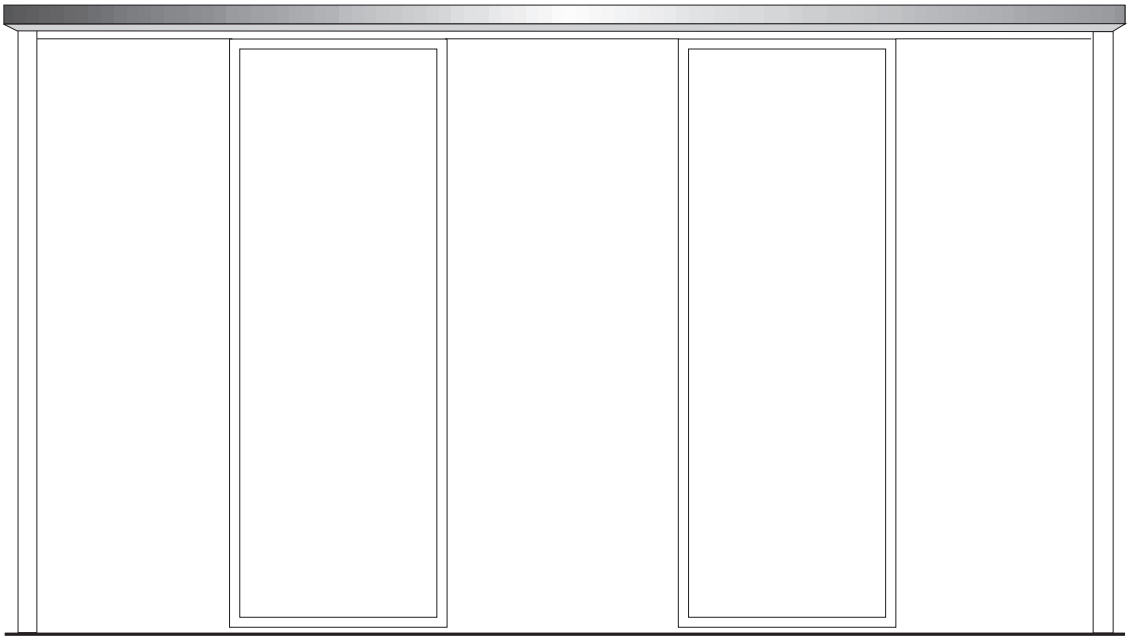


Slimdrive SL NT

Product family

EN Installation and service instructions

192351
2025-12_03

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Symbols and illustrations

Warning notices
In these instructions, warning notices are used to warn against material damage and injuries.
- ▶ Always read and follow these warnings.
- ▶ Follow all measures labelled with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	**DANGER**	Danger to persons. Non-compliance will result in death or serious injuries.
	**WARNING**	Danger to persons. Non-compliance can result in death or serious injuries.
	**CAUTION**	Danger to persons. Non-compliance can result in minor injuries.

Further symbols and illustrations
Important information and technical instructions are highlighted to explain correct operation.

Symbol	Meaning
	means “important note”. Information to prevent property damage, to understand or optimise the operation sequences.
	means “additional Information”
▶	Symbol for an action: This means you must do something. ▶ If there are several actions to be taken, keep to the given order.

Revisions and validity

Version 03: valid for Slimdrive SL NT product family from model year 2026.

Product liability

In accordance with the manufacturer’s liability for its products as defined in the German “Product Liability Act”, compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from its statutory liability.

Reference documents

Type	Name
Wiring diagram	Automatic sliding doors door control units DCU1-NT/DCU1-2M-NT
Additional wiring diagram	Automatic sliding doors DCU1-2M-NT, door controller DCU1-2M-NT for automatic sliding doors on rescue routes, FR-variants DUO, LL, RWS
User manual	Automatic sliding door systems
Faults and corrective measures	DCU1-NT/DCU1-2M-NT electronic drive for automatic sliding doors
Cable plan	Automatic sliding door systems
Safety analysis	Automatic sliding doors
Pre-installation instructions	Slimdrive SL NT product family
Installation instructions	Slimdrive SL NT girder section and fixed panel
Additional installation instructions	Slimdrive SL NT GGS

These documents are subject to change. Use only the most recent version.

1 General safety notes

1.1 Intended use

The sliding door system is used for the automatic opening and closing of a building passage.
The sliding door system may only be used in a vertical installation position and in dry rooms within the permitted application area.
The sliding door system is designed for pedestrian traffic in buildings.
The sliding door system is not designed for the following uses:

- for industrial use
- for area of application which do not serve pedestrian traffic (such as garage doors)
- on mobile objects such as ships

The sliding door system may only be used:

- in the modes of operation provided for by GEZE
- with the components approved / released by GEZE
- with the software delivered by GEZE
- in the installation variants / types of installation documented by GEZE
- within the tested/approved area of application (climate / temperature / IP rating)

Any other use is considered improper and will lead to the cancellation of all liability and warranty claims against GEZE.

1.2 Safety notes

- Intervention and modifications which influence the safety technology and functionality of the sliding door system may only be carried out by GEZE.
- Problem-free and safe operation assumes proper transportation, proper set-up and installation, qualified operation and correct maintenance have taken place.
- The relevant accident prevention regulations and other generally recognised safety-related or health & safety rules must be kept.
- Only original accessories, original spare parts and accessories approved by GEZE guarantee problem-free function of the sliding door system
- The mandatory installation, maintenance and repair work must be performed by properly trained personnel authorised by GEZE.
- The country-specific laws and regulations are to be observed during safety-related tests.
- If unauthorised changes are made to the system, GEZE cannot be held liable in any way whatsoever for any resulting damage, and the statement of approval for use in escape and rescue routes is no longer valid.
- GEZE does not accept any warranty for combinations with third-party products.
- Only original GEZE parts may be used for repair and maintenance work.
- Connection to the mains voltage must be carried out by a qualified electrician or a qualified electrician for specified tasks. Perform the mains connection and protective conductor test in accordance with VDE 0100 Part 600.
- Use an on-site circuit breaker as the mains-side disconnecting device, the rated value of which is matched to the type, cross-section, installation methods and ambient conditions of the on-site mains supply line. The circuit breaker must have a minimum rating of 4 A and a maximum rating of 16 A.
- Protect the display programme switch against unauthorised access.
- In compliance with Machinery Directive 2006/42/EC, a risk analysis must be performed and the door system identified in accordance with CE Marking Directive 93/68/EEC before the door system is commissioned.
- Observe the latest versions of guidelines, standards and country-specific regulations, in particular:
  - DIN 18650: “Powered pedestrian doors”
  - VDE 0100, Part 600: “Installation of low-voltage systems”
  - EN 16005 : “Power operated pedestrian doorsets; safety in use; Requirements and test methods”
  - DIN EN 60335-1 “Safety of electrical devices for home use and similar purposes - Part 1: General requirements”
  - EN 60335-2-103 : “Household and similar electrical appliances - Safety, Particular requirements for drives for gates, doors and windows”
  - Relevant regulations must be used for the selection of suitable fasteners e.g. the guidelines for planning and executing the installation of windows and front doors for new buildings and refurbishment issued by RAL Gütergemeinschaft Fenster und Haustüren e.V. (RAL Quality Institute for Windows and Doors).
- Do not loosen screwed, electric earthing connections.



Install/fit the product in such a way that it can be easily accessed for any repairs and/or maintenance with relatively little effort and that any removal costs are not disproportionate to the value of the product.

1.3 Safety-conscious working

- Secure workplace against unauthorised entry.
- Watch the swivelling range of long system parts.
- Never carry out work with a high safety risk (e.g. installing the drive, drive cover or door leaf) while alone.
- Secure the cover/drive panels against falling.
- Secure non-fixed components to prevent them falling.
- Only use the cables specified in the wiring schematic. Connect the shields according to the wiring diagram.
- Secure loose internal drive cables with cable ties.
- Before working on the electrical system:
  - Disconnect the drive from the 230 V mains and secure it against being switched back on again. Check isolation from power supply.
  - Disconnect the control unit from the 24 V rechargeable battery.
- Note that if an Uninterruptible Power Supply (UPS) is used, the system will still be supplied with voltage despite the fact that the power supply is disconnected.
- Always use insulated wire end ferrules for wire cores.
- Make sure of sufficient lighting.
- Use safety glass.
- Attach safety stickers to glass leaves.
- Danger of injury with opened drive. Hair, clothing, cables, etc. can be drawn in by rotating parts!
- Danger of injury caused by unsecured crushing, impact, drawing-in or shearing spots!
- Danger of injury due to glass breakage! Always only use safety glass.
- Danger of injury due to sharp edges on the drive and door leaf.
- Danger of injury during installation through freely moving parts!

1.4 Environmentally conscious working

- When disposing of the door system, separate the different materials and have them recycled.
- Do not dispose of batteries and rechargeable batteries with household waste.
- Comply with the statutory regulations when disposing of the door system and the batteries/rechargeable batteries.

1.5 Safety notes related to transportation and storage

- The door system and its parts are not built for hard impact or for falling from a height.
- ▶ Do not throw, do not drop.
- Storage temperatures below –30°C and above +60°C may cause damage to the device.
- Protect against humidity.
- Use special glass transport devices (e.g. A-frames) for transporting glass.
- Separate several panes on a frame or during storage using intermediate layers (e.g. cork pads, paper or plastic cords).
- Always store glass in a vertical position on level and load-bearing ground. Use suitable material as a support (e.g. wooden slats).
- In the case of insulating glass, make sure that it is placed flush across the entire element thickness on at least 2 supports.
- During storage and support, safety devices must not cause any damage to the glass or edge seal of ISO glass and must be attached flat on the glass pane surface.
- Dry, well ventilated, closed, weather-proof and UV-protected rooms are suitable as storage areas

1.6 Qualification

Observe country-specific regulations!
Applicable in Germany:
Companies which carry out the pre-mounting of sliding door drives for escape routes must be approved as an extended production facility by the testing institute which issued the type approval certificate.

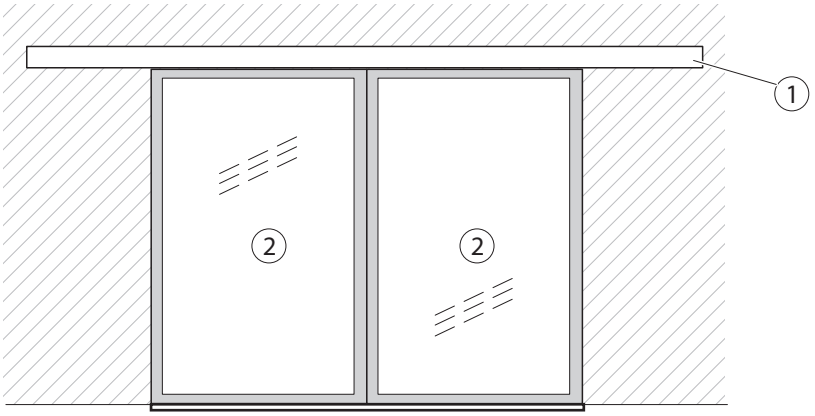
2 About this document

2.1 Overview

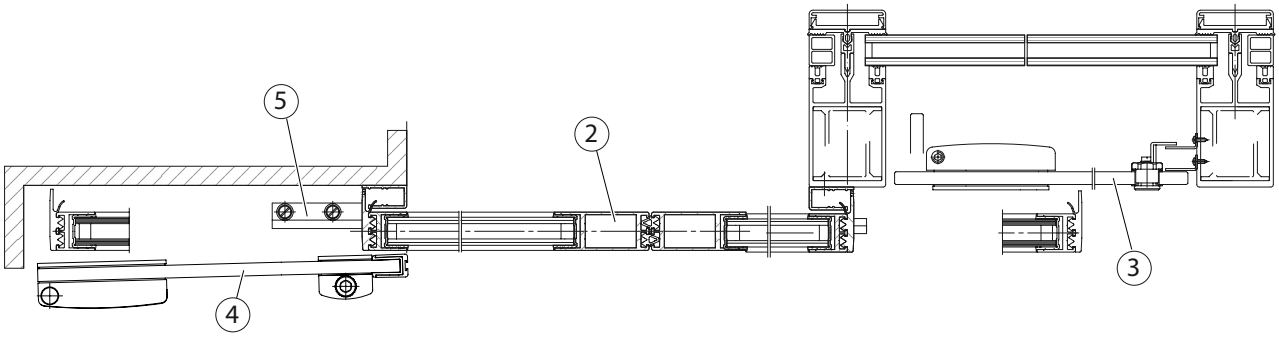
These instructions describe the installation of the automatic sliding door drives of the Slimdrive SL NT product family. The installation of the fixed panels and the girder section is described in the installation instructions "Girder section with fixed panel".

The following drawings illustrate installation with ISO profile systems.
The following profiles are also possible in combination with the Slimdrive SL NT:
- IGG
- GGS

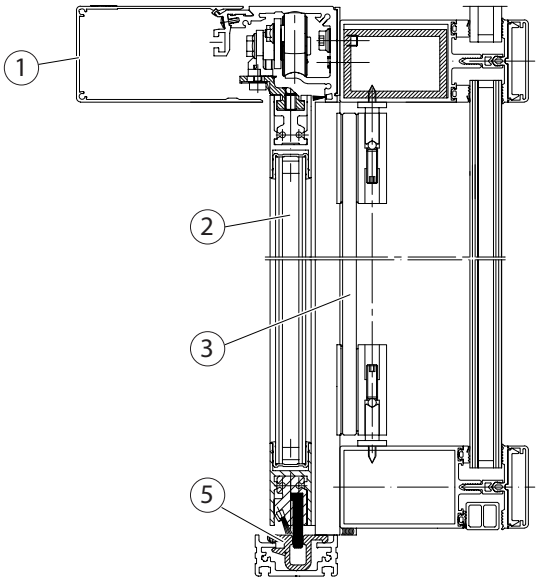
Front view (drive side)



View from above (Slimdrive SL NT with ISO profiles)



View from the side (Slimdrive SL NT with ISO profiles on post-rail construction)



1 Sliding door system drive
2 Moving leaf
3 Safety leaf
4 Protective leaf
5 Floor guide

3 Overview

3.1 Diagrams

Number	Type	Name
70511-0-001	Drive drawing	GEZE Slimdrive SL NT, drives
70511-ep01	Installation plan	Slimdrive SL NT /-FR, ISO-glass fitting
70511-ep03	Installation plan	Slimdrive SL NT /-FR, ISO-glass fitting
70511-ep05	Installation plan	Slimdrive SL NT/-FR , IGG-door fitting
70511-ep06	Installation plan	Slimdrive SL NT /-FR with GGS
70511-ep07	Installation plan	Slimdrive SL NT with protective leaf
70511-ep08	Installation plan	Slimdrive SL NT/-FR, wooden leaf
70511-ep13	Installation plan	Slimdrive SL NT /-FR, ISO-glass fitting + hook lock
70511-ep16	Installation plan	Slimdrive SL NT & Lock A, 2-leaf
70511-ep17	Installation plan	Slimdrive SL NT & Lock A, 1-leaf
70511-ep18	Installation plan	Slimdrive SL NT /-FR, Lock M, 2-leaf
70511-ep19	Installation plan	SL NT /-FR, Lock M, 1-leaf
70511-ep21	Installation plan	Slimdrive SL NT /-FR, ISO-glass fitting, Lock M
70504-ep03	Installation plan	Floor lock for ISO
70484-ep04	Installation plan	Safety leaf for sliding door systems
70511-2-0209	Component drawing	Track, bespoke, SL NT
70511-2-0231	Component drawing	Track, drilled, SL NT
70511-2-0281	Component drawing	Track, bespoke, SL NT 2-leaf, GGS with fixed panels
70511-2-0282	Component drawing	Track, bespoke, SL NT 1-leaf, left hand slide to open, GGS with fixed panel
70511-2-0283	Component drawing	Track, bespoke, SL NT 1-leaf, right hand slide to open, GGS with fixed panel
70511-2-0228	Component drawing	Connecting profile roller carriage
70511-2-0200	Component drawing	Cover, bespoke, SL NT
70511-1-0107	Component drawing	Module mount right, DCU1-NT, SL NT
70511-1-0108	Component drawing	Module mount right, SL NT -FR 2M / -FR DUO
70511-1-0109	Component drawing	Module mount right, SL NT -FR LL/ -FR RWS
70511-1-0106	Component drawing	Module mount left SL NT and locking mechanism
70511-1-0117	Component drawing	Module mount left, SL NT
70715-1-0159	Assembly group drawing	Continuous floor guide
70715-9-9854	Installation drawing	ISO leaf Slimdrive SL NT
70715-9-9864	Installation drawing	ISO leaf, rubber secondary closing edge, Lock M, Slimdrive SL NT
70715-9-9863	Installation drawing	ISO leaf, rubber secondary closing edge, Lock A, Slimdrive SL NT

The diagrams are subject to change without notice. Use only the most recent version.

3.2 Tools and aids

Tool	Size
Tape measure	
Marking pen	
Torque spanner	
Allen key	2 mm, 2.5 mm, 3 mm, 4 mm, 5 mm, 6 mm
Open-ended spanner	8 mm, 10 mm, 13 mm, 15 mm
Ring spanner	8 mm
Screwdriver set	Slotted up to 6 mm, cross-slot PH2 and PZ2
Torx key	Tx 20 (bit insert length at least 110 mm)
Side-cutting pliers	
Crimping pliers for cables	
Wire stripper	
Plastic bottle as tip safeguard	
Display programme switch/service terminal ST220/myGEZE Connects	

3.3 Torques

The torques are given at the respective installation step.

3.4 Components and assembly groups

See the ep-drawing for the required installation situation and drive drawings.

4 Installation

- ▶ Secure workplace against unauthorised entry.
- ▶ Always work with a second person.
- ▶ Use a stepladder or stepstool.
- ▶ Keep inside area of track clean.

4.1 Preparations to be made on-site

- ▶ Check the preparations made on-site by the customer to ensure proper installation:
  - ▫ Type and load capacity of the façade construction or suspending frame
  - ▫ Flatness of the installation surface
  - ▫ Flatness of the finished floor level
  - ▫ Cable plan requirements

4.2 Preparing the track

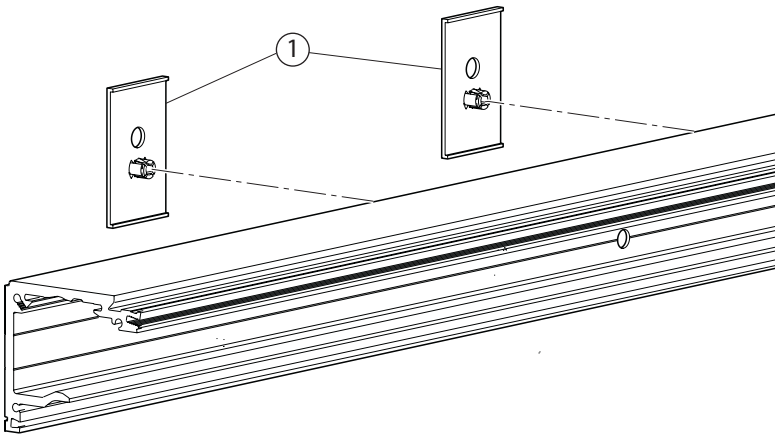
Pre-mounted systems are delivered with attached module mount.

- ▶ Remove the module mounts to make it easier to fix the track to the wall.

4.3 Mounting the track

- ▶ Protect the running surface from damage.

4.3.1 Mounting the intermediate plates



- ▶ Clip the intermediate plates (1) onto the rear of the track.
  - ▫ Upper row of drill holes for wall installation
  - ▫ Lower row of drill holes for the clip of the intermediate plate

Mounting can also be carried out conversely depending on the building structure (post design). Use the upper row of drill holes for fixing if possible.

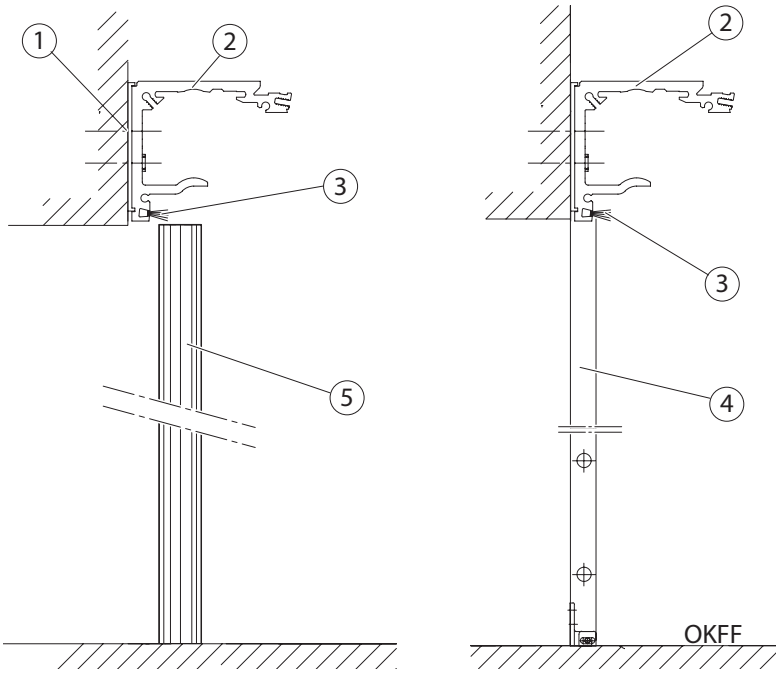
4.3.2 Install the track

View from the side

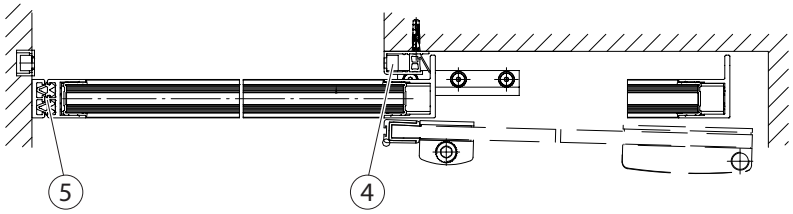
- ▶ Determine the installation height of the track (2).
  Take unevenness of wall and floor into account.
- ▶ Align the track horizontally.
- ▶ Mark the fastening drill holes (1) (upper row of drill holes on the track).
- ▶ Remove the track.
- ▶ Drill the holes (1) for fixing.
- ▶ Install the brush profile with brush (3).
- ▶ Screw the track (2) in place.
- ▶ Install the sealing profiles (4).
- ▶ Press rubber seal into the draught sealing profiles.

With 1-leaf Appendixes:

- ▶ Install the wall strips (5).



View from above



4.4 Mounting the floor guide

- ▫ The selection of floor guide depends on the on-site conditions. One of the following floor guide options must be used.
- ▫ For further information see the respective installation drawing, Chapter 4.1.

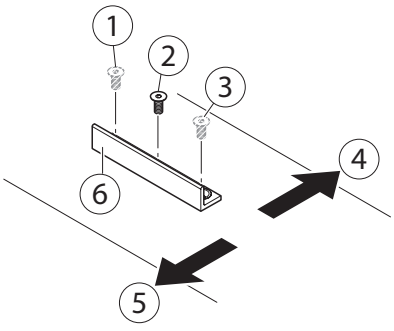
4.4.1 Fitting angled floor guide for floor mounting (Option)

Angled floor guide with moving leaf left hand slide to open

- ▶ Screw the angled floor guide (6) in place using 2 suitable countersunk screws (1) and (2).

Angled floor guide with moving leaf right hand slide to open

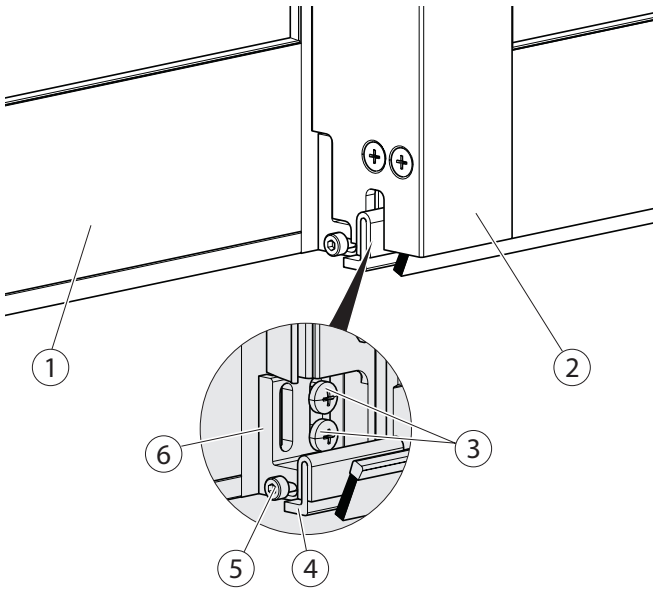
- ▶ Screw the angled floor guide (6) in place using 2 suitable countersunk screws (3) and (2).



1 Countersunk screw for moving leaf left hand slide to open
2 Countersunk screw
3 Countersunk screw for moving leaf right hand slide to open
4 outside
5 inside
6 Angled floor guide

4.4.2 Adjustable angled floor guide for wall mounting (Option)

- Screw the fixing bracket (2) to the fixed panel (1) using two screws (5) (torque 5 Nm).
- Align the moving leaf (6) and thus the adjusting angle (4) and tighten the screw (3) (torque 3 Nm).
- If there is no fixed panel available, mount the floor guide on the wall using suitable attachment material.



4.4.3 Continuous floor guide (Option)

- See the component drawing “Continuous floor guide” on how to install the continuous floor guide.
- For further information see the respective installation diagrams, Chapter 4.1.

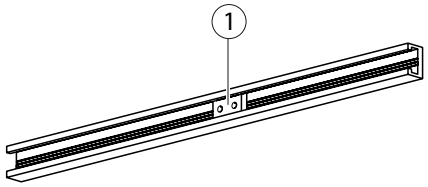
4.5 Installing the moving leaf

4.5.1 Fit the connecting arm

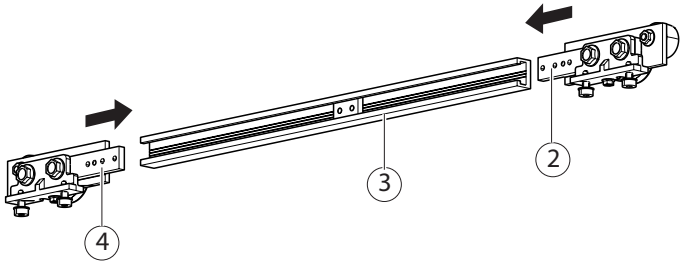
WARNING!
Danger of injury due to glass breakage!
- Always install the moving leaves together with another person.

WARNING!
Danger of crushing!
The moving leaves are still unsecured and move easily.
- Ensure that the moving leaves are not moved accidentally or by unauthorised persons!

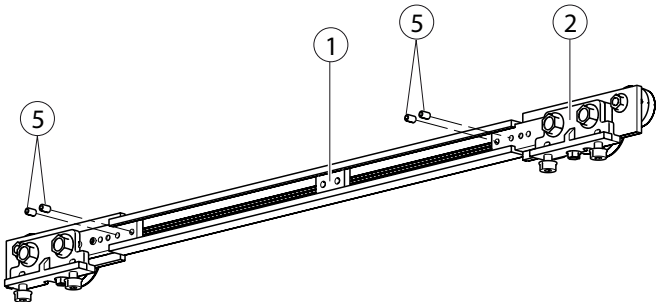
1-leaf
- Slide the clamping plate (1) into the connecting arm (only for 1-leaf doors).



- Slide the roller carriage (2, 4) into the connecting profile (3).

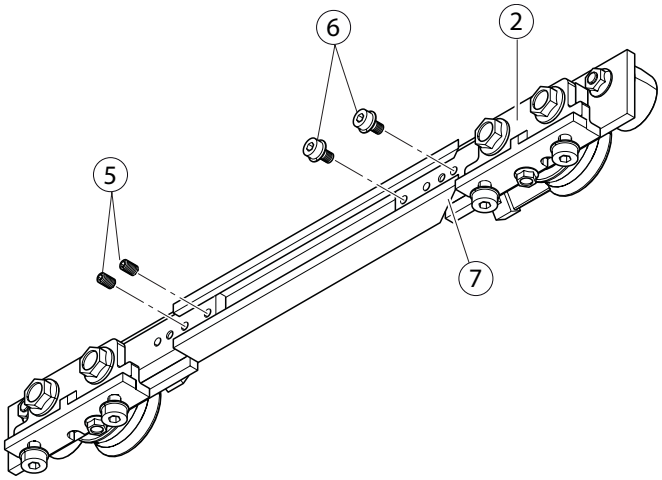


- Secure both roller carriages (2, 4) with 2 setscrews (5) each (torque 3 Nm).



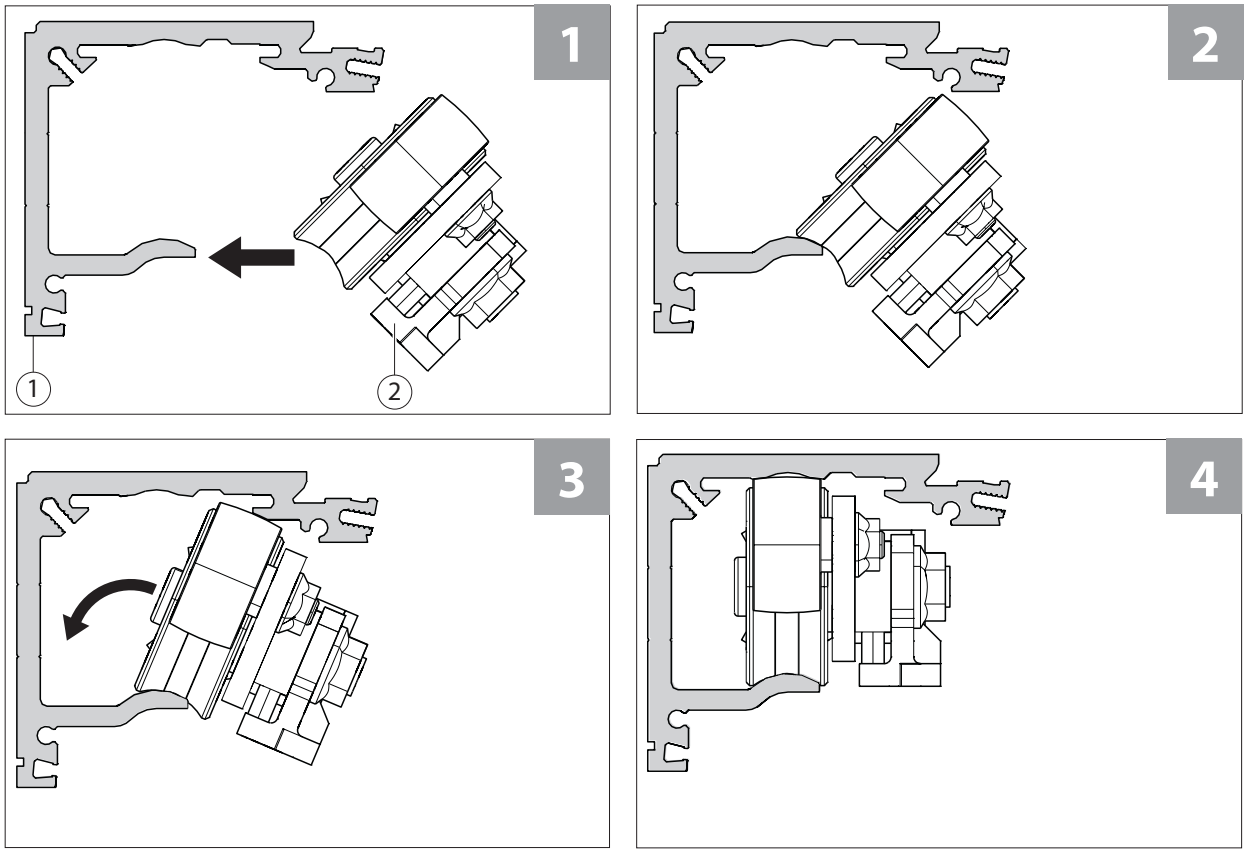
Double leaf
- Secure the roller carriage (towards the secondary closing edge) with setscrews (5) (torque 3 Nm).
- Fasten the second roller carriage (towards the main closing edge) with the two screws for the driver (torque 5 Nm).

- The angled part (7) of the connecting arm must be facing the main closing edge.

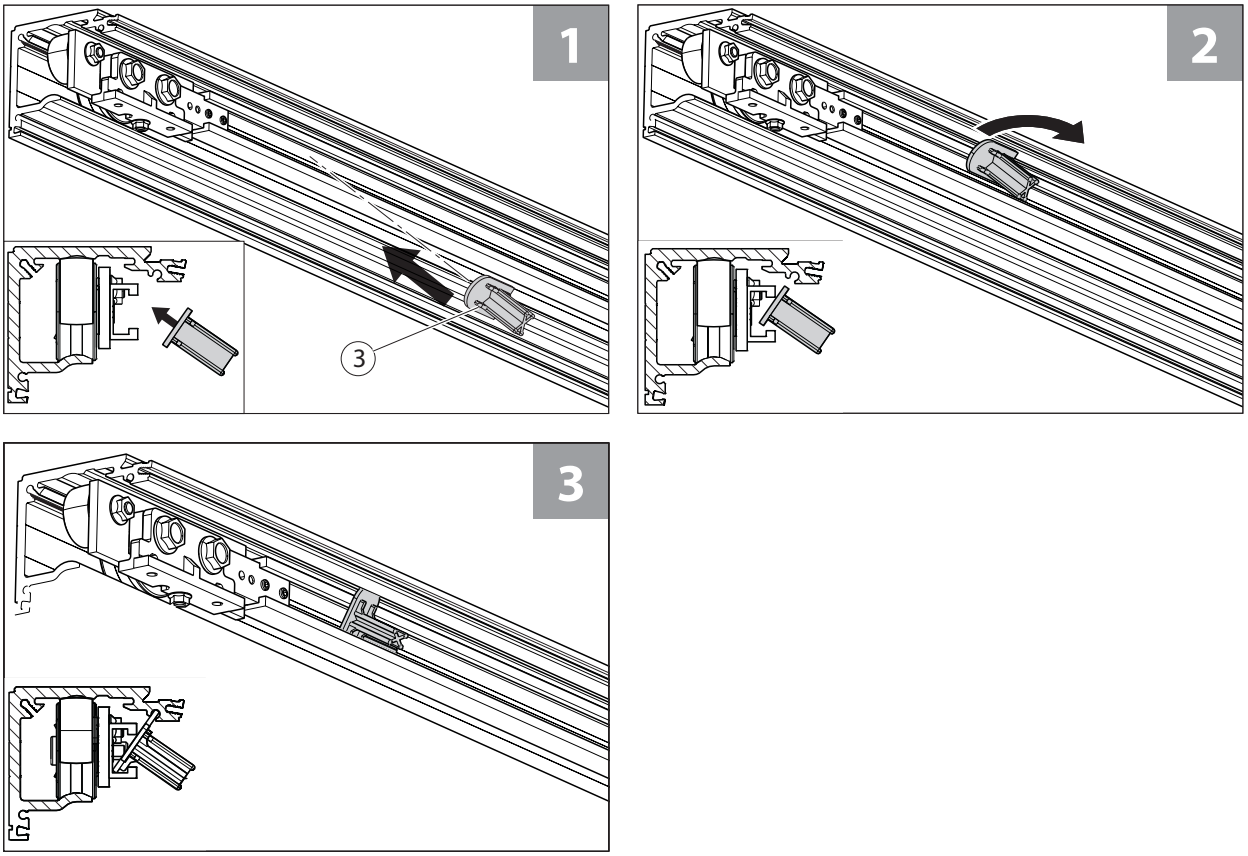


4.5.2 Inserting roller carriage into the track

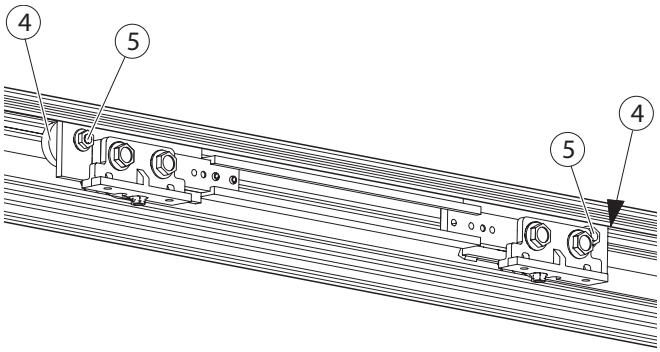
▶ Insert roller carriage (2) into the track (1) as shown below.



▶ Insert the moving leaf mounting aid (3) as shown below to secure the roller carriage in the track.



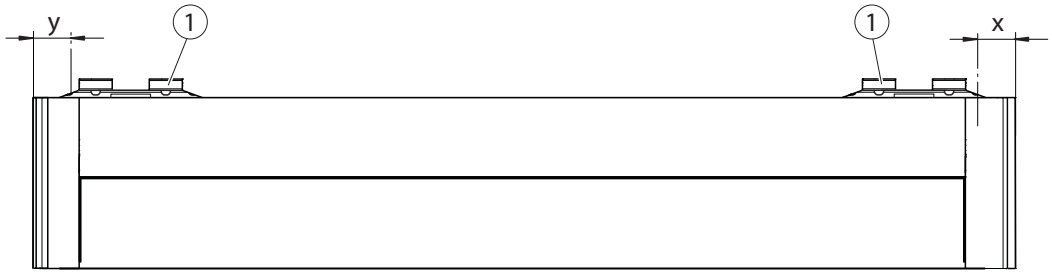
- Slide the track-supporting rollers (4) upwards and tighten slightly using screws (5).



4.5.3 Install the supporting brackets on the moving leaf

The supporting brackets are installed during glazing of the moving leaves. In case of subsequent installation of the supporting brackets, the frames of the moving leaves must be dismantled (see installation instructions for moving leaves).

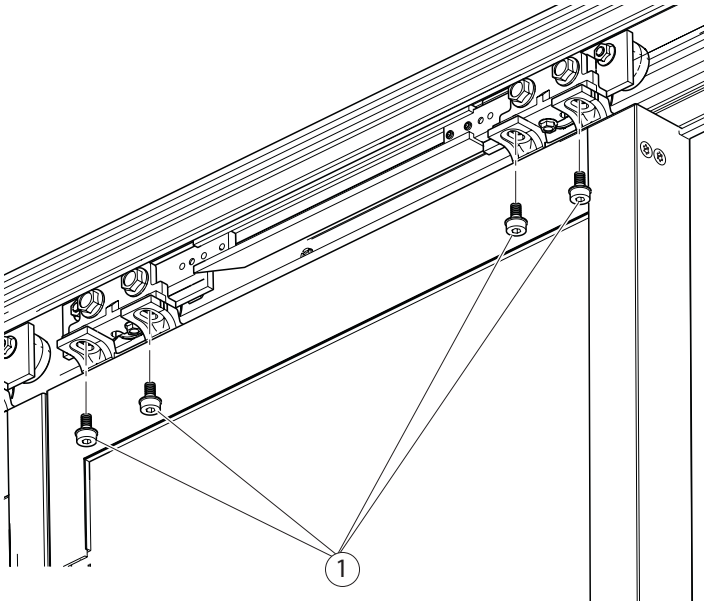
- See installation drawing for the moving leaf for the position of the supporting brackets (1).



4.5.4 Fitting the moving leaves

WARNING!
Danger of injury caused by moving leaf falling over
The moving leaves are very heavy.
- At least 2 people should work together to set up the moving leaves.

- Use 4 suspension bolts (1) to screw the moving leaf to the roller carriage, do **not** tighten these yet.
- Remove the moving leaf mounting aid.

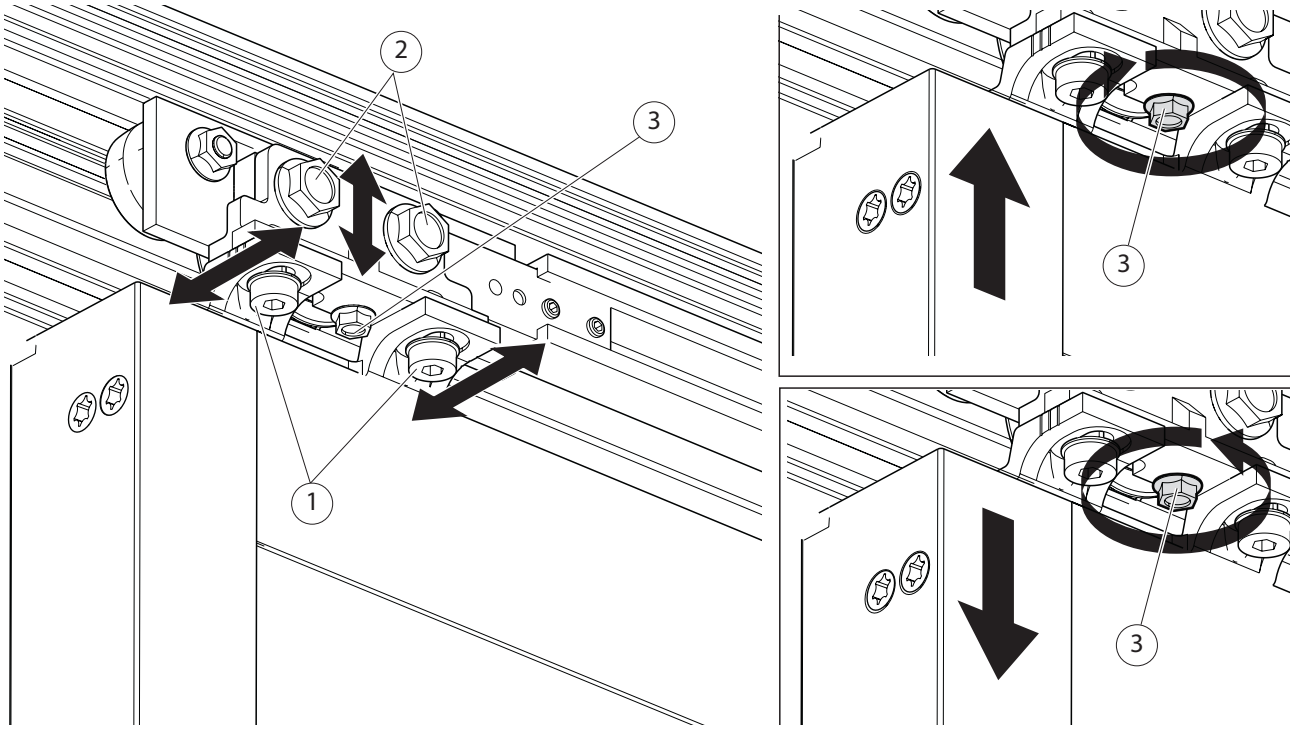


4.5.5 Adjusting the moving leaves

WARNING!
Danger of injury caused by crushing!
The moving leaves are still unsecured and move easily.
- ▶ Make sure that the moving leaves are not moved accidentally or by unauthorised persons.

- ▶ Observe the applicable standards and guidelines on crushing, shearing and drawing-in spots.

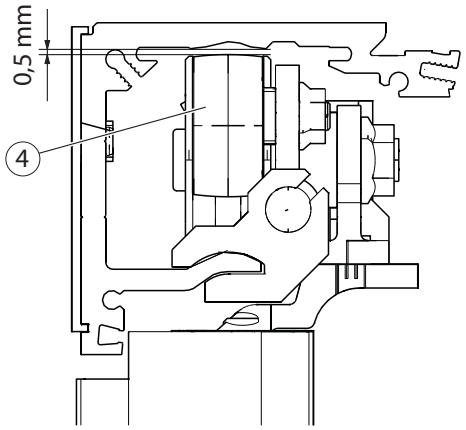
Adjust the parallel position and height of the moving leaves



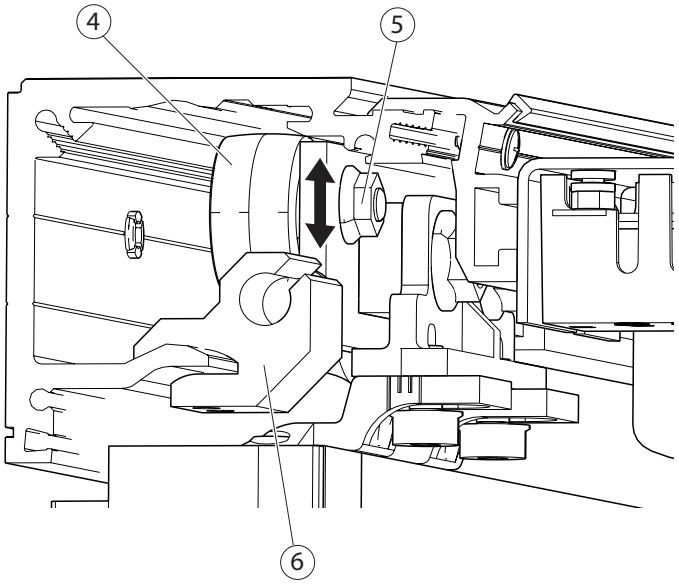
- ▶ Use the suspension bolts (1) to align the door moving leaves flush. Ensure the same level and parallel closing edges when doing so.
- ▶ Loosen the fixing screw for the height adjustment (2) and use the adjustment screw (3) to adjust the moving leaf height.
  Double leaf: Adjust the height of both moving leaves.
- ▶ Tighten the screws (2) (torque 20 Nm).
- ▶ Tighten the screws (1) (torque 10 Nm).
- ▶ Tighten the screw (3) (torque 5 Nm).
- ▶ Note the shearing and pinching spots in accordance with DIN 18650 and DIN EN 16005, see safety analysis and diagrams in Chapter 3.1.
- ▶ Make the individual moving leaf move smoothly.

Adjusting the counter-roller

The counter-roller (4) must have an upper clearance of 0.5 mm to the track (corresponds approximately to the thickness of 4 sheets of copy paper).



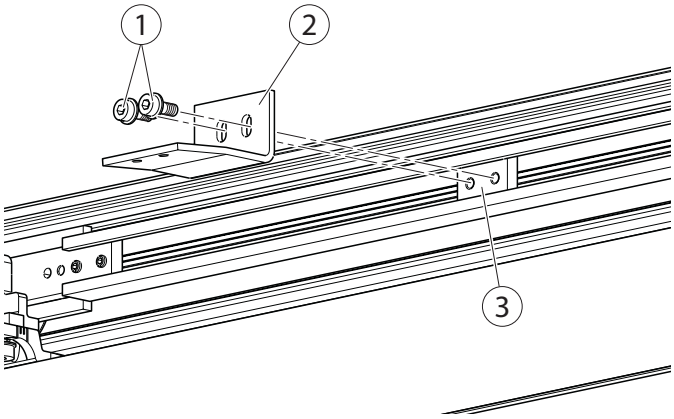
- Loosen the screw (5) on the rear of the counter-roller.
- Move the counter-roller until a clearance of approx. 0.5 mm is set.
- Tighten the screw (5) again (torque 10 Nm).



4.5.6 Mounting the short driver

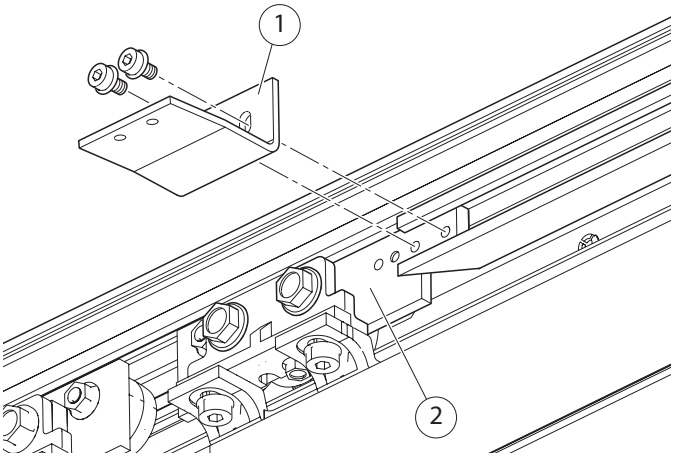
- Drivers must not touch any obstacle over the entire travel path.
- See the drive drawing for the precise position of the driver.

1-leaf:



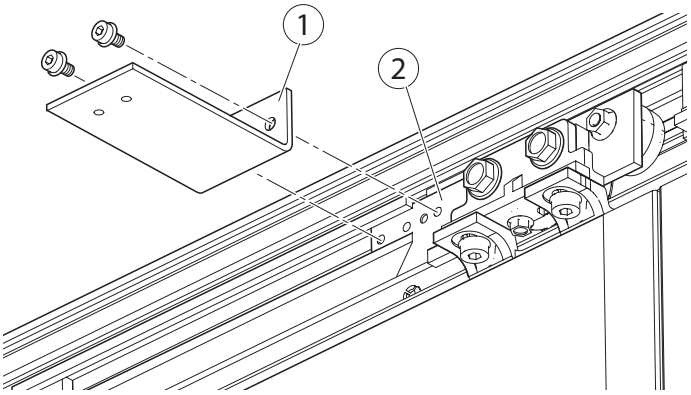
- ▶ Mount the short driver (2) to the clamping plate (3) using 2 screws (1).
- ▶ Position the clamping plate (3) and short driver (2) on the connecting arm (see drive drawing for position).
- ▶ Tighten the screws (1) (torque 5 Nm).

2-leaf:



- ▶ Use 2 screws to screw the short driver (1) through the outer oblong holes to the left roller carriage (2) on the right moving leaf (torque 5 Nm).

4.5.7 Install the long driver (2-leaf)

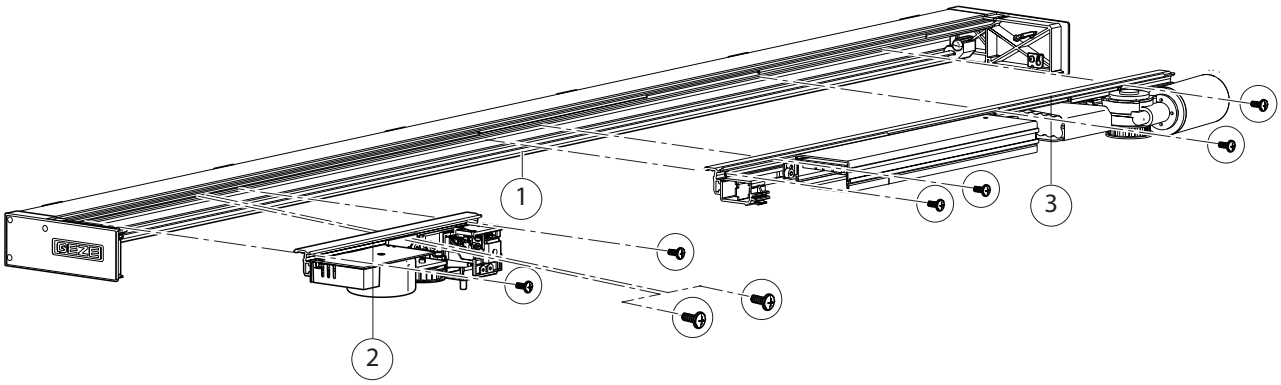


- ▶ Use 2 pre-mounted screws to screw the long driver (1) through the outer oblong holes to the right roller carriage (2) on the left moving leaf (torque 5 Nm).
- ▶ Position the moving leaf in the closed position.

4.6 Installing the drive components

4.6.1 Mounting the module mounts on the left and right

WARNING!
Unsecured components may fall when under load.
- When mounting the module mount, ensure that its entire length is suspended in the track.

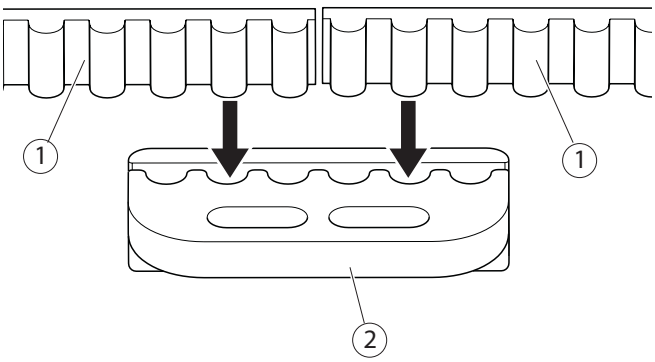


- Position the right module mount (3) in such a way that driver does not collide with the motor gear unit.
- Position the left module mount (2) in such a way that driver does not collide with the locking mechanism or the deflection pulley.
  See drive diagram for positions.

- Install the pre-mounted module mount left (1) and right (3) to the track (2) using 4 screws each (torque 3.5 Nm).

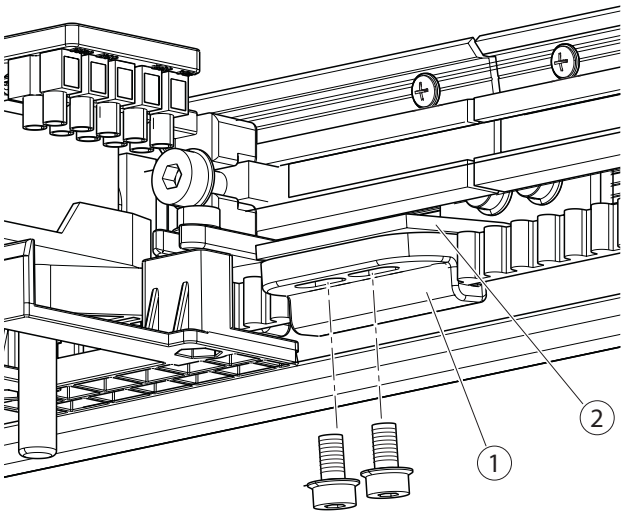
4.6.2 Fitting the toothed belt

- Thread the toothed belt on the motor pulley and deflection pulley, shorten if necessary.
- Insert tooth belt ends (1) into the toothed belt locking (2) (3 teeth per side).

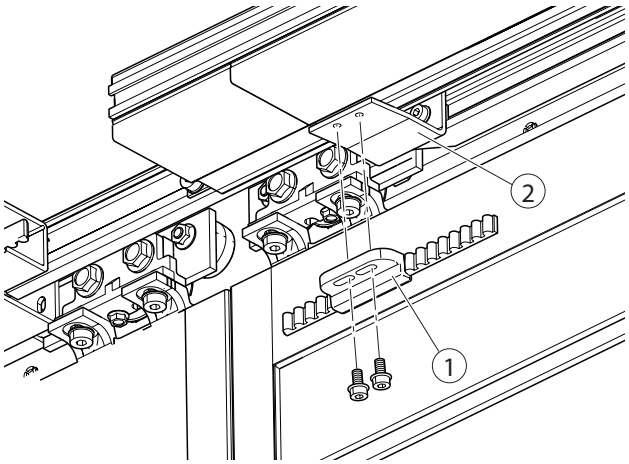


4.6.3 Fitting the toothed belt to the driver

1-leaf



Double leaf

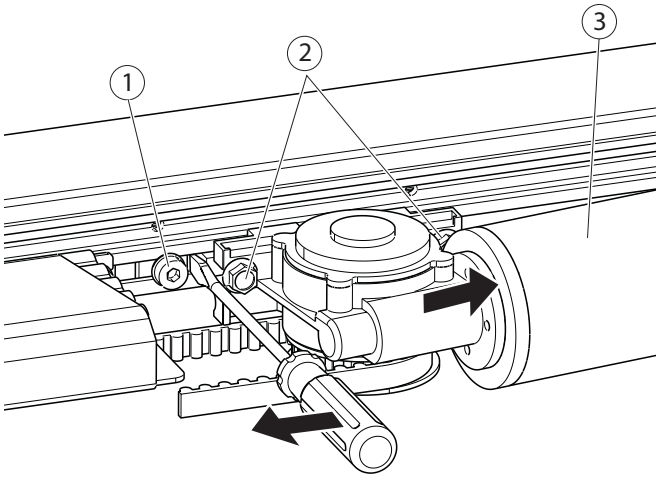


- Screw the toothed belt locking (1) to the short driver (2). Do **not** tighten the screws yet.

4.6.4 Tensioning the toothed belt

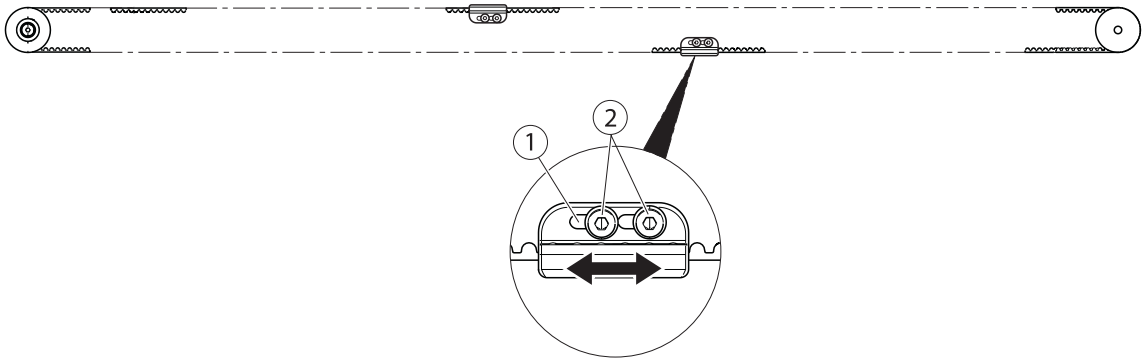
- The toothed belt must be pre-tensioned with 300 N ±35 N (see drive drawing).

- Undo 2 screws (2).
- Slide the motor gear unit (3) to the right by hand.
- Undo the screw (1) and move the sliding block in such a way that a slot-head screwdriver can be pushed between the sliding block and the motor gear unit.
- Tighten the screw (1) (torque 10 Nm).
- Push the slot-head screwdriver into the gap and lever it until the tooth belt is pre-tensioned.
- Tighten 2 screws (2) (torque 15 Nm).



4.6.5 Setting the closing position

Setting the closing position

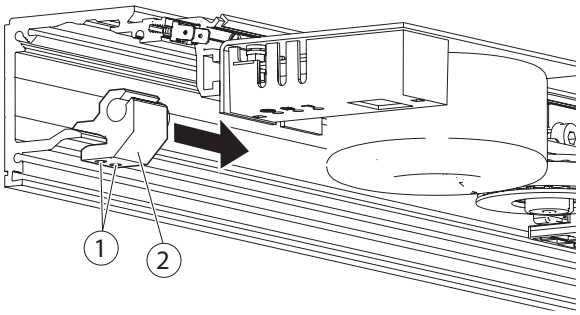


With 2-leaf systems:

- Slide the moving leaf to the closed position.
- Fit second toothed belt coupler on the long driver, do not tighten the screws (2) yet.
- Use the oblong holes (1) to finely adjust the position in the direction of displacement.
- Tighten the screws (2) on both toothed belt couplers when the exact closing position has been set (torque 6 Nm).

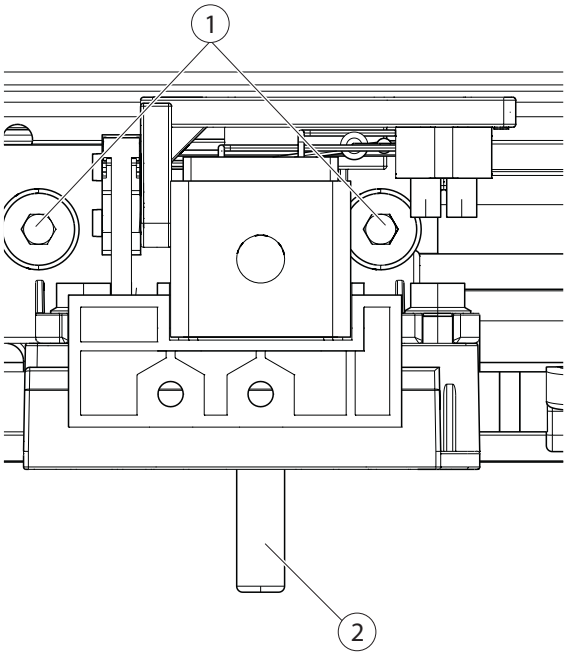
4.6.6 Setting the stop buffer

- Undo the setscrews (1) on the stop buffer (2).
- Slide the moving leaf to the open position.
- Slide the stop buffer on the roller carriages.
- Tighten the setscrews (1) using the Allen key (torque 3 Nm).



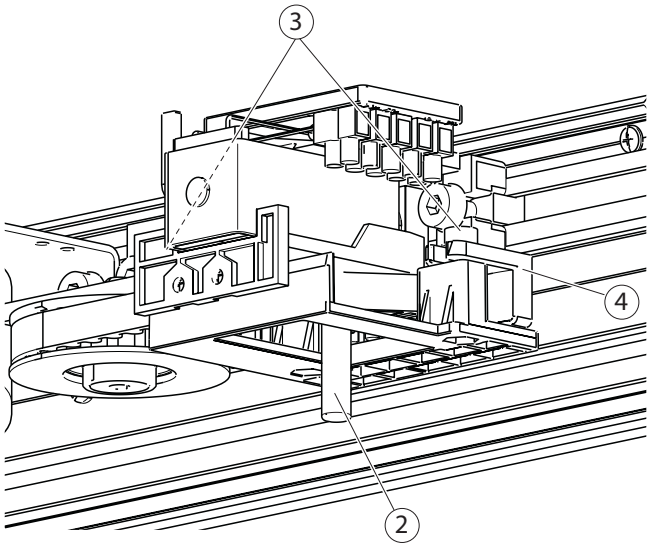
4.6.7 Position the toothed belt locking mechanism (Option)

- ▶ Close the moving leaves.
- ▶ Loosen the screws (1) at the toothed belt locking mechanism (Option).
- ▶ Align the locking device.



Following installation, the locking pin (2) must be positioned in the hole in the cover in such a way that the locking mechanism can be locked and unlocked.

- ▶ If necessary enlarge the drill hole.
- ▶ Tighten screws (1).
- ▶ Adjust the locking guide (4) so that the toothed belt neither touches nor has too much clearance. To do this, loosen 2 screws (3), move the locking guide (4) and re-tighten the screws (3) (torque 5 Nm).

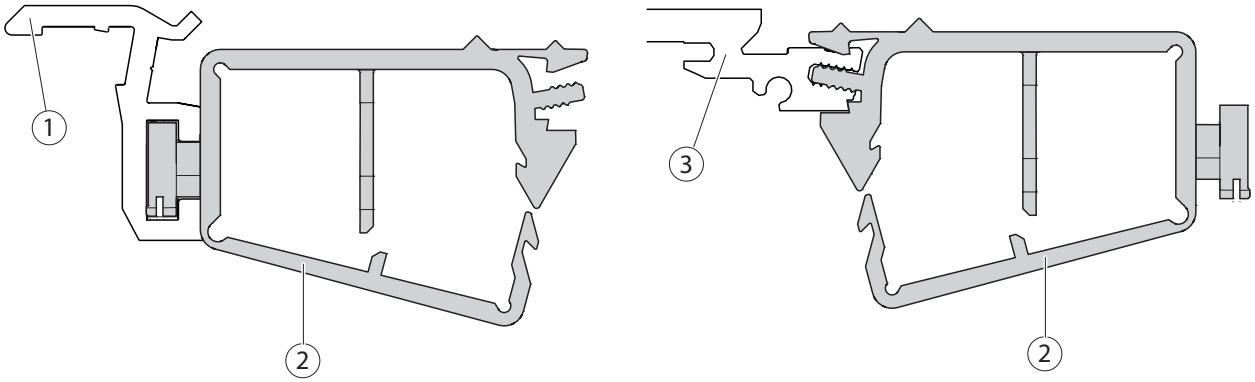


The driver must not come into contact with the toothed belt locking mechanism (Option) during operation.

- ▶ After the toothed belt has been installed, check (click) the switching points of the indicator switches of the toothed belt locking mechanism (Option). Adjust by bending the actuator levers, if necessary.

4.6.8 Installing cable guides

Cables can be cut!
▶ Lay cables in such a way that there are no cables near the moving parts.

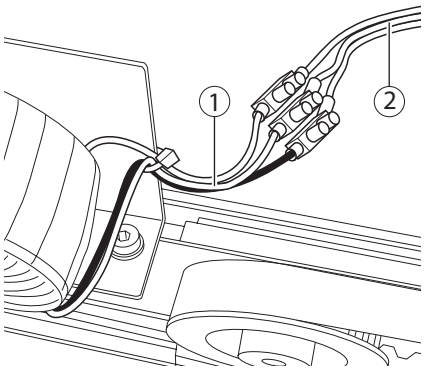


▶ Fix the cable guide (2) to the module mount (1) or track (3). Cable guide spacing approx. 200 mm.

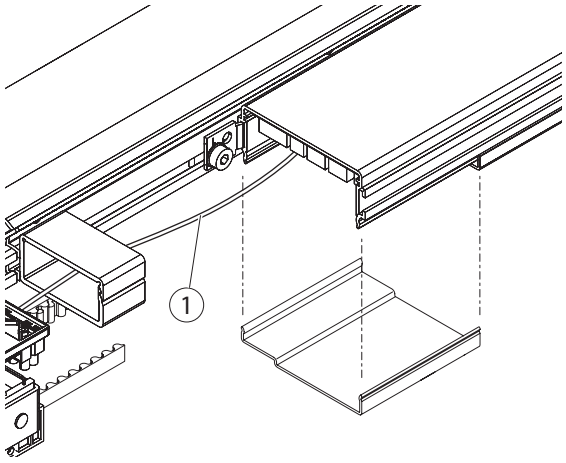
4.6.9 Connecting transformer and control unit

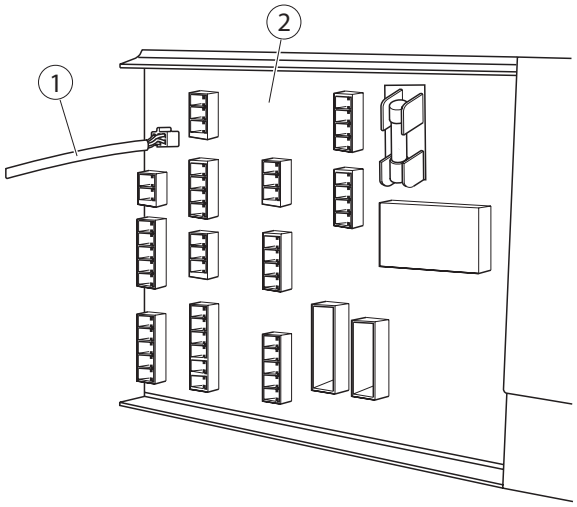
Note earthing connection!
Do not mix up cores!

▶ Connect transformer cable (2) to the cable (1) on the transformer.



4.6.10 Connecting the toothed belt locking mechanism (Option) and control unit

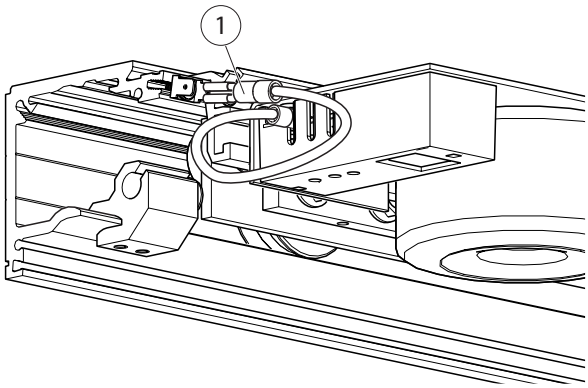




▶ Route the cable toothed belt locking mechanism (Option) (1) to the control unit (2) and plug it in.

4.7 Connecting earthing

▶ Connect the earthing cable (1) from the transformer to the device flat plug.

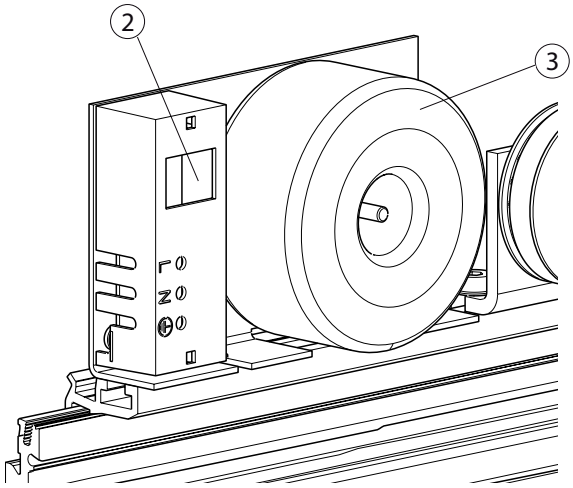


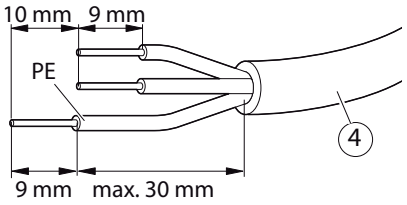
5 Production test and commissioning

5.1 Connecting the drive

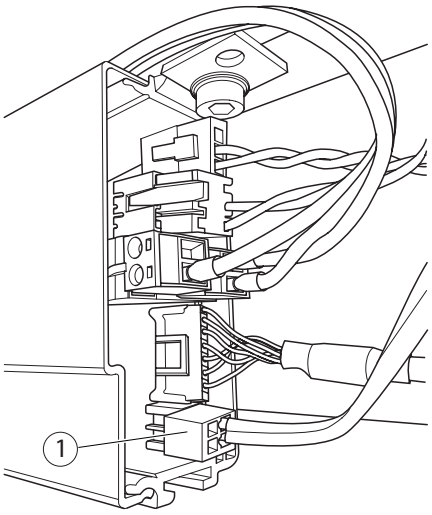
WARNING!
Risk of fatal injury due to electric shock!
- The electrical system (230 V) may only be connected and disconnected by a qualified electrician or a qualified electrician for specified tasks.
- Carry out mains connection and earth conductor test in accordance with VDE 0100 Part 600.

- Strip insulation from the power supply circuit (4) max. 40 mm.





- Strip the mains cable (4).
  - Insulation stripping length 40 mm
  - Stripping length 9 mm
  - PE line lead 10 mm
- Connect the drive to the 230 V mains network.
- Switch the main switch (2) on at the transformer (3).
- Insert the rechargeable battery connector (1) at the control unit.



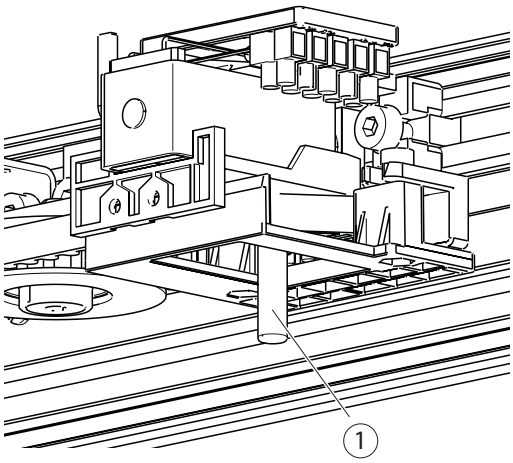
- Carry out the production test as described in the wiring diagram “Automatic sliding doors DCU1-NT/DCU1-2M-NT”.

5.2 Mounting the cover

WARNING!
Danger of injury!
People can be injured when handling the cover.
- ▶ Always make sure two people handle the drive cover.

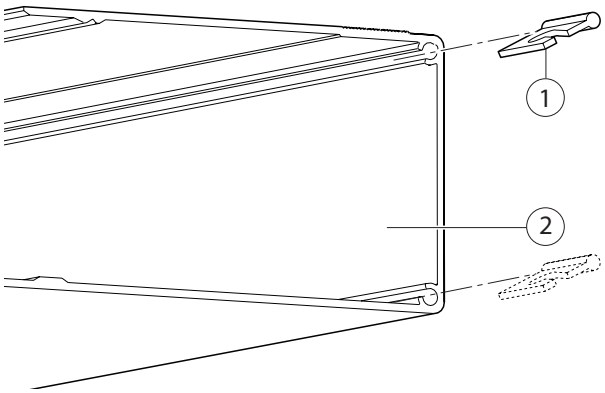
WARNING!
Danger of injury from falling cover!
- ▶ Make sure that the cover is attached along the entire length of the track.
- ▶ Let go of the drive cover carefully and check whether it has been hooked in safely.

- ▶ Unscrew the locking pin (1) from the tooth belt locking mechanism (Option).

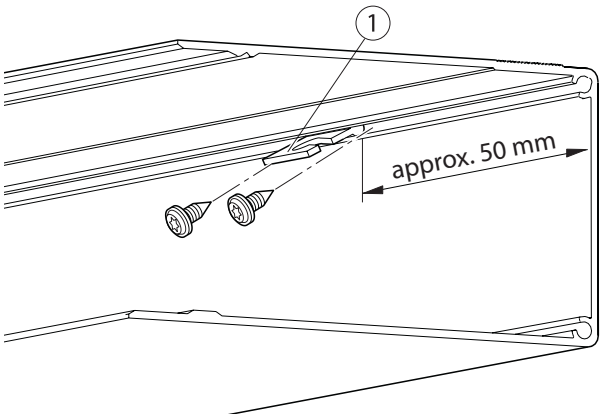


5.2.1 Mount the cover suspension piece

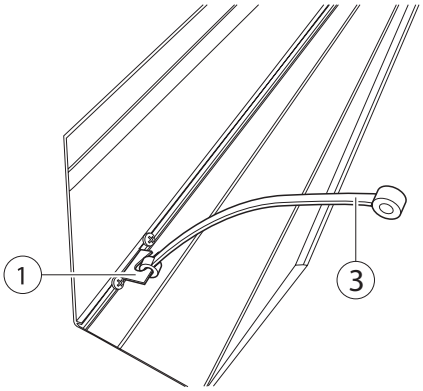
- ▶ Slide the cover suspension piece (1) into the upper or lower screw duct of the cover (2).



- ▶ Secure the cover suspension piece (1) on the right and left at a distance of approx. 50 mm from the end of the cover using 2 screws (tightening torque max. 1.5 Nm).

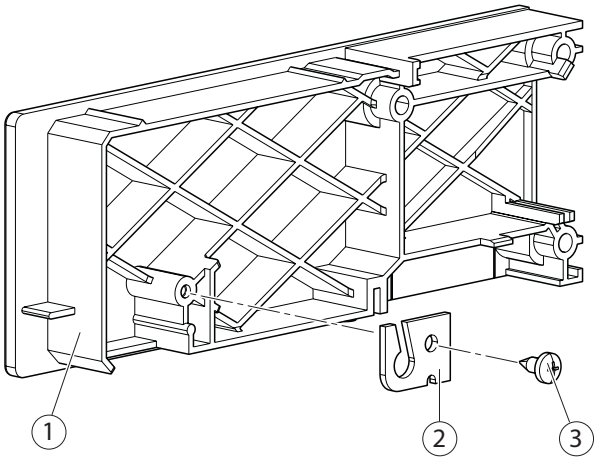


- Push the cords (rubber cables) (3) onto the mounted suspension pieces (1) of the cover.



5.2.2 Mounting the side panel suspension piece

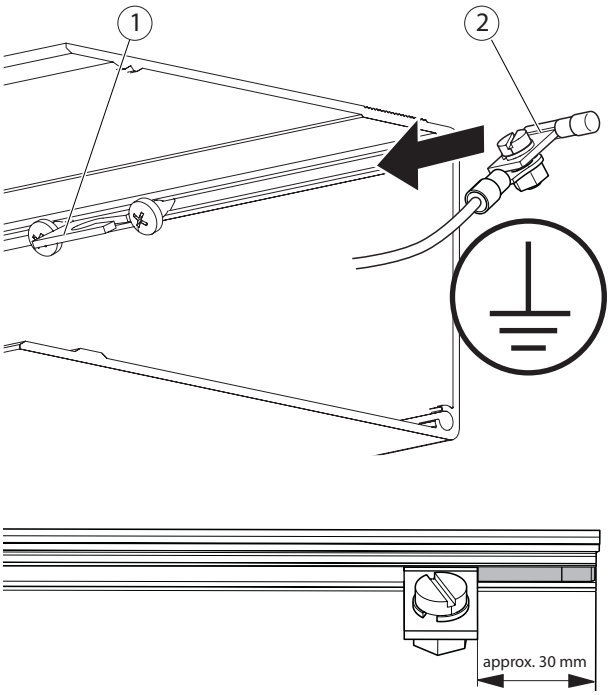
- Screw the side plate mounting bracket (2) with the pan head screw (3) into the side plates (1) on the left and right (tightening torque 1.5 Nm).



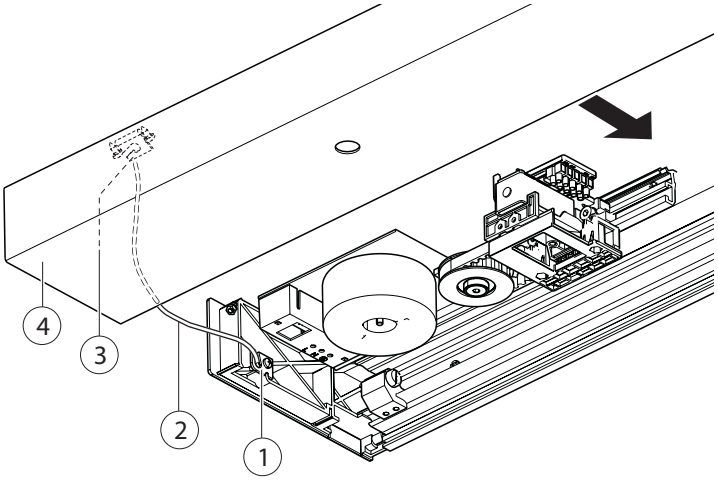
5.2.3 Fitting the cover earthing

- Before installing the cover earthing, check whether the cover suspension piece (1) has been fitted.

- Knock the locating pin for the cover earthing (2) on the side of the earthing approx. 30 mm into the upper screw duct.



5.2.4 Hook the cover catch rope in place

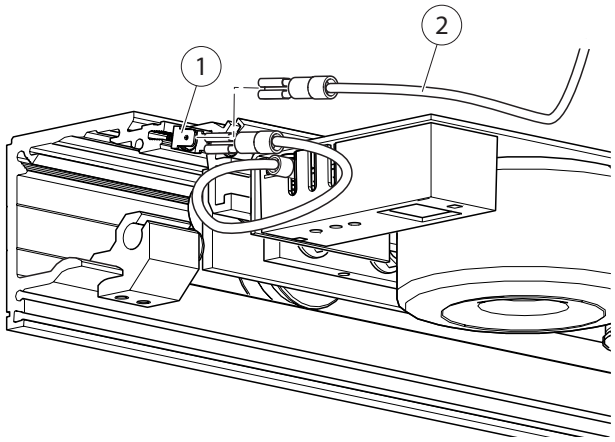


- Hook the cover catch rope (2) on the cover suspension piece (3) in the cover (4).
- Hook the cover catch rope (2) on the suspension piece (1) of the side panels.

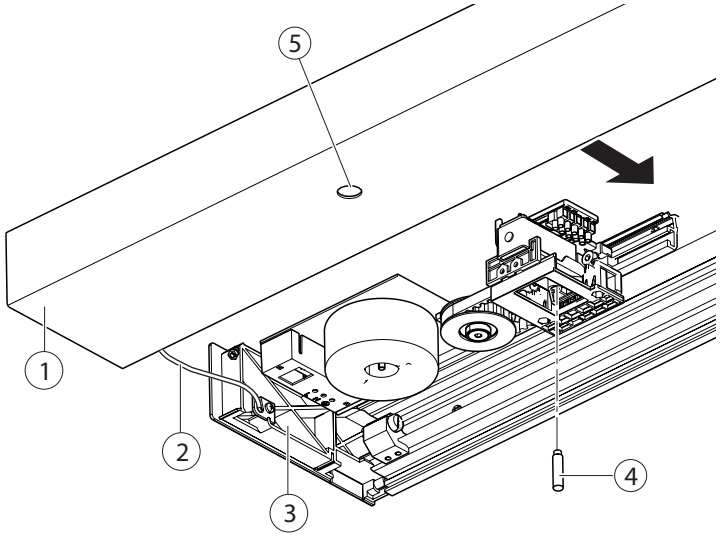
5.2.5 Connecting cover earthing

- Connect the earthing cable (2) of the cover using the plug-in connection of the device flat plug (1).

Depending on the length of the drive, a 2nd device flat plug must be fitted for hood earthing, in order to bridge the gap between the transformer earthing and the cover earthing.



5.2.6 Sliding the drive cover in place



- Slide the cover (1) onto the side panels (3) until it latches in and ensure that it is also seated correctly in the area of the module mounts and cable guides.

- Check the correct position of the cover catch ropes (2) and the earthing wire. There must not be any contact with moving parts.

- Turn the locking pin (4) into the tooth belt locking mechanism (Option).

Following installation the locking pin (4) must be positioned in the hole of the cover in such a way that the locking mechanism can be locked and unlocked.

- If necessary, enlarge the drill hole (5) in the cover.

5.3 Mounting the safety devices

For information about connection and parameter setting of the safety sensors, and the inputs and outputs and on commissioning, please refer to the wiring diagram.

- Install safety and activation equipment.
- Route cables properly in cable ducts.

For electrical installation, see wiring diagram.

5.4 Installing operating elements/switches/push buttons

For electrical installation, see wiring diagram.

- ▶ Install the operating elements in such a way that users cannot stand in hazardous areas.

5.5 Commissioning the door system

For information about connection and parameter setting of the safety sensors, and the inputs and outputs and on commissioning, please refer to the wiring diagram.

5.5.1 Creating a log book

- ▶ Carry out a safety analysis.
- ▶ Record installed options in the safety analysis for the operator.

5.6 Dismantling

WARNING!
Risk of fatal injury due to electric shock!
- ▶ The electrical system (230 V) may only be disconnected by a qualified electrician or a qualified electrician for specified tasks.

WARNING!
Danger of injury!
People can be injured when handling the cover.
- ▶ If the cover is more than 4 m long, always work in pairs when handling the cover.

CAUTION!
Danger of injury due to impact and crushing!
- ▶ Secure the moving leaves against unintentional movement.
- ▶ Disconnect the rechargeable battery.

Dismantling is done in the reverse order of installation.

6 Service and maintenance

6.1 Mechanical service

6.1.1 Checking tooth belt tension

- ▶ The toothed belt must not lift up from the motor gear or skip when braking and accelerating.
- ▶ If the tooth belt lifts or skips, set the tooth belt tension to 300 N ± 35 N.

6.1.2 Tensioning the toothed belt

See chapter 4.6.4.

6.2 Maintenance

CAUTION!
Danger of injury due to impact and crushing!
- ▶ Secure door leaves against accidental movement.
- ▶ Disconnect rechargeable battery.
- ▶ Disconnect mains voltage.

- Only genuine spare parts may be used.
- To ensure the functional ability, the wear parts of the sliding door system must be checked at every maintenance and replaced if necessary.

- The prescribed maintenance work on the sliding door system must be done by an expert:
  - at least once a year

  or
  - when the service indicator on the programme switch lights up (see wiring diagram).
- Depending on the configuration, not all the wear parts listed are present.
- ▶ Provide test documents and keep them up-to-date.

The following table shows the recommended replacement intervals for spare and wear parts. The information is based on the manufacturer's recommendations under normal conditions; depending on the operating environment and application, shorter intervals may be necessary.

Wear parts present	Manufacturer's recommended replacement interval
Rechargeable battery	2 years
Roller carriage/track and track-supporting rollers	1.5 million cycles or 5 years
Cleaning and sealing brushes in the door system	2 million cycles or 5 years
Sealing rubbers	2 million cycles or 5 years
Toothed belt	2 million cycles or 5 years
Floor guide	1 million cycles
Deflection pulleys	2 million cycles or 5 years
Rubber cable	200,000 cycles or 1 year
Deflector for rubber cable	200,000 cycles or 1 year
Cleaning brush at the roller carriage	1 year
End buffer	2 million cycles or 5 years
Wire rope telescopic door	In case of wear or damage
Locking device	In case of wear or damage
Spare part	**Manufacturer's recommended replacement interval**
Motor gear unit	2 million cycles or 5 years
Cover fixing	In the event of damage

After completing the maintenance work, always execute the learning function for the door.

Maintenance work

Testing facility	Action	Comments
Track	Check for cracks	▶ Replace the track
	Check for cleanliness	▶ Clean the track
Roller carriage	Check the abrasion of the track rollers	▶ Remove the abrasion
Floor guide area	Check for jarring-free function	▶ Clean floor guide area
Floor guide area (brushes)	Check for soiling and hardness	▶ Clean or replace
Moving leaf	Check for smooth movement	▶ See chapter 7.1.1
Toothed belt	Check for wear & tear and damage	▶ If necessary, replace the tooth belt(see Chapter 5.5)
	Check tension	▶ If necessary, tighten the tooth belt (see Chapter 5.5.1)
	Check tooth belt locking mechanism (Option) for damage	▶ Re-position the tooth belt locking mechanism (Option) if necessary (see Chapter 4.5.3)
Toothed belt locking mechanism (Option)	Check function	▶ Re-position the tooth belt locking mechanism (Option) (see Chapter 4.5.3)
Screws	Check for tight fit	▶ Tighten the screws if (refer to drive drawing for torques)
Assembly groups and peripherals	Check for correct function	▶ Replace assembly group
Cables	Check for damage and correct fastening	▶ Fasten or replace cables

7 Troubleshooting

DANGER!
Risk of fatal injury due to electric shock!
- The electrical system (230 V/115 V) may only be connected and disconnected by a qualified electrician or a qualified electrician for specified tasks.
- Carry out mains connection and protective earth conductor test in accordance with VDE 0100 Part 600.

CAUTION!
Danger of injury with opened drive!
Hair, clothing, cables, etc. can be drawn in by rotating parts.
- Watch out for rotating parts during work on the opened drive.

CAUTION!
Danger of injury due to impact and crushing!
- Secure door leaves against accidental movement.
- Disconnect rechargeable battery.

7.1 Mechanical faults

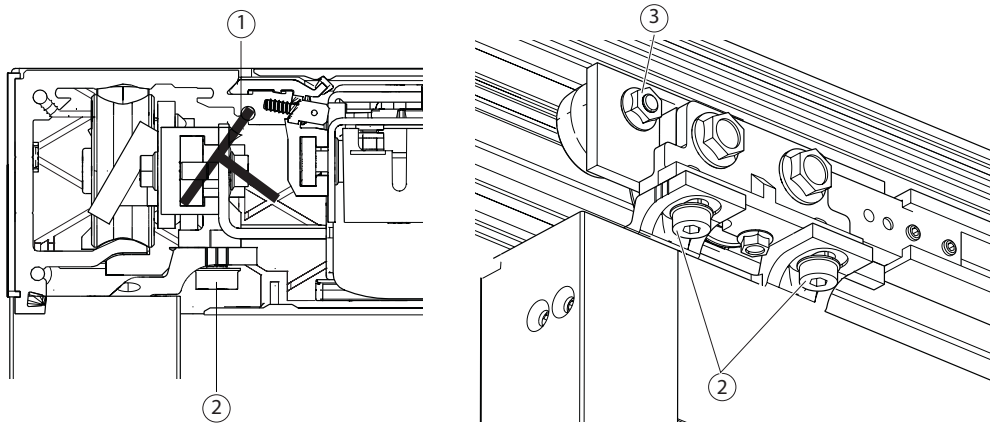
Cause	Remedy
Track bent	▶ Replace the track ▶ Check the installation surface
Moving leaf stiff	▶ Check the moving leaf (see Chapter 7.1.1)
Roller carriage jammed or defective, high abrasion on the track rollers	▶ Replace the track roller (see Chapter 7.2), clean the track
Toothed belt damaged	▶ Replace the toothed belt

7.1.1 Check moving leaf

- Disconnect the moving leaf from the tooth belt using the toothed belt locking.
- Move the moving leaf and check for ease of movement.

If moving leaves move easily:
- Check the motor gear unit and deflection pulley and replace if necessary.

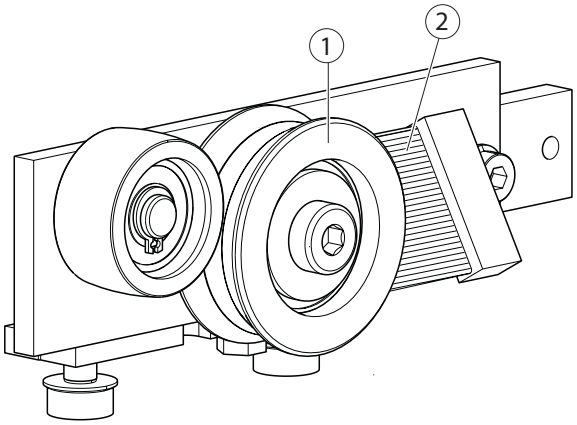
7.2 Replacing roller carriage



- Loosen the driver from the toothed belt locking.
- Separate the driver from the roller carriage.
- Use the moving leaf installation aid (1) to secure the roller carriage against tilting.
- Loosen the suspension bolts (2) on the roller carriage.
- Take the moving leaf out.
- Undo the hexagon screw (3) on the counter-roller.
- Remove the moving leaf installation aid (1) and replace the track roller or roller carriage.
- Reinstall the roller carriage in the reverse order.
  Torque for suspension bolts (2): 10 Nm.

7.3 Replace brushes on the roller carriage

- If necessary, remove the roller carriage (see Chapter 7.2).
- Pull brushes (2) out of roller carriage.
- Clean the rollers (1) of the roller carriage and insert new brush (2).
- Reinstall roller carriage in reverse order.



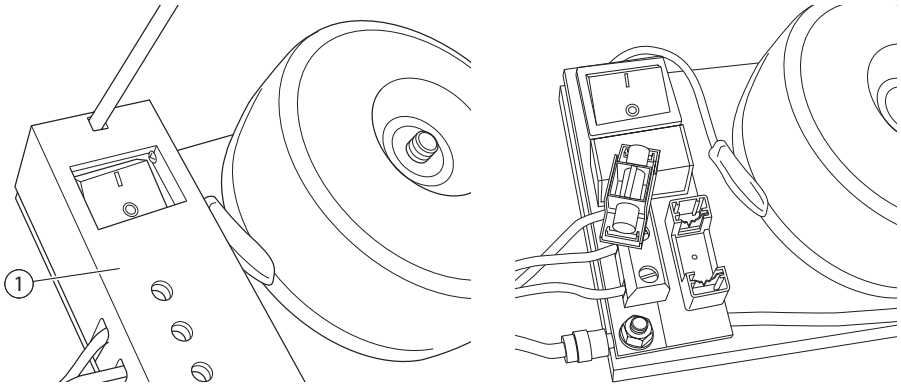
7.4 Electrical faults

- For read-out instructions and a list of fault messages, see wiring diagram.

7.4.1 Replacing fuse in transformer

DANGER!
Risk of fatal injury due to electric shock!
If the main switch on the transformer is activated, the fuse is still energised since it is upstream of the main switch.
The mains voltage 230/115 V must be disconnected from the mains upstream of the fuse.
- Disconnect the door system from the 230/115 V mains supply on site before removing the PCB cover (1) and secure against being switched back on again.

- You will find the fuse value on the wiring diagram.



- Insert a suitable screwdriver into the opening of the PCB cover (1) above the switch.
- Carefully press the end wall of the PCB cover upward with the tip of the screwdriver. This releases the snap catch.
- Remove the PCB cover (1).
- Pull the fuse holder forwards and off and replace the defective fuse.
- Attach the fuse holder.

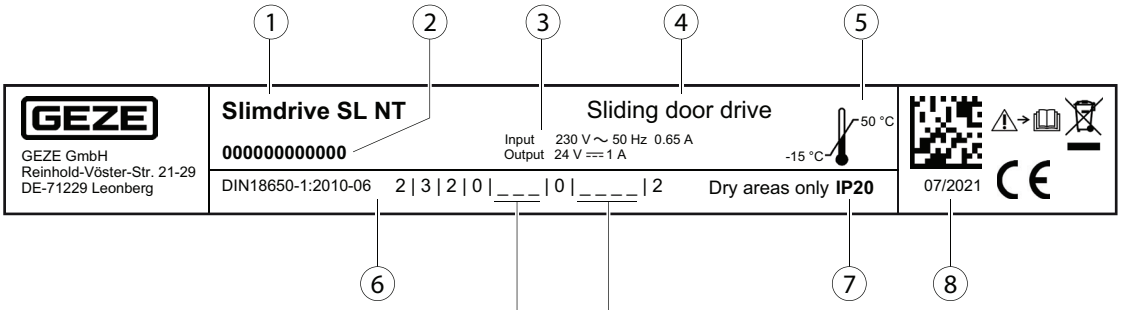
- Do not trap the cable when setting the cover in place.

- Set the PCB cover (1) in place and clip on.

8 Drive nameplate

Only relevant in Germany and in the scope of validity of DIN 18650-1:2010-06.

▶ Supplement classification code on the nameplate.



Safety devices on the drive (fifth character)
A distinction is made between three classes in terms of safety requirements:
1: Power limitation;
2: Connection to external safety systems approved by the drive manufacturer;
3. Low-energy mode.

Note: You may select multiple classes.

Safety at automatic door system – version/installation (seventh character)
A distinction is made between five classes of safety devices on door leaves:
0: No safety devices;
1: With sufficiently dimensioned safety distances
2: With protection against crushing, shearing and drawing-in of fingers;
3: With built-in turning fitting unit;
4: With sensor-controlled protective devices.

Note: You may select multiple classes.

1 Product name
2 Serial number
3 Electr. data
4 Machine category
5 Ambient temperature
6 Only relevant in Germany and within the scope of validity of DIN 18650-1:2010-06: Classification code
7 IP rating
8 Date of manufacture

9 Inspection of the installed door system

9.1 Protective measures to prevent and protect from hazardous areas

- ▶ Check protective earth connection to all metal parts that can be touched.
- ▶ Perform a safety analysis (risk analysis).
- ▶ Check the function of safety sensors and movement detectors.

9.2 Installation checklist Slimdrive SL NT

No.	Test	in	On page	Com-pleted
1	All cables laid correctly for the installation of the Slimdrive SL NT?	–	–	
2	Track mounted?	4.3	9	
3	Angled floor guide/continuous floor guide installed?	4.4	10	
4	Moving leaf installed?	4.5	12	
5	Drive components installed?	4.6.1	18	
6	Tooth belt mounted?	4.6.2	18	
7	Closing position with 2-leaf Door system adjusted?	4.6.5	20	
8	Left and right module mounts connected to the power supply?	5.1	24	
9	Toothed belt locking mechanism (Option) and control unit connected?	4.6.10	23	
10	Safety devices mounted?	5.3	28	
11	Switches/push buttons installed and correctly connected?	5.4	29	
12	Programme switch installed?	5.4	29	
13	Transformer earthing installed?	4.7	23	
14	Earthing connections established?	5.2.5	28	
14	230/115 V connection established?	5.1	24	
15	Cover earthing connected?	5.2.5	28	
16	Cover catch mounted?	5.2	25	
17	Safety analysis carried out?	–	–	
18	Deviations of the door system checked in accordance with safety analysis?	–	–	
19	Are all components mounted in accordance with the following instructions:	–	–	
20	▫ Pre-mounting instructions Slimdrive SL NT	–	–	
21	▫ installation instructions Slimdrive SL NT – girder section and fixed panel	–	–	
22	▫ Installation instructions protective leaf for sliding door drives	–	–	
23	▫ Installation instructions safety leaf	–	–	
24	Drive identification plate supplemented? Notes: ▫ Only relevant for Germany and in the scope of validity of DIN 18650. ▫ The identification plate may only be attached to the drive when installation has been checked for correct implementation using the checklist in accordance with GEZE specifications.	8	34	