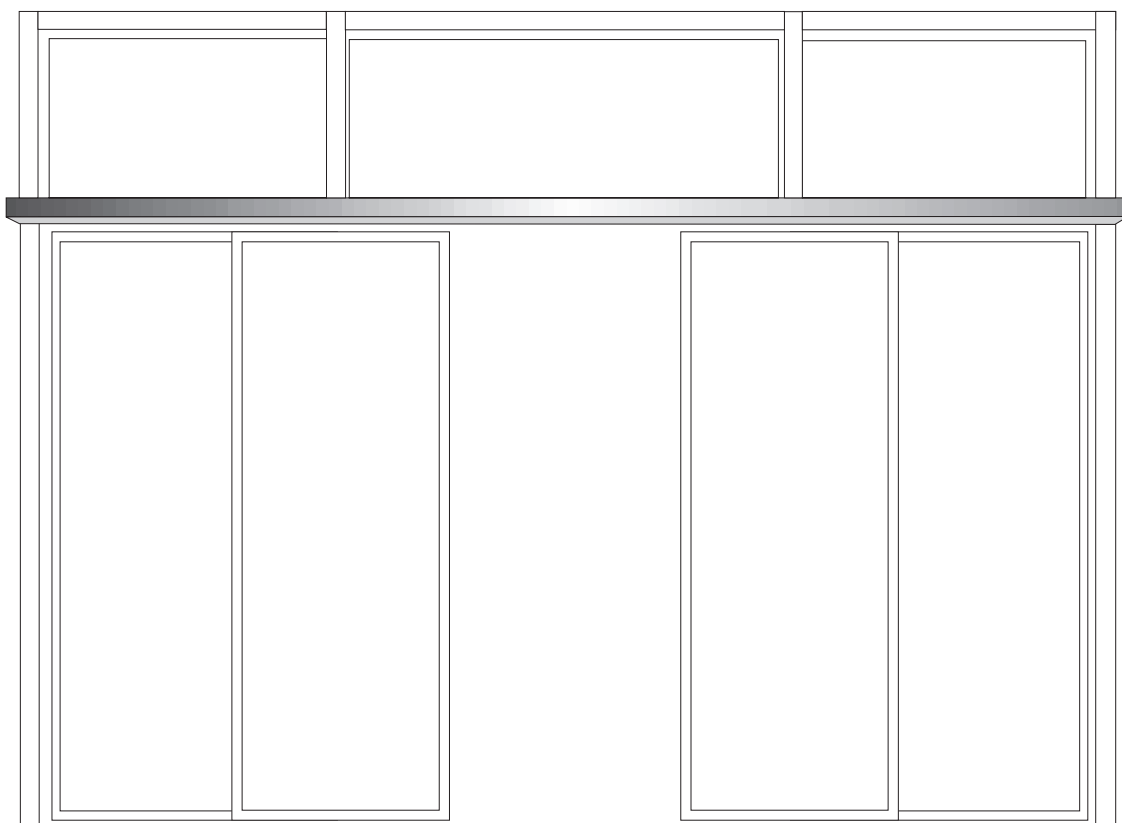




GEZE MCRdrive ECdrive H

Translation of the original
operating instructions
EN User manual

168222
2025-12_04

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Symbols and illustrations

Warning notices

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

- ▶ Always read and follow these warnings.
- ▶ Follow all the measures labelled with the warning symbol and warning word.

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

Further symbols and illustrations

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

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

Product liability

In accordance with the manufacturer's liability for their products as defined in the German "Produkthaftungsgesetz" (Product Liability Act), the information contained in this user manual (product information and proper use, misuse, product performance, product maintenance, obligations to provide information and instructions) is to be noted and followed. Failure to comply releases the manufacturer from its statutory liability.

Revisions and validity

Version 04: SW Version 5.1, valid from year of manufacture 2025.

More detailed information

Information for commissioning and maintenance can be found in the wiring diagram and in the installation instructions for the various automatic sliding doors.

1 General safety notes

1.1 For the user

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

- Operating, maintenance and repair conditions specified by GEZE must be observed.
- The commissioning, mandatory installation, maintenance and repair work must be performed by experts authorised by GEZE.
- Any relevant additional country-specific and European directives must also be observed.
- Use in dry rooms only.
- The intervals for safety-related testing are to be complied with based on the country-specific regulations.
- The connection to the mains voltage must be made by a professional electrician.
- No changes may be made to the system without prior agreement from GEZE.
- GEZE shall assume no liability for damage caused by unauthorised changes to the system.
- The building operator is responsible for safe operation of the system.
- Have a service technician check the safe operation of the system at regular intervals.
- If safety devices are adjusted and therefore no longer fulfil their intended purpose, further operation is no longer permitted. The service technician must be informed without delay.
- Make sure that the safety stickers are attached visibly to any glass leaves and are in a legible state.
- Protect the programme switch against unauthorised access.
- Danger of injury by sharp edges on the drive when removing the cover
- Danger of injury by parts hanging down
- 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.
- Children must not play with the appliance.
- Cleaning and user maintenance must not be carried out by children without supervision.

1.2 Intended use

- The GEZE MCRdrive and ECdrive H automatic door systems are not intended for the following applications:
 - for use in escape and rescue routes
 - for use at fire barriers
- The GEZE MCRdrive and ECdrive H automatic door systems are designed for use in medical areas.
- The GEZE MCRdrive automatic door system is only intended for use by persons who have been instructed in the function of the lowering door leaves and in operating the door handle.

The sliding door systems differ in respective of the following functions and features:

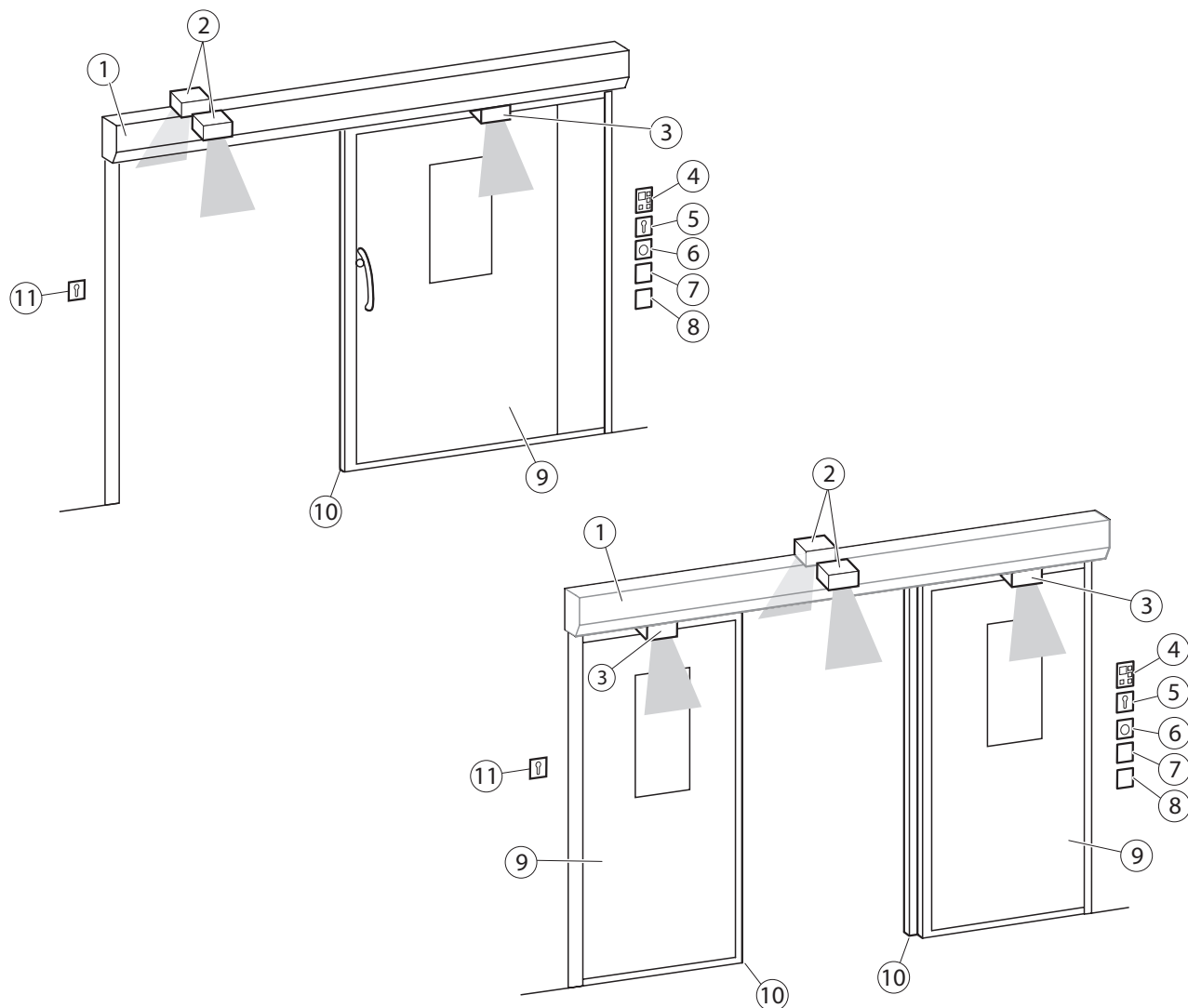
	GEZE MCRdrive	ECdrive H
Linear door leaf movement	✓	✓
Sealed closing leaf in closed position	✓	–
Hermetic closing movement: Lowering and pressing the door leaf against the wall and finished floor level	✓	–
1-leaf design	✓	✓
2-leaf design	–	✓
Sound proofing	(Option)	–

2 Description

2.1 Set-up



The door system shown is only a schematic diagram.
For technical reasons, we cannot show all of the possibilities here.
The operating elements can be arranged individually.



- | | | | |
|---|---|----|--|
| 1 | Drive | 7 | Nurse opening push button (reduced opening width) |
| 2 | Combined detectors | 8 | Bed opening push button (full opening width) |
| 3 | Safety sensor opening | 9 | Door leaf |
| 4 | Programme switch | 10 | Floor guide |
| 5 | Key switch (Option) for enabling the programme switch | 11 | Authorised activation device (KB) for authorised opening (e.g. key switch) |
| 6 | Cleaning opening push button | | |

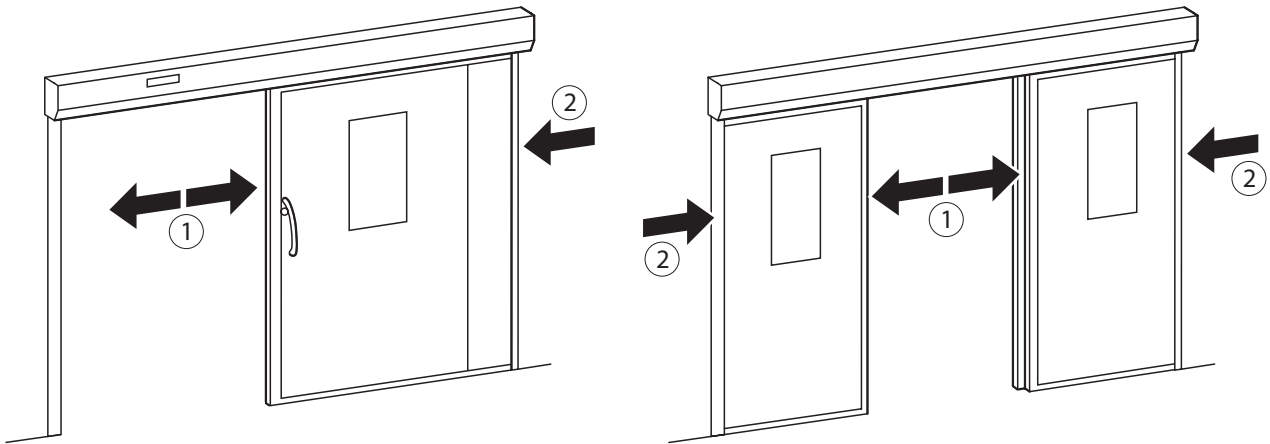
2.2 General information about safety and danger zones



Danger zones are caused at automatic doors due to the movement of the door leaves.

These danger zones can be secured through appropriate safety measures such as observing safety distances and mechanical or electrical protection.

To this end, a safety analysis must be carried out by the installer of the system for each door before commissioning. Use the "GEZE safety analysis for automatic sliding doors" document for this.



1 Danger zone between the main closing edge and opposite closing edge (danger of collision and crushing)

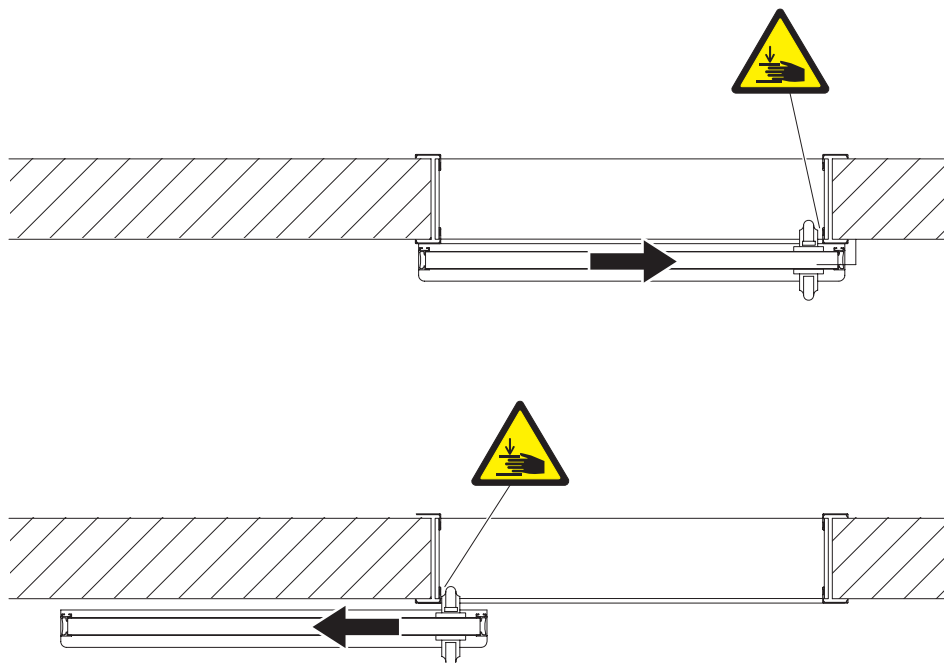
2 Danger zone between the secondary closing edge and opposite closing edge / wall (danger of collision and crushing)

2.3 Safety information and hazardous areas for GEZE MCRdrive and ECdrive H

For door leaves, which are fitted with a handle in order to open the doors using the Push & Go function, there are the following additional dangers and restrictions:

- Risk of collision and/or crushing between handle and wall.
- Danger of catching clothing on the handle.

Danger zones on the handle



2.4 Safety information and hazardous areas for GEZE MCRdrive

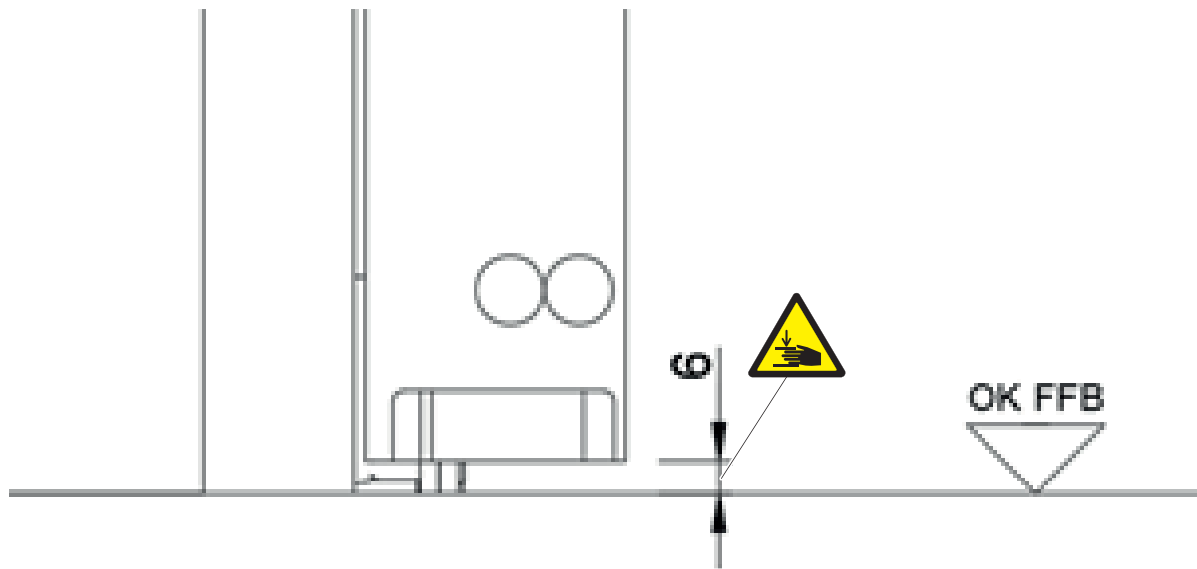
For door leaves, which are fitted with a rotating handle in order to lift the doors when opening and using the Push & Go function, there are the following additional dangers and restrictions:

- Risk of collision and/or crushing between handle and wall or handle and door.
- Risk of collision and/or crushing from a person on the opposite handle.
- Danger of catching clothing on the handle.

When closing the door leaf, the leaf lowers towards the floor in order to create a seal.

This results in an additional risk of crushing / residual risk between the door leaf and floor.

Danger zone between door leaf and floor when the door leaf lowers



3 Operation

3.1 Normal operation



GEZE sliding doors can be operated with special control elements, which can induce deviating behaviour. Ask the service technician responsible for information on any special control elements which may be installed.

3.1.1 Standard functions (automatic mode of operation)

In normal door operation, the door is automatically opened and closed.

What happens?	What does the door do?
A contact sensor (push button, switch or movement detector) is triggered.	Door opens and closes again.
Closing safety sensor is interrupted at an opened door.	Door remains open.
Closing safety sensor is interrupted at a closed door.	Door remains closed.
Closing safety sensor is interrupted while the door is closing.	Door opens again.
Opening safety sensor is interrupted at a closed door.	Door remains closed.
Opening safety sensor is interrupted while the door is opening.	Door stops.
A person moves toward the opened door and a movement detector is activated.	Door remains open.
A person moves toward the closing door and a movement detector is activated.	Door opens again.
Door contacts an obstruction when opening.	Door stops, waits and attempts to move to the open position at a reduced speed three times. Then the door closes again.
Door hits an obstacle when closing.	Door reopens immediately, waits the hold-open time and then closes at a reduced speed.

3.1.2 Push & Go function

One of two Push & Go options can be selected.

Push & Go with automatic closing

What happens?	What does the door do?
Door is pushed open.	Door automatically continues the opening procedure to the learned reduced opening width. After the set hold-open time, the door closes automatically.
Open doors are pushed shut before the end of the hold-open time.	Door automatically continues the closing procedure to the closed position.

Push & Go manual

What happens?	What does the door do?
Door is pushed open.	Door automatically continues the opening procedure to the learned reduced opening width and remains open.
Door is pushed closed.	Door continues the closing process automatically until the closed position.



- The functions via the contact sensor for automatic opening are active in Push & Go mode of operation.
- The safety functions with the Push & Go function are identical to the standard function.

3.1.3 Special functions

The special functions of the door system are triggered using special switches.

Switches / push buttons	What does the switch / push button do?
Mechanical contact bed opening	Door opens to the full opening width and closes again after the hold-open time has expired.
Push button nurse opening (activation device KI/KA)	Door opens to the reduced opening width and closes again after the hold-open time has expired.
Cleaning opening push button (input PE1)	Door opens to the full opening width and stays open. When activated again, the door closes again.
Close push button (input PE2)	Door closes automatically. If a door has been manually opened using Push & Go after a manual opening and has not been closed after passing through, this push button can be used to close the door from a central location.
Key switches of the programme switch	If a key switch is connected to the programme switch, the operation of the programme switch can be locked or released with it
Emergency stop switch (currentless)	Door opens and performs the function selected for battery operation: ▫ Open and switch off ▫ Close and switch off ▫ Normal operation for maximum 30 minutes or 30 open/close cycles, then open and switch off ▫ Normal operation for maximum 30 minutes or 30 open/close cycles, then close and switch off
Emergency stop switch	Door stops and can be moved freely by hand.

3.2 Select mode of operation

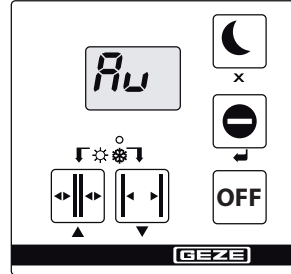
The programme switches are accessible for everyone without a key switch.

As required, access to the programme switch can be restricted to authorised persons by an additional key switch or by assigning a password (ST220).

3.2.1 Display programme switch (DPS)

The modes of operation can be set at the display programme switch by pressing the respective keys. Operation by unauthorised persons can be blocked as follows:

- Connection of an additional key switch
- or
- Assignment of a password which can be set in the Service menu of the ST220



Operating status	Key	Display				Explanation
		EN	GB	FR	IT	
Automatic		<i>Ru</i>	<i>Ru</i>	<i>Ru</i>	<i>Ru</i>	Door opens and closes again. Inner and outer activation device active.
Exit only (one-way operation)		<i>LS</i>	<i>Eo</i>	<i>Su</i>	<i>Su</i>	Inner activation device active. Outer activation device only active as long as door is not closed. Door only opens for passage from the inside to the outside.
Hold open		<i>do</i>	<i>H.</i>	<i>OP</i>	<i>PR</i>	Door remains open.
Night mode/Locked		<i>on</i>	<i>no</i>	<i>ni</i>	<i>n-</i>	Displayed until door is closed and locked (if lock is present).
		<i>nR</i>	<i>ni</i>	<i>no</i>	<i>ni</i>	Door is closed and locked (if lock is present). Movement detector not active. Only authorised activation device is active.
Off (service/cleaning position)		<i>OF</i>	<i>OF</i>	<i>OF</i>	<i>OF</i>	The drive is switched to without function for service purposes. The door leaves can be moved freely by hand. Activation and safety sensors are without function. Drive motor and locking mechanism are switched off.
Full opening width						Door opens the complete opening width. LED off
Reduced opening width *						Door opens only part of the possible opening width (can be set). LED lights up.

3.2.2 Keypad programme switch (TPS)

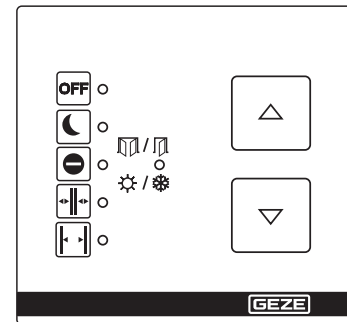
The system operating status is selected and the corresponding programme is displayed at the keypad programme switch.

The desired operating mode of operation can be selected by activating the  and  keys. The LED of the current mode of operation lights up.

Operation by unauthorised persons can be blocked as follows:

- Connection of an additional key switch
- or
- Assignment of a password which can be set in the Service menu of the ST220

Keypad programme switch TPS

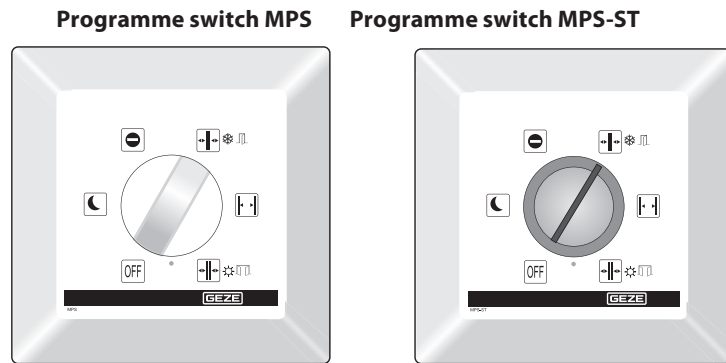


Operating status	Key	Display	Explanation
Automatic	 or 	 ○  ○  ○  ●  ○	Door opens and closes again. Inner and outer activation device active.
▫ Full opening width	 + 	 /   ○  / 	Door opens over the complete opening width.
▫ Reduced opening width	 + 	 /   / 	Door opens only part of the possible opening width (can be set).
Shop closing (one-way operation)	 or 	 ○  ○  ●  ○  ○	Inner activation device active. Outer activation device only active as long as door is not closed. Door only opens for passage from the inside to the outside.
Hold open	 or 	 ○  ○  ○  ○  ●	Door remains open.
Night mode/Locked	 or 	 ○  ●  ○  ○  ○	Door is closed and locked (if locking mechanism available). Movement detector not active. Only authorised activation device is active.
Off (service/cleaning position)		 ●  ○  ○  ○  ○	The drive is switched to without function for service purposes. The door leaves can be moved freely by hand. Activation and safety sensors are without function. Drive motor and locking mechanism are switched off.

3.2.3 Mechanical programme switch (MPS, MPS-ST)

The desired mode of operation can be set by activating the rotary switch. The marking of the rotary switch must display the desired mode of operation.

The MPS-ST fulfils the same function as the MPS. The desired mode of operation can only be set using the supplied key. The programme switch is blocked when the key is removed.



Operating status	Setting	Explanation
Automatic		Door opens and closes again. Inner and outer activation device active.
▫ Full opening width		Door opens the complete opening width. Winter LED goes out.
▫ Reduced opening width		Door opens only part of the possible opening width (can be set).
Shop closing (one-way operation)		Inner activation device active. Outer activation device only active as long as door is not closed. Door only opens for passage from the inside to the outside.
Hold open		Door remains open.
Night mode/Locked		Door is closed and locked (if locking mechanism available). Movement detector not active. Only authorised activation device is active.
Off (service/cleaning position)		The drive is switched to without function for service purposes. The door leaves can be moved freely by hand. Activation and safety sensors are without function. Drive motor and locking mechanism are switched off.

3.3 Blocking and releasing the operating mode

3.3.1 With DPS and TPS – blocking/releasing with additional key switch

- ▶ Press the key switch briefly to block function.
 - With the DPS, the function “operation blocked” is signalled by the display “- -” when any key is pressed.
 - With the TPS, the function “operation blocked” is signalled by the LED for the respectively set mode of operation flashing once when any key is pressed.
- ▶ Turn key switch again briefly for release.
Operation is then permanently released.

4 No mains voltage



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

Status	Reaction
No mains voltage (e.g. power failure)	The door remains closed and then locks in "Night" operating mode. Standard drives: In the operating modes shop closing, reduced opening width, full opening width and permanently open, the behaviour of the door depends on the parameters that have been set during the initial commissioning: ▫ Door remains in the current position and switches off. ▫ With drives with built-in rechargeable battery depending on the function selected: ▫ Door closes and switches off. ▫ Door opens and switches off. ▫ Normal operation for maximum 30 minutes or 30 open/close cycles, then close and switch off. ▫ Normal operation for maximum 30 minutes or 30 open/close cycles, then open and switch off.
Mains voltage available again	The last mode of operation set is active. The door closes slowly and remains closed until the first opening command is given.
Locking/unlocking without mains voltage active (e.g. power failure) for the toothed-belt lock	Locking only makes sense when the door is closed. Locking with drives with built-in rechargeable battery ▫ If the door is to be locked and this door is the only point of access: ▶ Push the door closed manually from the inside. ▶ Push the locking pin. ▶ Activate the inner authorised activation device until initialisation of the drive is completed. DPS or TPS indicates Night mode of operation. Door opens – leave the building – door closes – locks again and switches off. Unlocking from the outside with drives with built-in rechargeable battery ▶ Activate the outer authorised activation device until the drive is initialised and the door starts to open. Door opens – door closes – locks again and switches off. Unlocking from the inside with drives with built-in rechargeable battery: ▶ Activate the outer authorised activation device until the drive is initialised and the door starts to open. Door opens – door closes – locks again and switches off. Unlocking with drives without built-in rechargeable battery (only possible from the inside) ▶ Push the door to the desired locking position and push the locking pin. Unlocking with drives without built-in rechargeable battery (only possible from the inside) ▶ Pull the locking pin.

5 Error messages

5.1 Keypad programme switch TPS/Display programme switch DPS

Display keypad programme switch					Designation	Display display programme switch
OFF						
–	–	–	–	–	No operating voltage	
–	–	–	x	x	Drive too hot	45, 46, 48, 75, 78
–	–	x	–	x	Position	26, x.x
–	–	x	x	–	SIS	13, 19
–	–	x	x	x	Motor gear unit	10, 11, 12, 71, 72
–	x	–	–	x	Activation takes longer than 4 min	35, 36, 37, 38, 39, 40
–	x	–	x	x	Interlocking door system vestibule	33
–	x	x	–	–	Rechargeable battery	61
–	x	x	x	–	Opening time too long	64
x	–	–	–	x	Alarm	07, 08, 32, 42, 44
x	–	–	x	x	DCU104	50
x	–	x	–	–	SIO, BO	27, 29, 41
x	x	–	–	–	Power failure	03
x	x	–	–	–	Control unit	01, 02, 28, 47, 60, 63, 65, 70, 77, 79
x	x	x	–	–	Locking mechanism	16, 17, 18, 51, 53
x	x	x	–	x	Communication	15, 34, 52, 54, 59

5.2 Mechanical programme switch MPS/MPS-ST

If a fault occurs in the system, this is indicated by the LED lighting up permanently.

- Notify a service technician.

6 What to do if...?

Problem	Cause	Remedy
Door only opens and closes slowly	Floor guide area dirty	► Disconnect power supply (emergency control or on-site safety fuse). ► Clean floor guide area.
	Obstruction on travel path	► Remove obstacle and check door leaf for ease of movement.
	Closing safety sensor (SIS) interrupted or misaligned	► Clean closing safety sensor (SIS) (photoelectric barrier). ► Check settings of light curtain.
Door opens and closes constantly	Obstruction in sliding path, e.g. stone in floor guide area	► Disconnect power supply (emergency control or on-site safety fuse). ► Clear obstruction and clean floor guide area.
	Light beams or reflections, e.g. reflective floor, drops of rain, plants / flower pots, posters/displays or similar in the scanned area of the movement detector	► Check detection area of movement detectors.
	Misaligned movement detector	► Check detection area of movement detectors.
Door only opens a crack	Obstruction on travel path	► Remove obstacle and check door leaf for ease of movement.
Door does not open	Obstruction on travel path	► Remove obstacle and check door leaf for ease of movement.
	Movement detector misaligned or defective (inside and/or outside)	► Check movement detector.
	Operating mode "Night", "OFF"	► Select another operating status.
	"Exit only" operating status	► Select "Automatic" operating status.

Problem	Cause	Remedy
	Floor locks are locked	► Unlock floor locks.
	Lock M is locked	► Unlock hook bolt lock.
	No mains voltage (e.g. power failure)	See Chapter 4, No mains voltage
Door does not unlock or lock	Locking mechanism defective	Unlock/lock the door manually: ► Check locking in the "Night" operating mode If the locking is defective: ► Notify a service technician.
Door does not close	Closing safety sensor (SIS) interrupted or misaligned	► Clean the closing safety sensor (SIS). ► Check settings of light curtain.
	Obstruction on travel path	► Remove obstacle and check door leaf for ease of movement.
	Movement detector triggers constantly	► Check movement detector.
	Operating mode "Permanently open", "OFF"	► Select another operating status.
	No mains voltage (e.g. power failure)	See Chapter 4, No mains voltage
Programme switch cannot be operated	Programme switch is blocked Programme switch is defective	► Activate key switch. ► Enter password. ► Request servicing.
Fault messages displayed at programme switch	Fault in the door system	See Chapter 5, Fault messages

Carry out a reset/delete the fault memory

- With TPS:
 - Use key  or  to change to the mode of operation "Off" (see Chapter 5.1).
 - Press keys  and  simultaneously for 1 s.
- DPS with OFF key:
 - Set mode of operation "Off".
 - Activate keys  +  simultaneously for 1 s.

The fault memory is deleted.

- Re-select mode of operation.

7 Cleaning and maintenance

7.1 Cleaning



WARNING!

Risk of electric shock due to improper cleaning!

- Doors should only be cleaned by trained personnel.



CAUTION!

Danger of injury due to impact and crushing!

- Set the mode of operation to "Off".
- Secure door leaves against accidental movement before carrying out cleaning work.
- Cleaning should only be carried out by persons who have been instructed in the safety devices.
- Mark the door accordingly during cleaning.
- During cleaning work, secure the system against unauthorised switching of the mode of operation.

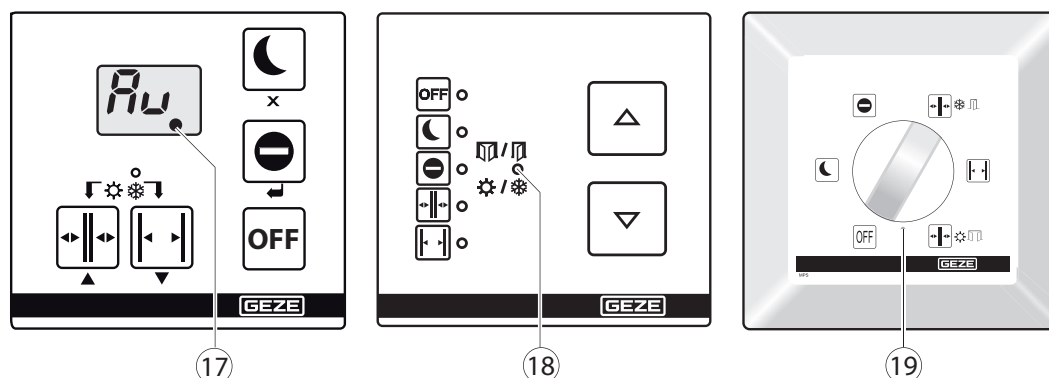
What is to be cleaned	How is it to be cleaned
Safety sensor	Wipe with moist cloth.
Glass surfaces	Wipe with a cold vinegar/water mixture; then dry.
Stainless surfaces	Wipe with non-scratching cloth.
Painted surfaces	Wipe with water and soap.
Anodised surfaces	Wipe with non-alkaline potassium soap (pH value 5.5 ... 7).
Programme switch	Wipe with damp cloth. Do not use a cleaning agent.

7.2 Maintenance



- The building operator must ensure that the system is working perfectly. In order to ensure faultless operation, the door system has to be maintained by a service technician when the maintenance indicator lights up.

The maintenance indicator is located on the programme switch. The version differs depending on the programme switch used:



Programme switch	Maintenance indicator
Display programme switch (17)	A red dot appears at the bottom right of the display.
Keypad programme switch (18)	"Reduced opening width" LED flashes.
MPS, MPS-ST (19)	LED flashes.

The maintenance display lights up after the specified calendar period or number of opening cycles, depending on what occurs first:

Door system	Calendar period	Opening cycles
GEZE MCRdrive	1 year	500000
ECdrive H		

7.3 Rechargeable battery



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 end-consumer, you are legally obliged to return used batteries. Please dispose of batteries at a municipal collection point or in store. Batteries obtained from us can be returned to us by mail. The address is:

GEZE GmbH, Goods reception, Reinhold-Vöster-Str. 21-29, D-71229 Leonberg.



Batteries that contain hazardous substances are labelled with the symbol of a crossed-out rubbish bin. The chemical identifier of the harmful chemical, Cd for cadmium, Pb for lead, Hg for mercury, is located under the rubbish bin symbol.



Automatic sliding door systems from GEZE contain NiCd rechargeable batteries.

NiCd rechargeable batteries must be replaced after 2 years at the latest.

8 Spare and wear parts



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

9 Safety technology inspection by trained professionals

In accordance with EN 16005 "Power-operated doors", Chapter 4.2.1

the safe condition of power operated doors must be checked before initial commissioning, after material changes, and once a year by a professional authorised by GEZE.

10 Technical data

GEZE MCRdrive		ECdrive H
Opening speed	0.2 m/s...0.7 m/s	
Closing speed	0.2 m/s...0.5 m/s	
Electrical connection values	230 V; 50 Hz according to DIN IEC 38	
Connected load	max. 450 VA	max. 300 VA
Current consumption for external devices	24 V DC connection; max. 1000 mA	
Voltage in emergency battery operation	24 V; 700 mAh	
Temperature range	-15 °C to +50 °C; for dry rooms only	
IP rating	IP 20	
Opening width (mm)		
▫ 1-leaf	800–2500	700–2200
▫ Double leaf	–	900–2200
Leaf weight (kg)		
▫ 1-leaf	200	120
▫ Double leaf	–	2 × 120
Passage height, max. (mm)	The maximum installation height for combined detectors is 3500 mm, and for radar movement detectors 4000 mm.	

Subject to change

11 Glossary

Term	Explanation
Activation device inside (KI)	Push button, switch or movement detector for activating the door drive. The activation device is located within the room enclosed by the door. Activation function in the "Automatic" and "Exit only" modes of operation. The activation device does not have any function in the "Night/Locked" and "Off" mode of operation.
Activation device outside (KA)	Push button, switch or movement detector for activating the door drive. The activation device is located outside the room enclosed by the door. Activation function in the "Automatic" mode of operation. The activation device does not have any function in the "Exit only", "Night/Locked" and "Off" mode of operation.
Activation device authorised (KB)	Access control function (for example key switch or card reader) used by authorised persons to activate the door drive. The activation function is active in the "Automatic" "Exit only", "Night/Locked" and "Off" modes of operation.
Safety sensor open (SIO)	Presence detector (e.g. active infrared light sensor) for protecting the swinging range of the door in the opening direction. The sensor secures the secondary closing edge.
Safety sensor close (SIS)	Presence detector (e.g. active infrared light sensor) for protecting the swinging range of the door in the closing direction. The sensor secures the main closing edge on the inside and outside.
Emergency stop	Self-locking switch with which immediate stopping of the door drive can be triggered in case of danger. The door drive remains in its current position until the user releases the emergency stop switch again, thus terminating the emergency stop situation.
Emergency lock	When the emergency lock is triggered, the door is closed and locked. The activations and safety devices are deactivated during the closing process.

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