to tension the toothed belt (7). Pay attention not to twist the toothed belt (7) (Fig. 3c). If the toothed belt (7) protrudes, it can be shortened. (Fig. 3d).

4. Converting the upper track roller

On the drive side of the door, the outer ring of the top track roller must be disassembled. Dismount the upper track roller. Take the track roller into your hand. Place a screwdriver between rib and tooth of the track roller. Turn the track roller to the right to loosen the outer ring and to pull it off. Remove the extension ring of the track roller (Fig. 4a + 4b). Insert the track roller into the rail (Fig. 4c). Adjust the track roller according to Fig. 4d and screw it down. A detailed instruction for this step can also be found in the assembly and operating instructions of the door.

5. Fastening the door bracket

Place the door bracket (5) on the designated holes in the upper door leaf section and screw it down using the three screws (15) (Fig. 5).

6. Inserting the lever arm

Place the lever arm (4) on the bolt of the motor head (2) and secure the lever arm with a clip (23) (Fig. 6a). Hold the other side of the lever arm (4) between the door bracket (5) and insert the bolt (6) through the door bracket (5) and the lever arm (4). Secure the bolt (6) with a clip (23) (Fig. 6b).

7. Sliding block

Place the sliding block (19) on the rail profile, push it into the rear opening on the motor head (2) and fasten it with the screw (14) (Fig. 7).

8. Connection of the coiled cable

The cable terminals for the coiled cable (25) of the motor head (2) are located at the rear of the control unit (1). Insert the red wire into the terminal on the left side and the green wire on the right side (Fig. 8a). Insert the plug of the coiled cable (25) into the designated socket and allow it to engage (Fig. 8b). Afterwards insert the coiled cable (25) through the labyrinth out towards the top (Fig. 8c).

9. Fastening the control unit

Place the first screw (13) for the key hole in the centre of the rear wall at a distance of approx. 1 m to the door and 1.50 m from the ground. Do not screw in the screw (13) completely (a distance of approx. 3 mm between the screw head and the wall) (Fig. 9a). Place the control unit (1) onto the screw (13) in the wall with the key hole (Fig. 9b). Align the unit and mark the other mounting holes. Remove the control unit (1), drill the holes and insert one wall plug (20) in each case (Fig. 9c). Put the control unit (1) back on again and fasten it with the two screws (13) (Fig. 9d).

10. Mounting the wall clamp

Hold the coiled cable (25) up vertically as shown in Fig. 10. The maximum extension of the horizontally routed cable must not exceed three times the original length. Attach the cable clamp (22) at the bend. Hold the wall clamp (22) against the wall and mark its position. Drill the hole, insert the wall plug (20) and fasten the cable clamp (22) with the screw (12).

11. Low-mounted control unit

If, due to structural conditions, it was not possible for you to place the control unit (1) directly below the rail, the coiled cable (25) can be routed to the motor head using the supplied second cable clamp (22) and the punched tape (21). The extendible part of the coiled cable may be stretched by a maximum of factor 3, and the permanently installed part by a maximum of factor 7. If the coiled cable (25) is not long enough, use an extension set (accessory) (Fig. 11a to 11c).

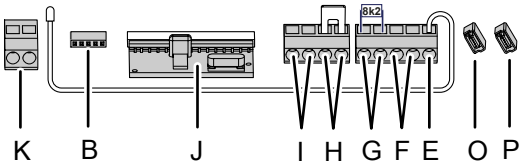
12. Wicket door switch

For garage doors with a wicket door, a wicket door contact (accessory) must be installed and connected to the motor head (2) (Fig. 12a). Loosen the screws of the cover at the motor head (2) and remove the cover (Fig 12b). Break out the tab on the side of the motor head housing with a pair of pliers (Fig. 12c). Route the connection cable along the lever arm (4) and attach it with cable ties. Make sure that the cable has sufficient freedom of movement (Fig. 12d). Connect the cable of the wicket door contact to the terminal block (Fig. 12e). Put the cover back on the housing and screw it down (Fig. 12f). After having installed the wicket door contact, remove the 8k2 resistor at terminal G in the control unit. See also Fig. 1 in chapter "Connection diagram overview".

4.5 Electrical connection of further components (accessory)

4.5.1 Connection diagram overview

1



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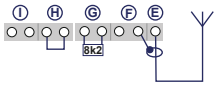

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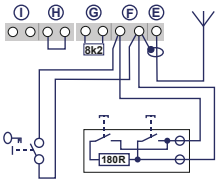

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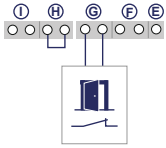

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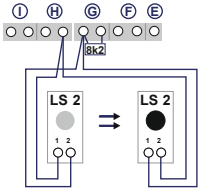

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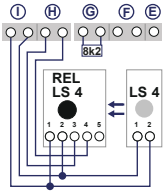

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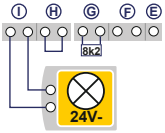

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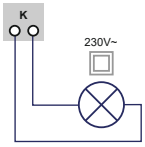

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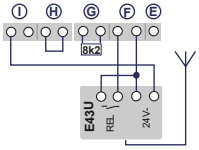

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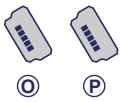

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Fig.	Terminal	Description
1		Overview of terminal assignment at the control unit
1	J	Plug base for radio receiver
2	E	Connector for antenna. When using an external antenna, the shield must be placed on the terminal that is adjacent on the left (F).
3	F	Input for external pulse generator (accessory, e.g. key switch or code keypad)
4	G	Input (STOP-A) for wicket door contact (accessory) or emergency stop. The drive is stopped or the start-up is suppressed via this input. (also see chapter Special settings, menu H: STOP-A settings)
5	G / H	Input for photoelectric sensor LS2 (for the use of other photoelectric sensors, please refer to the connection points of the photoelectric sensor manual)
6	I / H	Input (STOP B) 4-wire photoelectric sensor (e.g. LS4) This input activates the automatic reversal of the drive during closing.
7	I	Voltage supply 24 V DC max. 500 mA (switched) e.g. for 24 V signal light (accessory) **Caution!** Do not connect a push button!
8	K	Output 230 V for external, protectively insulated lighting or signal light (protection class II, max. 500 W) (accessory)
9	F / I	Voltage supply 24 V DC max. 500 mA (permanent) e.g. for an external radio receiver (accessory)
10	P / O	2x slot for mobility module or radio closing edge (accessory)
11	B	Slot for Bluetooth module (accessory)

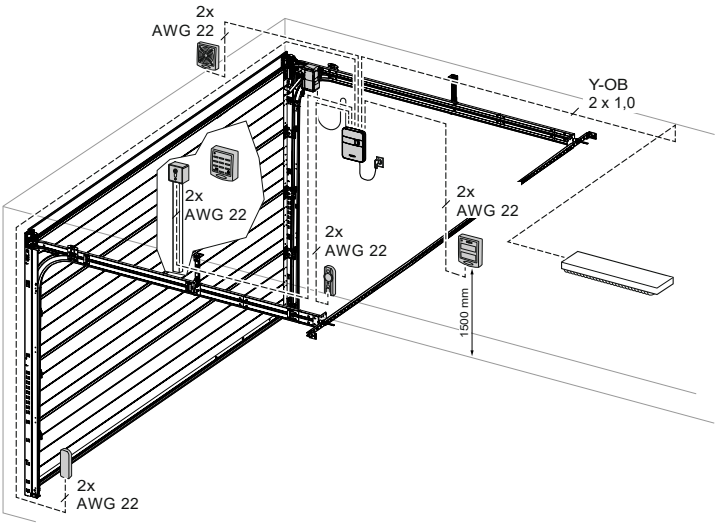


Fig. 5: Example installation of accessories

4.5.2 Pulse generator and external safety devices

In situations of increased requirements in terms of personal protection, we recommend, in addition to the internal power limitation of the drive, the installation of a 2-wire photoelectric sensor. The installation of a 4-wire photoelectric sensor serves purely for the protection of property. For further information on our range of accessories, please refer to our sales literature or consult your specialist dealer.

NOTICE

Before using the drive for the first time, test it to make sure that it is working properly and safely (see chapter Maintenance / Checks)

4.5.3 Routing the antenna

NOTICE

When using an external antenna, the shield must be placed on the adjacent terminal (F).

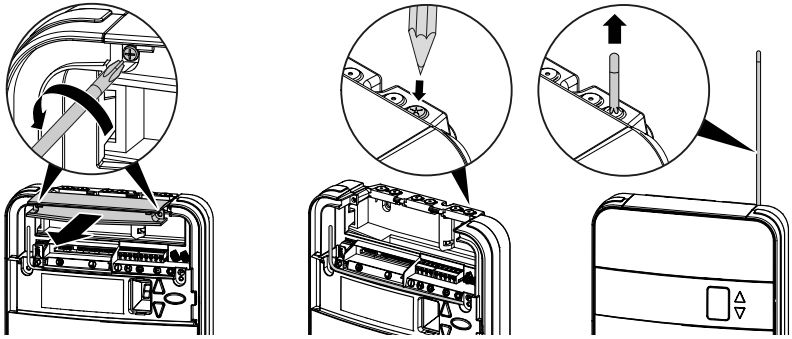


Fig. 6: Routing the antenna

1. Loosen the two screws of the top cover and slide it out.
2. Take the antenna out of the transport lock and push it up vertically through the feed-through. If necessary, punch through the feed-through with a suitable tool (e.g. a pointed / sharp pencil) beforehand.

4.6 Completing the assembly and installation

4.6.1 Attaching the housing cover

1. Insert the service flap (1b) into the control housing and hold it in the opened position.
2. Attach the bottom cover (1c) onto the control until the latter engages with the clamping lugs.

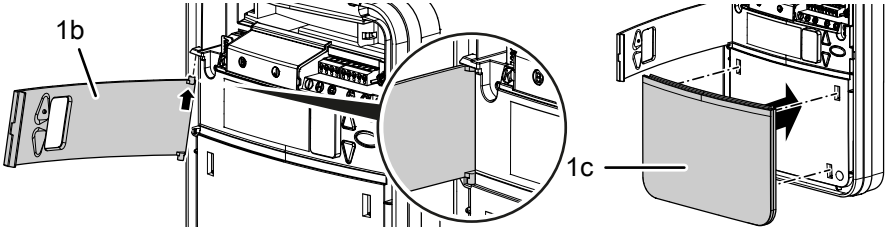


Fig. 7: Assembly of the service flap

3. Mount the top cover (1d) and screw it tight using the two screws (14).

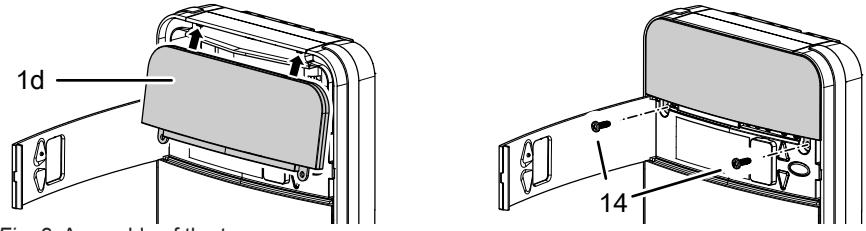


Fig. 8: Assembly of the top cover

4.6.2 Attaching the warning sticker

Place the sticker clearly visible on the inner surface of the garage door.

WARNING: Automatic door – Do not stand in the movement area of the door, because it may start unexpectedly!

4.7 TTZ guideline - Burglar resistance for garage doors

4.7.1 Enabling burglar resistance

To enable burglar resistance, proceed as follows:

1. Turn the ball handle (2a) so that the pull cord sits in the ball handle's groove.
2. Pull the ball handle (2a) off the pull cord as shown below.

⇨ Burglar resistance is now enabled.

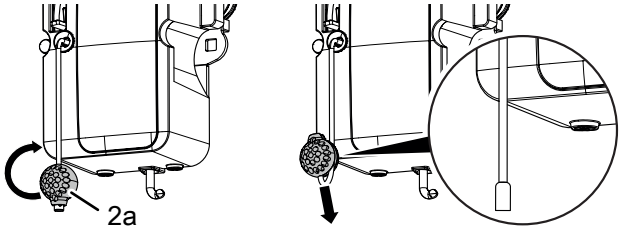


Fig. 9: Enabling burglar resistance

4.7.2 Disabling burglar resistance

To disable burglar resistance, proceed as follows:

1. Place the ball handle (2a) on the pull cord so that the pull cords sits in the groove.
2. Slide the ball handle (2a) down along the pull cord until the end of the pull cord locks into place in the ball handle (2a).

⇨ The burglar resistance is disabled.

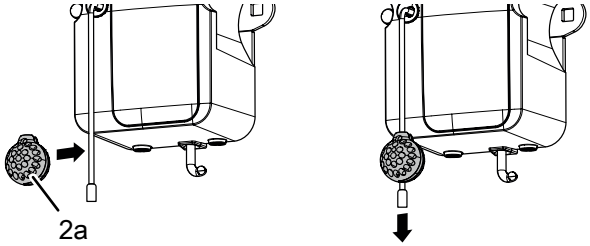


Fig. 10: Disabling burglar resistance

5 Programming the drive

5.1 Preparation

1. Make sure that the garage door is connected to the motor head.
2. Make sure that the antenna is correctly positioned (see chapter “Antennenverlegung”).
3. Make sure that you have all hand-held transmitters for this garage door at hand.
4. Open the service flap at the control unit.
5. Connect the power cable of the control unit to a mains socket.
   ⇨ The point display (1a) lights up.

5.2 Basic programming

Programming the control unit is menu-driven.

- Pressing the programming button  opens the menu. The digits of the display  indicate the menu step.
- After approx. 2 seconds, the number  on the display starts flashing and the setting can be changed using buttons  and  .
- By pressing the programming button  , the set value is stored and the program automatically skips to the next menu step. By pressing the programming button  repeatedly you can skip menu steps.
- To quit the menu, press the programming button  repeatedly until the number  is displayed again.
- Outside the menu, the  button can be used to generate a start pulse.

Information on further and/or special settings can be found in the chapters “Special settings” and “Advanced special settings“.

5.3 Program the hand-held transmitter

A maximum of 30 button commands can be taught via various hand-held transmitters.

5.3.1 Menu 1: Start function via the hand-held transmitter

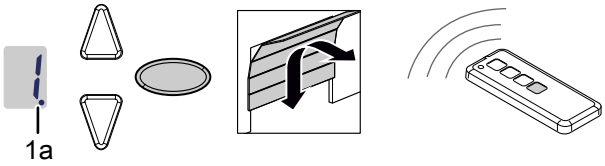


Fig. 11: Programming the start function for the hand-held transmitter

1. Press the programming button briefly once.
   ⇨ Menu 1 is displayed.
2. When the display flashes, press the hand-held transmitter button with which you will later start the drive and keep the button pressed until the point display (1a) on the display flashes 4 times.
3. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

5.3.2 Menu 2: Light function via the hand-held transmitter

You can program a button of the hand-held transmitter for the light function. When pressing this button, the work light (internal LED lighting on the control unit, 24 V lighting connected to terminal I and 230 V lighting connected to terminal K) is switched on or off. The lighting duration is 60 minutes. Then the work light goes out.

When using the TAM function, the 24 V output is not controlled by means of the work light.

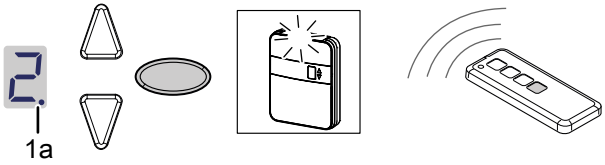


Fig. 12: Programming the light function for the hand-held transmitter

1. Press the programming button briefly twice.
   ⇨ Menu 2 is displayed.

2. Press the button on the hand-held transmitter by means of which the light is to be controlled and keep the button pressed until the point display (1a) on the display flashes 4 times.
3. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

5.3.3 Menu L: Ventilation function via the hand-held transmitter

The ventilation function makes it possible to ventilate the garage. The door position for the ventilation function depends on the design of the door and is approx. 10 cm travel path of the drive. The travel path of the ventilation position cannot be changed. The garage door can be closed at any time using the hand-held transmitter. The door closes automatically after approx. 60 minutes (time cannot be changed).

1. Press the programming button briefly three times.
   ⇨ Menu L is displayed.
2. Press the button on the hand-held transmitter to control the ventilation function and keep it pressed until the point display (1a) on the display flashes 4 times.
3. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

Please note that this function is not available in AR mode.

5.3.4 Menu P: Partial opening function via the hand-held transmitter

In this mode, the garage door remains open at an approximate width of 1 m.

1. Press the programming button briefly three times.
   ⇨ The value L is shown.
2. Press the programming button for approx. 3 seconds.
   ⇨ The value P is shown.
3. Press the button on the hand-held transmitter to control the partial opening function and keep it pressed until the point display (1a) on the display flashes 4 times.
4. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

Please note that this function is not available in AR mode.

5.3.5 Menu n: OPEN function via the hand-held transmitter

1. Press the programming button briefly three times.
   ⇨ The value L is shown.
2. Press the programming button for approx. 3 second.
   ⇨ The value P is shown.
3. Press the programming button briefly once.
   ⇨ The value n is shown.
4. Press the button on the hand-held transmitter to control the OPEN function until the point display (1a) on the display flashes 4 times.
5. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

5.3.6 Menu u: CLOSE function via the hand-held transmitter

1. Press the programming button briefly three times.
   ⇨ The value L is shown.
2. Press the programming button for approx. 3 second.
   ⇨ The value P is shown.
3. Press the programming button briefly twice.
   ⇨ The value u is shown.
4. Press the button on the hand-held transmitter to control the CLOSE function and keep it pressed until the point display (1a) on the display flashes 4 times.
5. As soon as the light goes out, you can set the next hand-held transmitter (see Step 1).

5.3.7 Deleting all hand transmitters programmed for the drive

All hand-held transmitters that have been programmed on the control unit can be deleted at once from the control unit

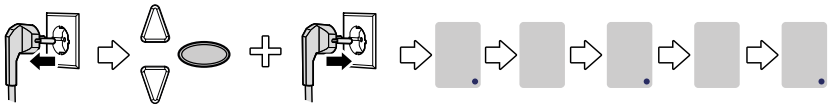


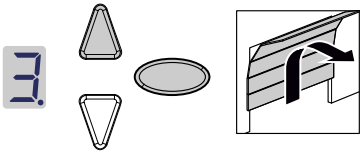
Fig. 13: Deleting all hand-held transmitters programmed for the drive

1. Pull out the mains plug of the control unit.
2. Press and hold the programming button .
3. Plug the mains plug into the mains socket while keeping the programming button pressed.
   ⇨ All hand-held transmitters programmed for the drive are deleted.

5.4 Menu 3 + Menu 4: Setting the end positions

NOTICE

The end position OPEN must be at least 5 cm away from the toothed belt profile stop.

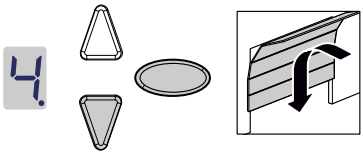


1. Keep the programming button pressed for approx. 3 seconds.
   ⇨ Menu 3 is displayed.
2. Press the button and check if the garage door moves to the OPEN position.

NOTICE

If the garage door moves in the wrong direction, initiate a change of direction by keeping the programming button pressed in for approximately 5 seconds until a chaser light appears.

3. Keep the button pressed until the garage door has reached the desired end position OPEN. If necessary, press the button to correct the position.
4. Once the garage door is in the desired end position OPEN, press the programming button .
   ⇨ Menu 4 is displayed.
5. When the display flashes, press and hold the button until the garage door has reached the desired end position CLOSE. If necessary, press the button to correct the position.



6. Once the garage door is in the desired end position CLOSE, press the programming button .
   ⇨ The number 0 is displayed.
7. Continue with the force learning cycle.

5.5 Force learning cycle

⚠ WARNING

Crush and impact hazard at the garage door!

During the force learning cycle, the drive automatically learns the normal mechanical force required to open and close the garage door. Force limits are deactivated until the conclusion of the learning cycle. The door movement will not be stopped by an obstruction!

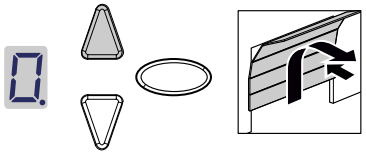
- Keep a sufficient distance from the entire path of motion of the garage door!

NOTICE

- During the force learning cycle the display shows the number 0 . Do not interrupt this procedure. After completing the force learning cycle, the number 0 on the display must disappear.
- Should the number 0 not disappear, repeat the procedure.
- The force learning cycle always starts from the end position CLOSE.
- During the force learning cycle, the LED light pulsates.
- If the learning cycle has not been completed after 5 force learning cycles, readjust the upper and lower position and check the door mechanics.

NOTICE

- We recommend selecting the according door type before carrying out the force learning cycle. To do so, please follow chapter "Menu 8: Door type setting".



1. Press the △ button or use the set hand-held transmitter. The garage door moves from the end position CLOSE to the end position OPEN.
2. Press the △ button again or use the set hand-held transmitter. The garage door moves from the end position OPEN to the end position CLOSE. After approximately 2 seconds, the 0 on the display disappears.

5.6 Checking the force limits

NOTICE

- After completing the force learning cycles, the force limits need to be checked.
- The drive must be checked once a month.

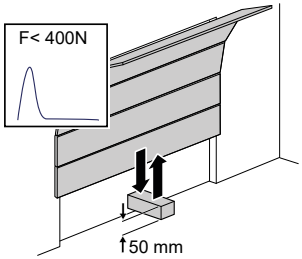


Fig. 14: Checking the force limits

1. Place a force gauge or a suitable obstruction (e.g. the drive's cardboard box) in the closing area of the door.
2. Close the garage door. The garage door moves to the end position CLOSE. When the garage door reaches the obstruction, it must stop and move back to the end position OPEN,
3. If the door can lift persons (e.g. openings greater than 50 mm or treads), the force limiting unit must also be checked in the opening direction: For additional load of the door with 20 kg of mass, the drive has to stop.

NOTICE

If the obstruction is not detected or if the force values are not complied with, the force limit needs to be set according to chapter “Menu 5 + Menu 6: Force limits for opening and closing / delete force learning cycle.

Every time the garage door springs are replaced, the force learning cycle must be carried out again (see chapter “Force learning cycle”).

5.7 Special settings

5.7.1 Opening the “Special settings” menu

1. To open the menu for special settings, keep the programming button pressed for approximately 3 seconds.
   ⇨ The number 3 is displayed.
2. Press the programming button again.
   ⇨ The number 4 is displayed.
3. Keep the programming button pressed again for approximately 3 seconds.
   ⇨ The first menu 5 of the special settings is displayed.

5.7.2 Menu 5 + Menu 6: Force limits for opening and closing / delete force learning cycle

Changing the force limit

⚠ WARNING

Crush hazard at the door!

If the force limits are set too high, there is a risk of personal injury.
- The force on the main closing edge must not exceed 400 N for a maximum of 750 ms!

We recommend selecting the according door type in menu 8 before carrying out the force learning cycle.

The default setting is 5.

The force limit settings for the opening and closing cycle can be adapted in the menu 5 and 6. Carry out the following steps to change the force limit:

1. Select the menu 5.
   ⇨ After approximately 2 seconds, the display flashes and the set value for the force limit for opening appears.
2. Adjust the setting using the buttons ▲ and ▼.
   ⇨ A high value reduces the sensitivity of the force limit.
   ⇨ A low value increases the sensitivity of the force limit.
3. Press the programming button. Menu 6 is displayed. After approximately 2 seconds, the display flashes and the set value for the force limit for closure appears.
4. Adjust the setting using the ▲ and ▼ buttons.
5. Press the programming button.
   ⇨ Menu 7 is displayed.

Deleting the force learning cycle

You can additionally delete the present force learning cycle in menu 5. The end positions are maintained in this process and do not have to be set again. Follow the steps below to delete the present force learning cycle:

1. Select menu 5.
   ⇨ After approximately 2 seconds, the display flashes and the set value for the force limit for opening appears.
2. Press the programming button for 3 seconds.
   ⇨ A chaser light appears and the force learning cycle is can be restarted.
   ⇨ To indicate that the drive is in force learning cycle mode, the 0 is shown on the display
3. Carry out a force learning cycle in accordance with the instructions given in the “Force learning cycle” chapter.

5.7.3 Menu 7: Adjusting the light phases

1. Select menu 7.
   ⇨ After approximately 2 seconds, the display flashes and the set value for light time appears.
2. Adjust the setting using the buttons .

Value	Light time in seconds
0	none
1	20
2	40
3*	60
4	90
5	120
6	150
7	180
8	210
9	setting personalised via Bluetooth APP
*default setting	

3. Press the programming button .
   ⇨ Menu 8 is displayed.

5.7.4 Menu 8: Door type setting

NOTICE

After the door type has been changed, the force learning cycle must be repeated.

By setting the door type, you optimise the movement of the door and the force limit.

1. Select menu 8.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.
2. Select the door type using the ▲ ▽ buttons.

Value	Door type
0*	Standard
1	Light door (≤100 kg)
2	Heavy door (>100 kg)
3	Side sectional door (maximum speed 70%)
4	Side sectional door (maximum speed 100%)
9	setting personalised via Bluetooth APP
*default setting	

3. Press the programming button ⬭.
   ⇨ Menu 9 is displayed.

5.7.5 Menu 9: Automatic closing

⚠ WARNING

Crush and impact hazard at the garage door!

Automatic closing of the door poses a risk of injury to persons.

- Install a photoelectric sensor in connection with the “Automatic closing” function.

NOTICE

Automatic closing is aborted if the lower end position during the closing cycle is not reached due to repeated interruption of the photoelectric sensor after 5 closing processes.

“Automatic closing” has the effect that the door closes again automatically after the upper end position has been reached, following an “Open time” and the “Warning time” (if this is set in menu C).

1. Select menu 9.
   ⇨ After approximately 2 seconds, the display flashes and shows the set value of the operating mode.

2. Adjust the setting using the buttons △ ▽.

Value	Automatic closing
0*	switched off - no automatic closing
1	switched on - a pulse always causes an opening of the door. When the open time and warning time have elapsed (setup menu A and C), the door closes automatically. An interruption of the photoelectric sensor during closing causes stop and reverse direction. Interruption during opening has no effect. A pulse during the open time or warning time causes the open time and warning time to recommence from the start. An interruption of the photoelectric sensor (LS2) during the warning time also causes the open time and warning time to recommence from the start. An interruption of the photoelectric sensor (LS2) during the open time has no impact.
2	switched on - function as in the case of default value 1. A pulse during open time or warning time makes the open time and warning time commence again from the start. An interruption of the photoelectric sensor (LS2) during the open time has the effect that the open time is terminated prematurely and the warning time is started. An interruption of the photoelectric sensor (LS2) during the warning time has the effect that the warning time commences from the start.
3	switched on - function as in the case of default value 1. A pulse during the open time has the effect that the open time is terminated prematurely and the warning time is started. A pulse during the warning time has the effect that the warning time recommences. An interruption of the photoelectric sensor (LS2) during open time has no impact. An interruption of the photoelectric sensor (LS2) during warning time has the effect that the warning time commences from the start.
*default setting	

3. Press the programming button ⬭.
   ⇨ Menu A is displayed.

5.7.6 Menu A: Open time

The menu A (open time) is only displayed when a value > 0 is set in the menu 9 (automatic closing).

When the door reaches the upper limit position when opening, the time for which the door remains in the upper limit position is defined by the “open time”. After the time set has elapsed, the “Automatic closing“ function is executed.

1. Select menu A.
   ⇨ After approximately 2 seconds, the display flashes and shows the set value of the operating mode.
2. Set the desired open time using the buttons △ ▽.

Value	Open time in seconds	Value	Open time in seconds
0*	10	5	150
1	30	6	180
2	60	7	210
3	90	8	240
4	120	9	setting personalised via Bluetooth APP
*default setting			

3. Press the programming button ⬭.
   ⇨ Menu C is displayed.

5.7.7 Menu C: Warning time

The warning time specifies the time before the drive starts moving after a start signal. In addition, the LED light flashes during this time. Furthermore, the output voltage 24 V is switched on if the TAM function is not set in menu U (output 24 V).

If a safety device (e.g. a photoelectric sensor) is activated during the warning time, the start process is aborted.

1. Select the menu C.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.

2. Adjust the setting using the buttons △ ▽.

Value	Warning time in seconds	Effective in direction of movement
0*	0	
1	3	OPEN and CLOSE
2	10	OPEN and CLOSE
3	3	OPEN
4	10	OPEN
5	3	CLOSE
6	10	CLOSE
9	setting personalised via Bluetooth APP	
*default setting		

3. Press the programming button ⬭.
   ⇨ Menu H is displayed.

5.7.8 Menu H: STOP-A settings (wicket door contact)

1. Select menu H.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.
2. Adjust the setting using the buttons △ ▽.

Value	Description
0*	Connection of an ENS-S 8200 to terminal G
1	Connection to a jumper or ENS-S 1000 to terminal G
*default setting	

3. Press the programming button ⬭.
   ⇨ The number 0 is displayed.

5.8 Advanced special settings

5.8.1 Opening the “Advanced special settings” menu

1. To open the menu for advanced special settings, keep the programming button pressed for approximately 3 seconds.
   ⇨ The number 3 is displayed.
2. Press the programming button again.
   ⇨ The number 4 is displayed.
3. Keep the programming button pressed again for approximately 3 seconds.
   ⇨ The number 5 is displayed.
4. Press the programming button repeatedly until the letter H is shown.
5. Keep the programming button pressed again for approximately 3 seconds.
   ⇨ The first menu U of the advanced special settings is displayed.

5.8.2 Menu U: Output 24 V

The setting in this menu indicates the time for which the output 24 V remains switched on after a door drive cycle.

1. Select the menu U.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.
2. Adjust the setting using the buttons △ ▽.

Value	Switch-on time 24 V in seconds
0*	0
1	20
2	40
3	60
4	90
5	120
6	150
7	180
8	TAM (“door open message”): 24 V are switched on as long as the door is not closed
9	setting personalised via Bluetooth APP
*default setting	

3. Press the programming button.
   ⇨ Menu d is displayed.

5.8.3 Menu d: Output 230 V

This menu specifies the time for which the output 230 V remains switched on after a drive cycle.

1. Select the menu d.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.
2. Adjust the setting using the buttons △ ▽.

Value	Switch-on time 230 V in seconds
0	0
1	20
2	40
3*	60
4	90
5	120
6	150
7	180
8	210
9	setting personalised via Bluetooth APP
*default setting	

3. Press the programming button ⬭.
   ⇨ Menu F is displayed.

5.8.4 Menu F: Radio closing edge

You can connect an external radio closing edge (accessory). This menu serves to set the properties of the external radio closing edge and the wicket door monitoring function.

1. Select the menu F.
   ⇨ After approximately 2 seconds, the display flashes and the set value appears.
2. Adjust the setting using the buttons △ ▽.

Value	Safety input 1 (closing edge)	Safety input 2 (wicket door)
0*	No radio closing edge function	
1	Optical closing edge safety device	Connection of an ENS-S 8200
2	Optical closing edge safety device	Jumper
3	8k2 closing edge safety device	Connection of an ENS-S 8200
4	8k2 closing edge safety device	Jumper
*default setting		

3. Press the programming button ⬭.
   ⇨ The number 0 is displayed.

5.9 Restoring the factory settings

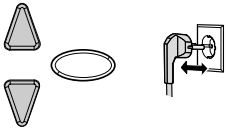


Fig. 15: Factory settings

1. Press the ▲ and ▼ buttons at the same time.
2. Press both buttons for approximately 3 seconds while pulling out the mains plug from the mains socket and while reinserting the mains plug again.

5.10 Cycle counter

The cycle counter stores the number of OPEN/CLOSE actions powered by the drive. To read the meter, hold the button ▼ at the control unit pressed for 3 seconds until you see a figure.
The digital display shows the numbers starting from the highest to the lowest decimal place consecutively. At the end of the digit sequence, a horizontal line appears on the display, for example: 3456 movements, 3 4 5 6 –.

6 Initial operation

In order to ensure safe and trouble-free functioning of the door drive it is essential that all parts have been mounted in accordance with the assembly instructions. After having completed the assembly and programming check the garage door drive as well as the garage door for safe and proper functioning by executing all operating functions. If it was possible to execute all operating functions perfectly and all safety devices are working properly, the garage door drive is ready for operation.
Proceed as follows to check a possibly available wicket door contact:
Open the wicket door when the drive is switched on. The display on the control unit shows the number 1.
Furthermore, observe the following commissioning instructions:

- The installer must fill out the commissioning report (see “Check lists” chapter) completely and give it to the operating company / owner before the operating company / owner puts the system into service. This recommendation includes manually operated doors.
- The operating company / owner is obliged to store the commissioning report as well as the proof of inspection and maintenance of the door system (see “Check lists” chapter) together with the documentation for the garage door drive for the entire service life of the system.
- Modifications or changes to the garage door drive must be permitted by the manufacturer. Alterations to the garage door drive (in as far as permitted) must also be documented.

7 Operation

7.1 Safety instructions for operation

Observe the following safety information for operation:

- All operators must be instructed on the handling and be familiar with the applicable safety regulations.
- Comply with the accident prevention regulations and general safety regulations relevant to the field of application.
- Keep hand-held transmitters out of reach of children.

⚠ WARNING

Impact and crush hazard due to the door movement!

The opening and closing processes must be monitored.

- The garage door must be visible from the place of operation.
- Make sure that no persons or objects are in the travel path of the garage door.

7.2 Opening or closing the garage door (in normal operation mode)

The garage door can be operated by different devices (hand-held transmitter, key switch etc.). These assembly and operating instructions only refer to the control via hand-held transmitter. Other devices work in the same way.

1. Briefly press the button on the hand-held transmitter once. Depending on the current position, the garage door moves to the OPEN or CLOSE position.
2. If needed, briefly press the button on the hand-held transmitter to stop the movement of the garage door.
3. If needed, press the button on the hand-held transmitter once again to make the garage door move in the other direction.

A button on the hand-held transmitter can be set with the “Work light” function. By using the hand-held transmitter, the light will be turned on and turned off, independently of a door cycle. After 60 minutes the light will be turned off.

7.3 Manually opening or closing the garage door

⚠ WARNING

Impact and crush hazard due to uncontrolled door movement!

When moving the door by hand (with the drive decoupled), it can move in an uncontrolled fashion, especially when the setting is incorrect or the door springs are defective.

- Contact the responsible supplier/manufacturer if you see that the door is not balanced correctly.

NOTICE

In the process of installing the system, locking elements of the garage door have been dismantled. They should be reinstalled if the garage door is to be operated manually over a longer period of time. This way the garage door can be locked when closed.

NOTICE

The ball handle must be located 1.80 m max. above the floor.

During adjustments to the garage door, or during power failure, the garage door can be manually opened or closed.

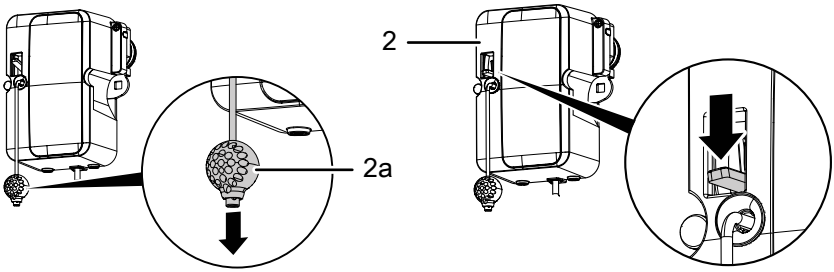


Fig. 16: Disengaging and engaging the drive

Pull the ball handle (2a) to permanently disengage the drive.

The value "8" is shown on the display of the control unit. The garage door can now be moved manually.

Push the lever on the motor head (2) down to engage the drive again in any position.

7.4 Moving the garage door specifically into the OPEN or CLOSE position (further operating modes)

7.4.1 Moving the garage door into the OPEN position

There is the possibility of moving the door specifically into the direction of the OPEN position by means of a hand-held transmitter or the APP.

- When the door is in the lower end position or in an intermediate position, an OPEN command makes the door move into the direction of the upper end position.
- When the door is in the upper end position or moving into the upper end position, an OPEN command has no impact.
- When the door is moving into the direction of the lower end position, an OPEN command makes the door stop briefly to move back to the OPEN direction.

7.4.2 Moving the garage door into the CLOSE position

There is the possibility of moving the door specifically into the direction of the CLOSE position by means of a hand-held transmitter or the APP.

- When the door is in the upper end position or in an intermediate position, a CLOSE command makes the door move into the direction of the lower end position.
- When the door is in the lower end position or moving into the lower end position, a CLOSE command has no impact.
- When the door is moving into the direction of the upper end position, a CLOSE command makes the door stop.

7.5 Determining the radio module type

Provided a radio module is installed, you can determine the used radio frequency as follows:

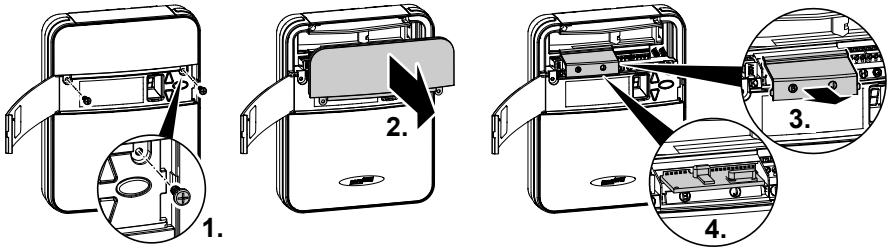


Fig. 17: Opening the control unit cover and determining the radio module type

1. Disconnect the control unit from the mains by pulling out the mains plug.
2. Open the service flap at the control unit and loosen the two screws behind it.
3. Remove the upper cover.
4. Also remove the cover for the radio module.
5. Determine the radio frequency as specified on the type designation on the label and the corresponding data in the chapter “Technical data”.

Fig. 18: Label with type designation of radio module

6. Put the upper cover back on the control unit and screw it down.

8 Errors and faults

8.1 Troubleshooting

⚠ WARNING

Impact and crush hazard due to uncontrolled door movement!

During troubleshooting, when the drive is decoupled or if the door springs are damaged, the door can carry out uncontrolled movements.

- Always pull out the mains plug before working on the drive!
- Secure the door against uncontrolled movements.

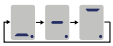
Malfunction	Possible causes	Remedy
Door does not fully open / close.	Door mechanics have changed.	Have the door checked.
	Closing / opening force is set too low.	Correct the force settings, see chapter "Menu 5 + 6".
	End position is set incorrectly.	Have the end position reset.
After closing, the door opens again slightly.	Door blocks just before reaching the closed position.	Remove the obstruction.
	End position is set incorrectly.	Have the end position CLOSE reset.
Drive does not move although the motor is running.	Drive is disengaged.	Re-engage the drive, see chapter "Manually opening or closing the garage door".
Door does not respond to hand-held transmitter pulses, but to pulses from push buttons or other pulse generators.	Hand-held transmitter battery is empty.	Replace the hand-held transmitter battery.
	Antenna is missing or misaligned.	Plug in / align the antenna.
	No hand-held transmitter programmed.	Program the hand-held transmitter, see "menu 1".
Door responds neither to hand-held transmitter pulses nor to other pulse generators.	See diagnostic display.	See diagnostic display.
Insufficient range of hand-held transmitter.	Hand-held transmitter battery is empty.	Replace the hand-held transmitter battery.
	Antenna is missing or misaligned.	Plug in / align the antenna.
	On-site shielding of reception signal.	Connect the external antenna (accessory).
Toothed belt or drive are noisy.	Toothed belt is dirty.	Clean the toothed belt. Spray with silicone spray (Do not use oil-containing substances).
	Toothed belt is tensioned too tightly.	Relieve the toothed belt of tension.

NOTICE

Defect on the power supply line

If the power supply line of this product is damaged, it must be replaced by the manufacturer or its customer service or a similarly qualified person in order to prevent risks.

8.2 Diagnostic display

Value	State	Diagnosis/remedy
	Garage door opens.	
	Garage door closes.	
	Garage door has reached end position CLOSE.	
	Garage door has reached end position OPEN.	
	Garage door is between end positions OPEN and CLOSE.	
	Garage door is in ventilation position.	
	Display shows a "0" during the next opening and closing cycle and then goes out.	The drive is carrying out a learning cycle for the force limit. Caution: During this travel cycle the drive does not monitor the force.
	Display continues to show a "0".	The force learning cycle has not been completed and must be repeated. Possibly, the resistance in one of the end positions is too high. Reset the end positions.
	Door does not open or close.	Interruption at connection STOP-A or activation of the external safety device (e.g. wicket door).
	Door does not close.	Interruption at connection STOP-B or activation of the external safety device (e.g. photoelectric sensor).
	Door setting and learning cycle have not been completed correctly.	You must use menus 3 and 4 to correct the door settings and then complete the force learning cycle.
	Permanent signal at the input of connection terminal F .	Start signal is not detected, or continuous pulse (e.g. button jammed).
	The distance set is too long.	Set a new distance in menus 3 and 4.
	Closing edge safety device has tripped.	Check the closing edge safety device and the wiring on the radio closing edge. Check the settings in menu F.
	The drive path set is too short.	Set the drive path in menus 3 and 4 again.
	Emergency release or wicket door contact has been activated.	Re-engage the motor head or check the wicket door contact.
	Internal error	An error has occurred during the self-test. Pull out the mains plug, then plug it back in after approx. 10 seconds.
	End position monitoring function has detected an authorised opening attempt in CLOSE end position.	The message is deleted with the next regular drive.

Value	State	Diagnosis/remedy
	Motor standstill.	The motor does not rotate. Call a specialist company to repair the motor.
	Electronic brake activated. The garage light remains on.	The operator is pulled from upper end position. Check the door and the springs. Set a lower upper end position.
	Fault at the photoelectric sensor	Check the wiring of the photoelectric sensor.
	Vacation lock is activated. Door does not open.	The side switch for SafeControl/Signal 112 is active. A reset is required.

9 Maintenance / checks

9.1 Notes on maintenance / checks

NOTICE

For your safety, we recommend that the door system be checked as needed – however, at least once a year – in accordance with the check list of the door system in the "Check lists" chapter. The check can be carried out by a person with the corresponding qualification certificate or by a specialist company.

NOTICE

After an inspection, the user must do any necessary maintenance.

- All inspection and maintenance activities are to be documented in the supplied proof of inspection and maintenance of the door system (see “Check lists” chapter).
- The manufacturer's specified inspection and maintenance intervals must be observed.
- The manufacturer’s guarantee becomes null and void in the event that the specified inspection/maintenance activities have not been carried out properly.
- Modifications or changes to the garage door drive must be permitted by the manufacturer. Alterations to the garage door drive (in as far as permitted) must also be documented.

9.2 Monthly monitoring the force limits

In an end position or after restarting, the integrated power disconnection is tested automatically.

⚠ WARNING

Crush hazard at the door!

If the force limits are set too high, there is a risk of personal injury.

- The force on the main closing edge must not exceed 400 N for a maximum of 750 ms!

Check the force limits every month as described in chapter "Checking the force limits" and document it in accordance with the specifications in the "Proof of inspection and maintenance of the door system” chapter.

9.3 Check lists

9.3.1 Commissioning report

Owner / operating company of the system:	
Location of door system:	
Drive data	
Manufacturer:	
Drive type:	
Operating mode:	
Manufacture date:	
Door data	
Type:	
Serial no.:	
Year of construction:	
Door dimensions:	
Door leaf weight:	
Installation and initial operation	
Company, installer:	
Name, installer:	
Initial operation on:	
Signature:	
Other:	
Changes:	

9.3.2 Check list for door system

Confirm features/checks at start-up with a check mark.

No.	Equipment	Present?	Features to be tested	Note
1.0	**Garage door**			
1.1	Manual opening and closing		Smooth running	
1.2	Fastenings / connections		State / seat	
1.3	Pivots / joints		State / lubrication	
1.4	Track rollers / track roller holders		State / lubrication	
1.5	Seals / sliding contact strips		State / seat	
1.6	Door frame / door guide		Alignment / fastening	
1.7	Door leaf		Alignment / state	
2.0	**Weight**			
2.1	Springs		State / seat / setting	
2.1.1	Spring strips		State	
2.1.2	Spring break device		State / rating plate	
2.1.3	Safety elements (spring connector,…)		State / seat	
2.2	Wire cables		State / seat	
2.2.1	Mounting		State / seat	
2.2.2	Cable drum			
2.3	Fall protection		State	
2.4	Concentricity of T-shaft		State	
3.0	**Drive / control**			
3.1	Drive / rail / bracket			
3.2	Electrical cables / connections			
3.3	Emergency release		Function / state	
3.4	Control devices, push buttons / hand-held transmitters		Function / state	
3.5	Limit stop		State / position	
4.0	**Safeguarding of crush and shearing zones**			
4.1	Force limit		Stops and reverses	
4.2	Protection against lifting of persons		Door leaf stops at 20 kg	
4.3	Site conditions		Safely distances	
5.0	**Other equipment**			
5.1	Latching / lock		Function / state	
5.2	Wicket door		Function / state	
5.2.1	Wicket door contact		Function / state	
5.2.2	Door closer		Function / state	
5.3	Traffic light control		Function / state	
5.4	Photoelectric sensors		Function / state	

No.	Equipment	Present?	Features to be tested	Note
5.5	Closing edge safety device		Function / state	
6.0	**Documentation of the operator / owner**			
6.1	Rating plate / CE marking		complete / readable	
6.2	Door system's Declaration of Conformity		complete / readable	
6.3	Installation, Operation and Maintenance Instructions		complete / readable	

9.3.3 Proof of inspection and maintenance of the door system

Date	Work performed / necessary measures	Test carried out	Defects rectified
		Signature / company address	Signature / company address

10 Cleaning / care

DANGER

Hazardous voltage!

If the drive comes into contact with water, there is a risk of electric shock!
Do not use any water or liquid detergent for cleaning.

WARNING

Impact and crush hazard due to inadvertent door movement!

When cleaning the control unit, inadvertent movement of the door may be activated.

- Disconnect the control unit from the mains by pulling out the mains plug.

If necessary, wipe the drive with a dry cloth.

11 Disassembly / disposal

11.1 Disassembly

Disassembly is carried out in reverse order of the assembly instructions in the **Installation** chapter.

11.2 Disposal

For disposal, disassemble the door system and separate it into its individual material groups:

- plastics
- non-ferrous metals (e.g. copper scrap)
- electric scrap (motors)
- steel

Dispose of all materials according to the national legislation! Dispose of packaging material in an environmentally friendly way and in accordance with the applicable local disposal regulations.

The symbol with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.

UK (The following applies for the United Kingdom)

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) and the Waste Batteries and Accumulators Regulations 2009 (SI 2009/890) (as amended), devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

12 Warranty terms

Please note that the scope of the warranty is restricted to private use of the system. We define private use as a maximum of 10 cycles (OPEN/CLOSE) per day. The full text of the warranty terms can be found at:
https://www.novoferm.de/garantiebestimmungen

13 Declaration of conformity and incorporation

13.1 Declaration of Incorporation in accordance with the EC Machinery Directive 2006/42/EC

Manufacturer's declaration of incorporation (translation of the original)

For the installation of partly completed machinery in terms of the EC Machinery Directive 2006/42/EC, Annex II Part 1 Section B

We hereby declare that the following partly completed machinery – as far as possible with respect to the scope of supply – complies with the essential requirements of the EC Machinery Directive. The partly completed machinery is only intended to be incorporated into a door system to thus form a complete machine within the meaning of the EC Machinery Directive. The door system must not be put into service until the final machinery has been declared in conformity with the provisions of the EC Machinery Directive and the EC Declaration of Conformity according to Annex II A is available. We furthermore declare that the relevant technical documentation for this partly completed machinery has been compiled in accordance with Annex VII, Part B, and undertake to transmit it through our Documentation Department in response to a reasoned request by the competent national authorities.

Product model / product:	NovoPort® Speed
Product type:	Garage door drive
Year of manufacture from:	03/2023
Relevant EC/EU directives:	2014/30/EU 2011/65/EU RoHS Directive including Annex II according to (EU) 2015/863
Fulfilled requirements of the EC Machinery Directive 2006/42/EC, Annex I, Part 1:	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, 1.3.2, 1.3.4, 1.5.1, 1.5.2, 1.5.4, 1.5.5; 1.5.6, 1.6.1, 1.6.2, 1.6.3; 1.7
Applied harmonised standards:	EN ISO 12100:2010; EN ISO 13849-1:2015, PL „C“ Cat. 2; EN 60335-1:2012/AC:2014; EN 60335-2-95:2015-01/A1:2015-06; EN 61000-6-3:2007/A1:2011; EN 61000-6-2:2005/AC:2005
Other applied technical standards and specifications:	EN 12453:2022; EN 300220-1:2017-05; EN 300220-2:2017-05; EN 301489-1:2017
Manufacturer and name of the authorised representative of the technical documentation:	Novoferm tormatic GmbH Eisenhüttenweg 6 44145 Dortmund
Place and date of issue:	Dortmund, 29.11.2022

Dr. René Schmitz, Managing Director

13.2 Declaration of Conformity according to Directive 2014/53/EU

The integrated radio system complies with directive 2014/53/EU. The full text of the declaration of conformity can be found at:
https://www.tormatic.de/dokumentation/

13.3 Declaration of Incorporation in accordance with the Supply of Machinery (Safety) Regulations 2008

Manufacturer's declaration of incorporation (original)

For the installation of partly completed machinery in terms of the Supply of Machinery (Safety) Regulations 2008, Annex II Part 1 Section B

We hereby declare that the following partly completed machinery – as far as possible with respect to the scope of supply – complies with the essential requirements of the Supply of Machinery (Safety) Regulations 2008. The partly completed machinery is only intended to be incorporated into a door system in connection with the door drives specified below, to thus form a complete machine within the meaning of the Supply of Machinery (Safety) Regulations 2008. The door system must not be put into service until the final machinery has been declared in conformity with the provisions of the Supply of Machinery (Safety) Regulations 2008 and the Declaration of Conformity according to Annex II A is available. We furthermore declare that the relevant technical documentation for this partly completed machinery has been compiled in accordance with Annex VII, Part B, and undertake to transmit it through our Documentation Department in response to a reasoned request by the competent national authorities.

Product model / product:	NovoPort® Speed
Product type:	Garage drive
Year of manufacture from:	03/2023
Relevant regulations:	Electromagnetic Compatibility Regulations 2016 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Other applied technical standards and specifications:	EN 12453:2017/prA1:2019; EN 300220-1:2017-05; EN 300220-2:2017-05; EN 301489-1:2017
Authorised representative:	Novoferm UK Ltd. Sedwick Road, North Luton Industrial Estate, Luton LU49Dt, United Kingdom Tel.: +441582 563777 / FAX: +441582 868801
Manufacturer:	Novoferm tormatic GmbH Eisenhüttenweg 6 44145 Dortmund, Germany
Place and date of issue:	Dortmund, 29.11.2022

Dr. René Schmitz, Managing Director Novoferm tormatic GmbH

13.4 Declaration of Conformity according to Radio Equipment

The integrated radio system complies with Radio Equipment Regulations 2017. The full text of the declaration of conformity can be found at:
https://www.tormatic.de/dokumentation/

Novoferm tormatic GmbH
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44145 Dortmund