

Revo.PRIME revolving door

Original operating instructions

EN User handbook

201007-00

GEZE

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Supplied system

3-leaf variant	<input type="checkbox"/>	3	Break-out function	<input type="checkbox"/>	BO
4-leaf variant	<input type="checkbox"/>	4	Burglar-resistant	<input type="checkbox"/>	RC2
Manual revolving door	<input type="checkbox"/>	M	Underfloor drive	<input type="checkbox"/>	UFA
Manual revolving door with speed limiter	<input type="checkbox"/>	D	Manual night-time closer	<input type="checkbox"/>	NV
With automatic positioning device	<input type="checkbox"/>	P	Automatic night-time closer	<input type="checkbox"/>	ANV
Automatic revolving door	<input type="checkbox"/>	A	Inside-running manual night-time closer	<input type="checkbox"/>	INV
All-glass	<input type="checkbox"/>	GG	Internal automatic night-time closer	<input type="checkbox"/>	IANV


Example: Revo.PRIME A3 NV BO = Revo.PRIME revolving door automatic drive with 3 leaves, with manual night-time closer and break-out function

1 About these instructions

Warning notices




Warning notices are used in these instructions to warn you of personal injury and property damage.

- ▶ Always read and observe these warning notices.
- ▶ Observe all measures marked with the warning symbol and warning word.

Warning symbol	Warning word	Meaning
	CAUTION	Danger to persons. Non-compliance can result in minor to medium injuries.


Further symbols and illustrations

Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means "important note"; Information about avoiding property damage
	means "additional Information" The user's attention should be drawn to important addition information. There is no danger to persons or property, but it is particularly useful to read the additional information carefully.
	Symbol for an action: This means you have to do something. ▶ If there are several actions to be taken, keep to the given order.

1.1 Product liability

In compliance with the liability of the manufacturer for his 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 his statutory liability.

-  To ensure personal safety, it is important to follow these safety instructions. These instructions must be kept.

2 Fundamental safety notes

2.1 Instructions for safe operation

- Failure to observe the instructions in this handbook may result in damage to the equipment or personal injury.
- The door may only be used for the movement of persons.
- This appliance 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.
However, this does not generally exclude such persons from using the door on which the drive is installed.
- Children shall not play with the appliance.
- Cleaning and maintenance shall not be carried out by children without supervision.
- The door system must be unplugged from the mains connection during maintenance and cleaning work.
- No persons may pass through the door system during repair or maintenance work.

2.2 Safety notes

Carefully read and abide by this user handbook before commissioning the door. Always observe the following safety notes:

- In accordance with Machine Directive 2006/42/EC and EN 16005, a safety analysis must be performed and the door system identified in accordance with CE Identification Directive 93/68/EEC before the door system is commissioned.
- ▶ Make sure that the relevant accident prevention regulations and standard EN 16005 are observed.
- ▶ Observe any relevant additional national and European guidelines.
- ▶ Operating, maintenance and repair conditions specified by GEZE must be observed.
- Maintenance and repair work may only be performed by properly trained personnel authorised by GEZE. The protective conductor must be connected.
- Only trained, GEZE-authorised personnel may open the cover.
- GEZE shall assume no liability for damage caused by unauthorised changes to the system.
- The door system is solely suitable for use in entrances and interior areas of pedestrian traffic in commercial plants and public areas.
- The operator is responsible for safe operation of the system. If safety devices are misaligned, causing them to no longer fulfil their intended purpose, further operation is no longer permissible. Inform the service technician immediately.
- If there are any glass breakages (ceiling, leaf or drum wall), put the door out of use immediately and use suitable measures to prevent anyone entering the area (e.g. barrier tape). Notify a service technician.
- If possible, the glass on the drum wall and side-hung leaf must be labelled at eye level through appropriate measures, to prevent persons from running into it.
- The door may stop unexpectedly if a safety function is triggered. It is possible that persons may walk into a stopped door leaf and hit it.
- When switching over to night mode of operation, the operator must ensure that no persons have been trapped in the door system.

2.3 Further technical safety notes

- The flooring used under the area of the side-hung leaf on a revolving door may have a maximum unevenness of 4 mm. Gaps or slits in the floor guide slits in the flooring must not be wider than 4 mm.
- To ensure user safety, sufficient ambient lighting must be available.
- The setting for the revolving speed of the door system must be adjusted to the expected users of the system. It may be necessary to reduce the speed.
- Persons may stand in front of and inside the door system only to pass from one area to another area.
- In general, no one may stand on the roof of the door system.

3 Description

3.1 Intended use

The door system is solely suitable for use in entrances and interior areas of pedestrian traffic in commercial plants and public areas. Make sure the door system is used for this purpose during operation.

Heed the following points when using the door system:

- ▶ Make sure that the electrically powered turnstile is not accelerated manually.
- ▶ Adapt the walking speed of the door system.
- ▶ Make sure that the opening is large enough for entering and leaving the door system.
- ▶ Do not stand still in the door system or change directions.
- ▶ Ensure sufficient distance to the drum wall and the side-hung leaf.
- ▶ Do not stand still in the direct vicinity of the door entrance or exit.
- ▶ Do not enter the door carrying bulky objects or pushing a trolley (e.g. shopping trolley).
- ▶ Make sure children are always accompanied when they enter the door system.
- ▶ Keep children at play away from the door system.
- ▶ Keep animals on a short lead or carry them.

The door system must be used for the intended purpose so that the revolving door safety sensors do not unexpectedly slow or stop the door system in operation.



In certain conditions, changing weather conditions (wind, snow, rain, bright solar radiation) can cause brief interruptions or stop of the door system. This is not a fault, rather it is to guarantee user safety.

Deactivation of the escape and rescue route function

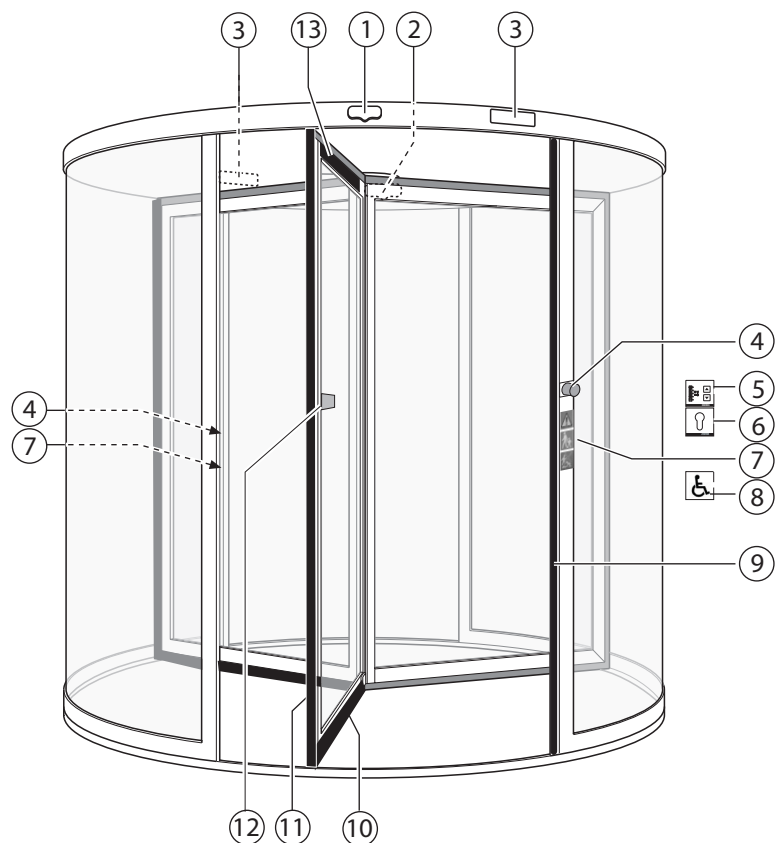
- If the operator switches to "NIGHT" mode of operation and locks the turnstile or closes a night-time closer, the revolving door will no longer be available as an escape route.
- The "NIGHT" mode of operation is not a defined mode of operation according to the guidelines on automatic sliding doors on rescue routes (AutSchR).
- Only authorised persons may change the mode of operation with the key switch at the programme switch.
- The operator may only switch to "NIGHT" if the emergency exit route is no longer used, i.e. people are no longer in the building or an escape and rescue chart indicates other escape routes for this time period.

3.2 Set-up

i The operating elements are arranged differently depending on the situation. For technical reasons, we cannot show all of the possibilities here. The door system shown is only a schematic diagram.

System parts and options

- 1 Movement detector inside
- 2 Movement detector outside
- 3 Leading mullion safety sensor
- 4 Emergency stop switch inside and outside
- 5 Keypad programme switch
- 6 Key switch (optional)
- 7 Warning notice inside and outside
- 8 Push pad (optional)
- 9 Post safety
- 10 Heel protection strip
- 11 Vertical safety contact strip
- 12 Break-out emergency exit sign (optional)
- 13 Mobile sensor strip (optional)



Pos.	Explanation
1 + 2	Pulse generator to activate the door rotation for the set number of rotations.
3	Safety sensor on the mounted profile of the door system for monitoring the area directly in front of the right-hand mullion of the door system. When a door leaf approaches the post, door system stop is triggered if these are activated (e.g. if there is someone standing next to the mullion).
4	The switch is located on the right-hand mullion profile of the door system and triggers an emergency stop when activated. The drive is released and the door leaves can turn freely. The switch must be snapped back into place to begin the rotational movement once again.
5	Keypad programme switch for changing mode of operation and for displaying error codes on the door system.
6	Optional; key switch to protect the programme switch against unauthorised operation.
7	A sticker on the right-hand mullion of the door system indicates that children must be supervised near the door.
8	Optional; when the push button is pressed and the door system is activated with a pulse generator (1+2), the door revolves for 1 minute at a low speed. Then the door system accelerates again to normal speed. Note: Only possible in the modes of operation automatic, permanently revolving and exit only.

Pos.	Explanation
9	Rubber strip on the right mullion of the door system. When the rubber strip is pressed, this triggers a stop of the door system. After the rubber strip is released, the drive restarts independently after a set pause time.
10	Rubber strip on the bottom leaf profile. When the rubber strip is pressed, this triggers a stop of the door system. After the rubber strip is released, the drive restarts independently after a set pause time.
11	Rubber strip on the exterior vertical door leaf profile. When the rubber strip is pressed, this triggers a stop of the door system. After the rubber strip is released, the drive restarts independently after a set pause time.
12	Optional; sticker on the door leaf when using doors with break-out door fitting on escape and rescue routes.
13	Optional; use on revolving doors with a diameter over 3000 mm. The safety sensor reduces the revolving speed when the door leaf approaches a person or triggers a door leaf stop.

3.3 GEZE door variants

Door variant	Special feature
Manual doors	Doors without safety function, exclusively for manual operation
Manual doors with speed limiter	The max. revolving speed of the revolving door is limited by a safety mechanism in the door.
Manual doors with automatic positioning device	Once it has been passed, the manual door is moved motor-driven to its initial/end position at very low speed. The programme switch must be set to the manual mode of operation.
Fully automatic revolving doors	Activation via movement detector. Electromechanical drive with two pre-adjustable speeds. The revolving movement starts automatically.

3.4 GEZE building designs

Building design	Special feature
GG variant (all-glass)	The drum walls do not have a frame at the top or bottom and the door has a glass roof.
GD variant (glass roof)	The drum walls have a frame and the door has a glass roof.
BO variant (break-out)	The side-hung leaves can be broken out in any position by pressing the outer leaf edge. When a leaf is broken out, the drive is switched off immediately. The door leaves can be engaged again by hand. Then the door continues revolving until it reaches its end position.
RC2 variant	Burglar-resistant hardware system tested in accordance with DIN EN 1627 - 1630. Special version of the night-time closer, drum walls and roof.

4 Operation

4.1 Door in normal operation

i GEZE revolving doors can be operated with special control elements, which deviate from the behaviour described here. Please ask the service technician responsible for information on the special control elements which are installed.

During normal door operation the door revolves as long as persons are within the range of influence of the sensors.

What happens?	What does the door do?
A contact sensor (push button, switch or movement detector) is triggered.	The door begins to revolve and revolves for the number of sectors set.
The safety sensor (mobile safeguarding device) triggers because an object has been detected between the leaves.	The door slows down to a standstill if necessary.
Safety sensor (protection of the leading mullion) is triggered when the door is revolving.	As soon as the passing leaf comes nearer than the preset danger distance, the door slows down to a standstill.
Safety sensor on the side element (post safety sensor) is triggered.	The door slows down to a standstill.
Safety sensors on the leaf (draw-in protection) touch an obstruction and are triggered.	The door slows down to a standstill.

4.2 Additional door functions

In addition to the keypad programme switch, various additional functions control the door manually via switches or push buttons.

Which switch/push button?	What does the switch/push button do?
Emergency stop switch	The door brakes to a standstill and can be revolved freely.
Key switch of the keypad programme switch	If a key switch is connected to the keypad programme switch, the operation of the keypad programme switch can be locked or released with it.
"Mechanical contact" (e.g. outside key switch)	The door unlocks and revolves in accordance with the number of sectors set and lets the person pass.
Activation button	The door revolves at full speed
Push pad (optional)	The door slows and revolves at reduced speed. It moves slowly to a standstill after activation.
Key switch for night-time closer	When the key switch is activated, the night-time closer sliding door will open or close. ► Ensure that the night-time closer is either completely open or completely closed.

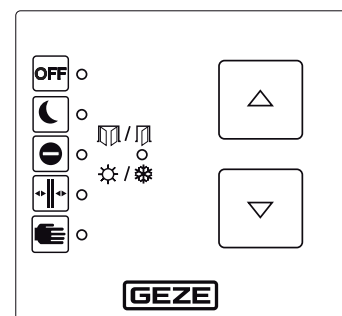
4.3 Selecting the operating status

The system operating status is selected and the corresponding programme is displayed at the keypad programme switch.

The operating status is changed by pushing the ▲ or ▼ buttons.




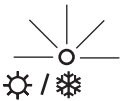




The current operating status is indicated by permanent illumination of the corresponding LED. The TPS-KDT indicates the actual operating status, even if the operating status is changed via another operating status input (e.g. additionally fitted switches or BMS system (building management system)).

Keypad programme switch TPS-KDT



The keypad programme switch is accessible for everyone. Therefore we recommend the use of an additional key switch in order to block the keypad programme switch. The keypad programme switch is only enabled while the key switch is operated.

Changing the mode of operation using the TPS can also be protected by setting parameters for a password to prevent the operating mode being changed by unauthorised persons. The password can only be set and changed by a service technician. The password for operating the keypad programme switch (TPS-KDT) has 2 digits (01 ... 99). The arrow keys are used for entry. The factory setting is 00 (released). The password is confirmed by pressing both arrow keys at the same time.

Operating status	TPS-KDT	Explanatory notes
Automatic		<p>All the connected pulse generators are active in the "Automatic" operating status. Revolving speed and time delay can be set. When activated by a movement detector the door accelerates to the set automatic speed, continues to revolve at this speed and stops in the end position after a preset number of sectors.</p> <p>Optional: Activation of the automatic revolving movement is possible through manually pushing the door leaf (Push & Go function).</p> <p>The following special functions are possible in the "Automatic" operating status:</p> <p>Summer mode The turnstile stands still without activation. When activated for the first time, the revolving door accelerates to automatic speed. After that the revolving door revolves at the automatic speed for a number of sectors that can be set and then slows to the run-on speed. The revolving door revolves at the slow speed for a set time delay and then stops in the next end position. This operating status is particularly suitable for creating a welcoming atmosphere. If the time delay is set to endless, the revolving door revolves permanently.</p> <p>Winter mode The turnstile stands still without activation. When activated, the revolving door accelerates to the automatic speed. After that the revolving door revolves at the automatic speed for a number of sectors that can be set and then stops in the end position.</p> <p>In "Automatic" operating status, alteration between summer and winter mode can be affected by simultaneously pressing the buttons  and .</p> <p>If winter mode is selected, the LED "Winter" is illuminated in the TPS-KDT.</p> <div style="text-align: center;">   </div> <p>Push pad (optional) A push button with a wheelchair symbol is located on the door. When this push button is activated, the door slows and revolves at the set slow speed. This speed is specified for the set number of sectors. This speed is specified for 1 minute from activation. Setting is also possible in the modes of operation permanently revolving and exit only.</p>
Exit only		In the "exit only" operating status the door is only activated via the internal movement detector, then revolves for a set number of sectors at automatic speed and then stops again in the end position. At standstill, the door is locked with the disc brake.
Manual		<p>The turnstile can be rotated freely in manual operation. If no further functions are set, the "Manual" operating status is identical with the "Off" operating status. The following options can be set:</p> <ul style="list-style-type: none"> ▫ An automatic positioning device returns the door to the end position at slow speed after passing has been completed. ▫ Safety devices can be activated. ▫ The speed limiter can be activated. ▫ Specified mode of operation for revolving doors with positioning device.
Night mode		<p>The following options for locking can be built into the system in order to lock it in the "Night mode" operating status:</p> <p>No locking mechanism If the revolving door does not have a locking mechanism, it can be revolved manually in the "Night mode" operating status.</p>

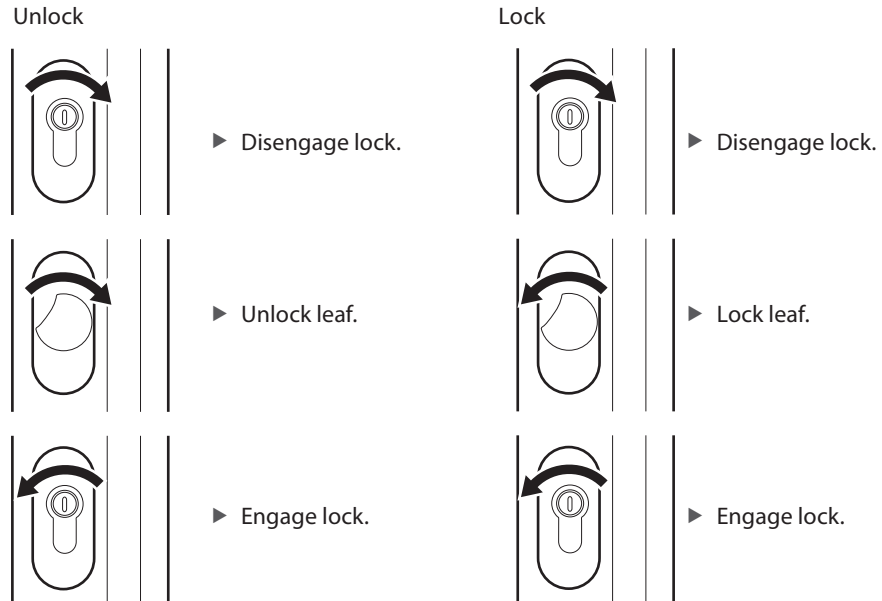
Operating status	TPS-KDT	Explanatory notes
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Night mode



Manual locking mechanism

A rod locking can be used as a manual locking element. A contact used to monitor the locking operating status is installed.



i The leaf locking mechanism may also function as mirror-inverted for the all-glass version (AG).

To lock the door manually:

- ▶ Select the "Night mode" operating status at the keypad programme switch. The Night LED flashes on the TPS-KDT. The door revolves automatically to the locking position.
- ▶ Lock the locking mechanism manually. The Night LED switches to continuous light.

Unlocking the door manually:

- ▶ Unlock the locking mechanism manually. The Night LED of the TPS-KDT switches to flashing.
- ▶ Set the desired operating status on the TPS-KDT. The LED indicates the operating status.

Locking mechanism with disc brake

A disc brake can be used to lock the revolving door. When the mains voltage is interrupted, the brake is opened. The revolving door can then be revolved manually. It is not suitable for a revolving door with break-out function.

Locking the door:

- ▶ Select the "Night mode" operating status on the TPS-KDT. The Night LED flashes on the TPS-KDT. The door revolves automatically to the locking position. The disc brake is activated. The Night LED switches to continuous light.

Unlocking the door:

- ▶ Select the desired operating status on the TPS-KDT. The disc brake is released. The new operating status is active and is displayed on the TPS-KDT.

Operating status	TPS-KDT	Explanatory notes
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Night mode



Electromagnetic locking mechanism

One or two electromagnetic locks can be used to lock the revolving door. A locked door remains locked in the event of a power failure. An unlocked door remains unlocked in the event of a power failure. In the case of a power failure the lock can be unlocked and locked by means of a built-in rechargeable battery.

- ▶ Select the "Night mode" operating status at the keypad programme switch. The door moves to the end position and locks automatically.

Access via mechanical contact:

- ▶ Activate the mechanical contact.

The door revolves once.

- ▶ In order to lock the door hold the authorised contact sensor authorised until the door has locked automatically.

Locking in the event of a power failure

Locking with night-time closer

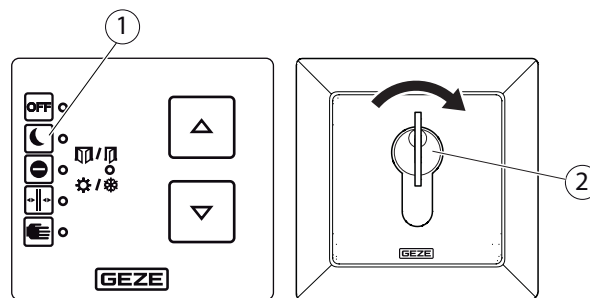
The revolving door can be locked with a single leaf or double leaf night-time closer (manual or automatic).

- Manual night-time closer:

The procedure is identical to manual locking.

- Automatic night-time closer - dead man operation:

Lock



- ▶ Select the "Night" (1) operating status on the TPS-KDT.

The door revolves automatically to the locking position.

- ▶ In order to lock the night-time closer, activate the key switch SCT (2) and hold it until the night-time closer is closed and locked.

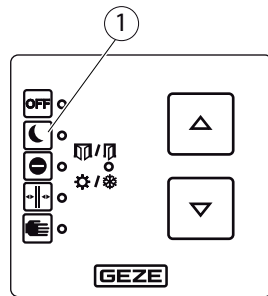
Unlock

- ▶ To open the night-time closer, activate the key switch SCT) and hold it until the night-time closer is open.

- ▶ Select the desired operating status on the TPS-KDT.

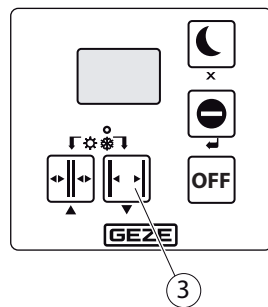
Operating status	TPS-KDT	Explanatory notes
		<ul style="list-style-type: none"> Automatic night-time closer - automatic operation
		<p>! When activation is via an external signal (e.g. building management system (BMS)), the door may not lock in night mode of operation. People may become locked in!</p>
		<p>i Function of the automatic night-time closer is also given in the event of a power failure.</p>

Lock



- ▶ Select the "Night" (1) operating status on the TPS-KDT. The door revolves automatically to the locking position. The night-time closer closes and locks.

Unlock



- ▶ Select the "Hold open DO" (3) operating status on the DPS. The night-time closer opens automatically. After the night-time closer has opened completely, the TPS-KDT automatically switches to the "Automatic" mode of operation. The door performs a self-test (approx. 30 s) and can be used after that. Safety sensors can be connected to the night-time closer in order to protect closing and/or opening, depending on the user group.

Off		▶ In the "Off" operating status the motor gear unit is switched off and the door can be revolved manually freely. This operating status is especially suitable for maintenance and cleaning of the door. All activation devices are switched off.
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4.4 Locking/unlocking (optional)

For a description of locking/unlocking the door, see chapter 4.3 "Selecting the operating status", Night mode operating status.

- !** If a revolving door suitable for escape and rescue routes is used, the operator must ensure that the door really is unlocked after it has been unlocked.

4.5 Behaviour in an emergency



CAUTION!

Danger of injury caused by crushing!

The door leaf may only be snapped into place by trained personnel.

- ▶ When re-engaging the break-out leaf, ensure that your fingers do not become stuck on the inner leaf edge.



If a revolving door suitable for escape and rescue routes is used, the operator must ensure that the door really is unlocked after it has been unlocked.

The door can be stopped via the emergency stop switch and moved manually.

Revolving doors with break-out system (BO) can be opened in any position by pressing the outer leaf edge (< 220 N), clearing a suitable escape route. The drive is switched off immediately after the leaf has been broken out and the turnstile can be revolved manually.

5 No mains voltage



- ▶ If the mains voltage fails (e.g. power failure), check the on-site safety fuse first.

State	Reaction
No mains voltage	In "Night mode" operating status, the door remains locked as long as a disc brake was not used. In other operating statuses the door coasts to standstill and stops.
Mains voltage available again	The door starts again in the previously set operating status.
Door leaves revolve if there is no active mains voltage	The door can be revolved manually providing it was not locked.

6 Fault messages on the programme switch TPS-KDT

If a fault occurs in the system, a fault code is displayed every 3 s (several LEDs) for 2 s, alternating with the operating status (one LED). Up to 20 different fault messages can be displayed.

► Read the fault message, record it and notify the service technician.

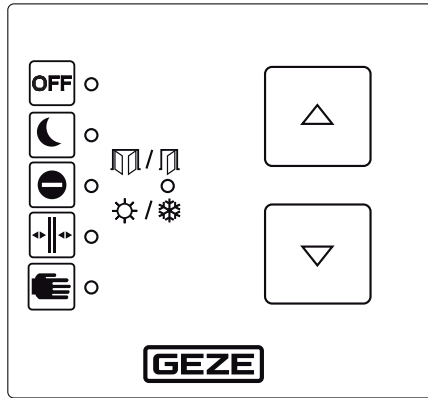
TPS display					Designation	Ser. error no. (see error display ST220)
OFF	☾	⊖	⚡	☰		
○	○	○	○	○	No operating voltage	
○	○	○	●	●	Drive too hot	45, 46, 47, 48
○	○	●	○	●	INIT sensor	8
○	○	●	●	○	Post safety	21, sub-error 1
○	○	●	●	●	Motor gear unit, rotary encoder, initialisation sensor	10, 13, 25, 27
○	●	○	●	○	Emergency stop	21, sub-error 3
○	●	○	●	●	Draw-in protection	21, sub-error 2
○	●	●	○	○	Rechargeable battery	61
○	●	●	○	●	42 V power supply	5
○	●	●	●	○	Mobile safeguarding device	19
●	○	○	○	●	Sabotage	32
●	○	○	●	○	Protection of the leading mullion	20
●	○	○	●	●	Disc brake	29, 78
●	○	●	○	○	Break-out	21, sub-error 4
●	○	●	○	●	24 V internal (Fuse F1)	1
●	○	●	●	○	24 V external	4
●	●	○	○	○	Power failure	3
●	●	○	○	●	Control unit	60, 70
●	●	○	●	○	Keypad programme switch	34
●	●	●	○	○	Locking mechanism	15, 16, 17, 18

In addition, the following states are displayed:

- Not taught Winter LED flashes continuously (1 sec. on, 3 sec. off): Error no. 6, 7
- Maintenance Winter LED flashes continuously (0.5 sec. on, 0.5 sec. off): Error no. 80
- Error Mode of operation displayed for 3 sec., error code for 2 sec.
- Block active Current mode of operation LED flashes once if a key is pressed on the TPS and if the mode of operation cannot be switched (key switch not operated or there is a permanent signal at the input DO, AU, LS or NA).
- For all errors not shown, flashing code 01001 appears.
 - Use ST220 for detailed error analysis.

7 What to do if ...?

Problem	Cause	Remedy
Door revolves very slowly	Floor area soiled	<ul style="list-style-type: none"> ▶ Interrupt power supply. ▶ Clean the affected floor area.
	Obstruction in travel path	▶ Remove obstruction and check door manually for smooth movement.
	Mobile safeguarding device is interrupted or misaligned	<ul style="list-style-type: none"> ▶ Clean safety sensor. ▶ Check the setting of the optical sensor strips.
	Scraping on floor, other mechanical impediment	▶ Revolve the door manually, remove visible obstacles. If no obstacles are visible, notify a service technician.
Door does not revolve	Movement detector misaligned or defective	<ul style="list-style-type: none"> ▶ Check movement detector. ▶ Notify a service technician.
	"Night mode", "Off" operating status	▶ Select another operating status.
	"Exit only" operating status	▶ Select "Automatic" operating status.
	Door is locked manually	▶ Unlock the door.
	No mains voltage	▶ See chapter 5, "No mains voltage".
	Emergency stop switch pressed	▶ Unlock emergency stop switch.
	Door leaf has been broken out (BO variant)	▶ Engage the door leaf again by hand and wait for the door system to start up.
Door only revolves manually	"Off" operating status	▶ Select another operating status.
	No mains voltage	▶ See chapter 5, "No mains voltage".
	Emergency stop switch pressed	▶ Unlock emergency stop switch.
Door always revolves only a bit further	Obstruction in travel path	<ul style="list-style-type: none"> ▶ Remove the obstacle. ▶ Check whether a safety sensor is active. ▶ Notify a service technician. ▶ Change to the "Manual" operating status and check the movement force manually.
Door does not unlock or lock (in case of automatic locking)	Locking mechanism defective	<ul style="list-style-type: none"> ▶ Check locking mechanism in the "Night mode" operating status. ▶ Unlock the door manually and notify a service technician.
	Key switch not activated	▶ Activate the key switch, repeat the unlocking process.
Programme switch cannot be operated	Programme switch is blocked	▶ Activate key switch.
	Programme switch is defective	▶ Request servicing.
Fault messages displayed at programme switch	Fault in the door system	▶ See Section 6, "Fault messages on the programme switch TPS-KDT".
Glass break (door leaf/drum wall)	Impact on pane	<ul style="list-style-type: none"> ▶ Put the door out of operation immediately and take suitable measures to prevent anyone entering the door (e.g. barrier tape). ▶ Notify a service technician.

Carry out a reset/delete the fault memory

- ▶ Use key or to change to the mode of operation OFF (see chapter 4.3 “Selecting the operating status”).
- ▶ Press keys and simultaneously for 1 s.
The fault memory with the current faults is deleted.
- ▶ Select the desired new mode of operation.

8 Cleaning and maintenance

8.1 Maintenance



The operator must ensure that the system is working perfectly.

In accordance with EN 16005, a regular check must be completed of automatic revolving door systems at least once annually in accordance with manufacturer specifications. The results must be documented in a log book and stored for at least 1 year. The check must be completed by a person who has been trained and certified by GEZE.

Daily:

- ▶ Check the safety devices (such as emergency switches) in the area of the door system, for instance by pressing the emergency stop switch or activating a safety edge. The system must stop immediately.
- ▶ Subject the door system to a visual inspection for loose parts, sharp edges and glass breakage.
- ▶ Check that there is sufficient lighting in the passage area.
- ▶ Check the floor condition (obstructions, danger of slipping, unevenness, dirt deposits).
- ▶ Check the system for unusual noises (such as squeaking bearings). Decommission and block the door if there are unusual noises. Notify a service technician.

Weekly:

- ▶ Clean the door system, see chapter 8.2, “Cleaning”.

If the “Winter” LED on the TPS-KDT keypad programme switch flashes continuously, maintenance is required.

GEZE offers maintenance contracts with the following services:

- Check the leaf suspension.
- Check the fastening elements for a tight fit.
- Performance of miscellaneous adjustment work.
- Performance of operational checks.

8.2 Cleaning



- ▶ Unplug the system from the power grid before beginning cleaning work. The mains circuit breaker must be equipped with a locking option.

What is to be cleaned	How is it to be cleaned
Floor guide, night-time closer	<ul style="list-style-type: none"> ▶ Remove the soiling and check that the door moves smoothly. ▶ Keep free of snow and ice in winter.
Safety sensor	▶ Wipe with moist cloth.
Glass surfaces	▶ Wipe with a cold vinegar-water mixture or glass cleaner; then dry.
Stainless surfaces	▶ Wipe with non-scratching cloth.
Coated surfaces	▶ Wipe with water and soap.
Anodised surfaces	▶ Wipe with non-alkaline potassium soap (pH value 5.5...7).
Keypad programme switch	▶ Wipe with damp cloth. Do not use a cleaning agent.
Brushes on the side-hung leaves	▶ Clean weekly with the vacuum cleaner.
Entrance mat	<ul style="list-style-type: none"> ▶ Clean/vacuum clean at regular intervals. ▶ Lift up the entrance mat and vacuum clean under it.

8.3 Inspection by an expert

In compliance with standard EN 16005, the safe state of power operated doors must be checked before initial commissioning and at least once a year by an expert.

GEZE offers the following services:

Inspection and operational checks of all safety and control equipment in compliance with the requirements in the log book for power-operated windows, doors and gates; Sliding doors and sliding gates ZH 1/580.2 edition.

9 Disposal

The door system is made up of materials that should be sent for recycling.

- ▶ Sort the individual components in accordance with the type of material. The parts can be disposed of by a recycling company.

Batteries and rechargeable batteries contain pollutants and heavy metals.

- ▶ Do not dispose of batteries and rechargeable batteries with household waste.
- ▶ Observe national legal regulations.



Information regarding the German Battery Directive:

(Applicable in Germany and in all other member states of the European Union as well as in other European countries, together with the countries' own provisions for a separate waste battery collection system.)



In accordance with the German Battery Directive, we are obliged to inform you of the following in connection with the sale of batteries or rechargeable batteries respectively in connection with the delivery of devices containing batteries or rechargeable batteries: Rechargeable batteries and batteries must not be disposed of with household waste. Disposal with household waste is expressly forbidden according to the German Battery Directive. As the final consumer, you are bound by law to return waste batteries and rechargeable batteries. Please return waste batteries and rechargeable batteries to a communal collection point or retailer.

Following use, you may return any batteries or rechargeable batteries received from us by post. The address is: GEZE GmbH, Incoming Goods, Reinhold-Vöster-Str. 21-29, 71229 Leonberg/Germany.

Batteries which contain harmful substances are identified by a symbol of a crossed-out rubbish bin.

The chemical designation of the harmful substance is specified underneath the rubbish-bin symbol: Cd for Cadmium, Pb for lead, Hg for mercury.

10 Technical data

Revolving speed	Ø ≤ 3.0 m: 0.2 to max. 1 m/s Ø > 3.0 m: 0.2 to max. 0.75 m/s
Supply voltage	200-240 V AC (190-264 V AC)
Frequency	50/60 Hz (47-63 Hz)
Protection class	I
Capacity rating	330 W, max. 600 W
Mains connection	Fixed connection (installation cable)
Primary fuse	6.3 A slow-blow
Secondary voltage motor gear unit	42 V DC, SELV
Secondary voltage for external components	24 V DC (±5%), SELV
Output current (for external components)	max. 2.5 A
Secondary fuse (for external components)	2.5 A slow-blow, 5×20 mm
Temperature range	-15 °C ... +50 °C
Storage temperature	-20 °C ... +80 °C
Humidity	5-85% non-condensing
Altitude above sea level	max. 3000 m
IP rating	<ul style="list-style-type: none"> ▫ Control unit ceiling IP20 ▫ Control unit underfloor IP66 ▫ Motor gear unit IP54
Noise level	<49 dB (A)
Door service life	over 500,000 cycles



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These original operating instructions are also available over the GEZE customer portal or at www.geze.com.

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