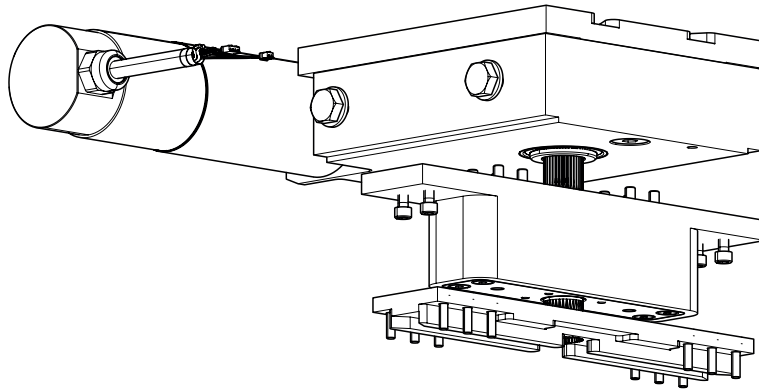




Axira

EN User manual

213814-00



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1 Introduction

1.1 Symbols and illustrations

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 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 have to do something. ▶ If there are several actions to be taken, keep to the given order.

1.2 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.

1.3 Special cases

In certain cases, deviations from the information given in this user manual may occur. Examples:

- special wiring
- special function settings (parameters)
- special software
- ▶ Please contact the service technician responsible for further information.

1.4 More detailed information

Information about commissioning and service can be found in the following documents:

- Wiring diagram Axira
- Installation instructions Axira

1.5 Terms

Term	Explanation
Hinge side	The side of the door where the hinges from which the door leaf is suspended are located. Usually the side of the door facing the opening direction.
Opposite hinge side	The side of the door facing the hinge side. Usually the side of the door facing the closing direction.
Active leaf	The active leaf of a double-leaf door. When the door is used, the active leaf must open as the first door leaf and close as the last door leaf.
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 and NIGHT/OFF modes of operation.
Activation device with current impulse function	Push button for opening and closing the door. Activation function only in the AUTOMATIC mode of operation. The door is opened automatically when the button is first pressed and closed again automatically when the button is pressed the second time. The function can be activated during commissioning by setting parameters using the display programme switch, ST 220 or GEZEconnects. If the activation device is connected to the passive leaf control system by means of the "current impulse" function, both door leaves open when activated, even when the passive leaf control system is deactivated.
Safety sensor open (SIO)	Presence detector (e.g. active infrared light sensor) for protecting the swivelling range of the door in the opening direction. As a rule the sensor is located on the hinge side of the door on the door leaf.
Safety sensor close (SIS)	Presence detector (for example active infrared light sensor) for protecting the swivelling range of the door in the closing direction. As a rule the sensor is located on the opposite hinge side of the door leaf.
Emergency stop/special wind function	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.
Electric strike	Fail-secure electric strike Available as AC or DC electric strike version. When the door drive is activated, the electric strike is switched on by the control unit of the door drive provided the door is in the closing position. The electric strike remains activated until the door has left the closing position. Fail-safe electric strike Available as DC electric strike version. The electric strike is switched off when the door drive is activated provided the door is in the closing position. The electric strike remains switched off until the door has left the closing position.
Bolt feedback	The bolt feedback function is a contact integrated in the door catch that is activated when the door is locked mechanically by the tie bolt of the door lock. It signals to the control unit that the door is locked mechanically and can therefore not be opened by the door drive. In this case the control unit ignores the control commands of all the activation devices.
Reset	Push button for restarting the drive after the operating voltage has been switched on or after a fire alarm has been terminated. When the push button is pressed, the latching operation circuit integrated in the drive is activated, causing the drive to be activated.

2 Safety notes

2.1 Intended use

The Axira drive system is designed for the automatic opening and closing of pivot doors.

The Axira drive system is designed solely for use

- in dry rooms,
- in entrances and interior areas of pedestrian traffic in commercial plants and public areas,
- in private areas.

The Axira drive system is not designed for the following uses:

- industrial use,
- areas of application which do not serve pedestrian traffic,
- on mobile objects such as ships.

The Axira drive system 100 must not

- be used on escape and rescue routes,
- on fire or smoke protection doors,
- or potentially explosive areas.

The Axira drive system 100 may only be used

- with the components approved/released by GEZE,
- with the 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.

2.2 Safety notes for users

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.
- 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.
- Note the possible residual risks in strong wind conditions when planning how the door is to be used.
- 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.
- The flooring used under the area of the side-hung leaves 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, there must be a sufficient ambient lighting available.
- Use of the door system is limited and not recommended in strong wind conditions.

2.3 Safety notes for service technicians

- GEZE does not accept any warranty for combinations with third-party products.
- Only combine third-party products with original parts following agreement by GEZE. Furthermore, only original GEZE parts may be used for repair and maintenance work.
- The power connection and protective earth connection test must be carried out in accordance DIN VDE 0100-610.
- Use a 16 A circuit breaker provided by the customer as the mains-side disconnecting device to disconnect the system from the mains.
- Due to the size of the door and the additional danger point at the secondary closing edge, careful adjustment of all safety sensors is necessary. If safety devices are adjusted and no longer fulfil their intended purpose, further operation is not permitted.

3 Description

3.1 Types of installation and versions

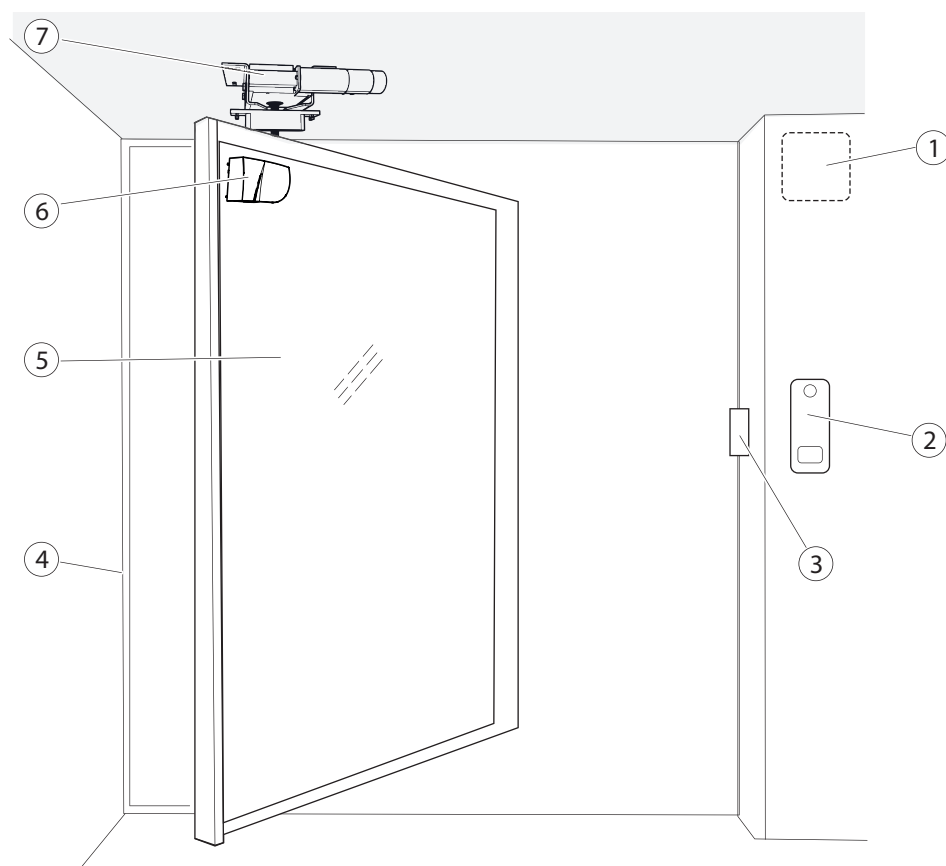
- The door drive can only be installed above the door leaf in a suspended ceiling.
- The door drive is available as a 1-leaf version.
- Supplied by GEZE:
 - Motor gear unit
 - Connecting unit
 - Control unit
 - Optional: Sensors

3.2 Structure



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.

Example: Axira drive system, 1-leaf, transom installation



- | | | | |
|---|------------------|---|---------------------------------|
| 1 | Control unit | 5 | Door leaf |
| 2 | Activation panel | 6 | Sensors, e.g. GC 342 or GC 342+ |
| 3 | Motor lock | 7 | Motor gear unit |
| 4 | Door frame | | |

Pos.	Explanation
1	Control for operating the drive
2	Push button or switch for activating the drive
3	Motor lock for automatic locking of the door leaf
4	Door frame for mounting the door leaf
5	Door leaf
6	Non-contact protective device as protection for the rotary movement of the door leaf. When a person approaches, the door leaf is stopped
7	Drive unit for the door system

3.3 Overview of the modes of operation

The following modes of operation can be set on the Axira:

- Automatic mode
- OFF

Mode of operation	MPS/MPS-ST	DPS		Explanatory notes
		Key	Display	
Automatic			<i>Auto</i>	Door opens when the activation panel is operated and then closes again.
OFF			<i>oF</i>	Door is enabled and can be moved by hand. The inside and outside activation devices are inactive.

3.4 Operating element display programme switch (option)

The modes of operation can be set using the following operating elements:

- Display programme switch (optional)
- On-site switch



- Additionally, it can be connected to the internal operating modes push button.

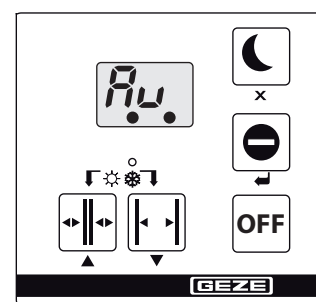
If a dot appears in the bottom right-hand part of the display, maintenance is due.



If a dot appears in the middle of the display, the door has not yet been fully initialised after the mains voltage has been switched on.



Initialisation is carried out automatically when the drive opens and closes the door.



Display programme switch

3.5 Door in normal operation

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

What happens?	What does the door do?
An activation device (push button, switch or movement detector) is triggered.	Door opens, waits the hold-open time and then closes.
Safety sensor close (SIS) is triggered when the door is open (e.g. light switch).	Door remains open.
Safety sensor close (SIS) is triggered while the door is closing.	The door immediately opens again or stops depending on the parameter setting.
Safety sensor open (SIO) is triggered while door is opening.	The door stops and remains in position until the end of activation (door opens) or until the end of the hold-open time (door closes).
Safety sensor open (SIO) is triggered when the door is closed.	Door remains closed.
Door contacts an obstruction when opening. The safety sensor open has not been activated.	Door stops, waits and attempts again to move to the open position at a reduced speed. Then the door closes again.
Door hits an obstacle when closing. The safety sensor close has not been activated.	Door reopens immediately, waits the hold-open time and then closes at a reduced speed. When door closer mode is used with the safety sensor close deactivated, the drive presses against the obstacle with the force set.

Additional door functions

Which switch/push button?	What does the switch/push button do?
Emergency stop switch/wind monitor	The door stops immediately (in every mode of operation) and stays in position until the emergency stop switch/wind monitor is unlocked.
Key switch of the display programme switch	If a key switch is connected to the display programme switch, the operation of the display programme switch can be locked or released with it.
Activation device authorised (KB) (e.g. outside key switch)	Door opens once and closes after the hold-open time. The set mode of operation is retained.

4 Operation

! The set parameters of the drive functions may only be modified by a service technician.

4.1 Selecting the mode of operation

4.1.1 Selecting the mode of operation using the operating modes push button

i The operating modes push button can be deactivated by a service technician.

Changing the mode of operation (with single-leaf doors or active leaf)

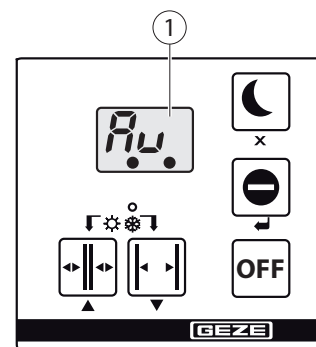
► Activate the mode of operation/drive using an on-site switch.

4.1.2 Selecting the mode of operation using the display programme switch (optional)

i Only the modes of operation Automatic and OFF are saved in the system. The selection of any other mode of operation at the display programme switch will be ignored.

► Touch the desired mode of operation on the display programme switch.

The mode of operation is set and indicated on the display (1).



Display programme switch

Fault messages on the display

If a fault occurs in the door system, it is displayed on the display programme switch approximately every 10 seconds.

► Read the number of the fault message, note it down and notify the service technician.

5 Troubleshooting

Problem	Cause	Remedy
Door only opens and closes slowly	Obstruction on travel path	▶ Remove obstruction and check door leaf for ease of movement ▶ Allow the door to close completely once; door moves at a safe speed after obstruction until a complete closing process has been completed.
	Closing safety sensor close (SIS) dirty	▶ Clean safety sensor close ▶ Allow the door to close completely once; door moves at a safe speed after obstruction until a complete closing process has been completed.
	Safety sensor close (SIS) misaligned or defective	▶ Notify a service technician
Door opens and closes constantly	Obstruction on travel path	▶ Clear the obstruction
	Irradiation or reflections, e.g. reflective floor, falling rain	▶ Check detection area of movement detector
	Misaligned movement detector	▶ Check the detection area of movement detector
Door only opens a crack	Obstruction on travel path	▶ Remove obstruction and check door leaf for ease of movement
Door does not open	Obstruction on travel path	▶ Remove obstruction and check door leaf for ease of movement
	Movement detector misaligned or defective (outside)	▶ Check the movement detector, notify a service technician if necessary
	Emergency stop activated	▶ Unlock emergency stop
	"Night" mode of operation	▶ Select a different mode of operation
	Door locked mechanically	▶ Unlock the door
	Electric strike does not release	▶ Notify a service technician
	Drive defective	▶ Notify a service technician
Door does not close	Safety sensor close (SIS) dirty	▶ Clean safety sensor close (SIS)
	Safety sensor close (SIS) misaligned or defective	▶ Notify a service technician
	Obstruction on travel path	▶ Remove obstruction and check door leaf for ease of movement
	Movement detector/push button activates constantly	▶ Check the movement detector, notify a service technician if necessary
	"Hold open" mode of operation	▶ Select a different mode of operation
Display programme switch cannot be operated	Display programme switch is disabled	▶ Activate key switch for release
	Display programme switch defective	▶ Notify a service technician
Display programme switch displays 88	Connection between display programme switch and control unit faulty	▶ Notify a service technician
	Display programme switch or control unit defective	▶ Notify a service technician
Display programme switch is dark	Power failure	▶ Check mains fuse
	Connection between display programme switch and control unit faulty	▶ Notify a service technician
	Display programme switch or control unit defective	▶ Notify a service technician
Display of fault messages on the display programme switch	Fault in the door system	▶ Note fault messages. Up to 10 different fault messages can occur in succession. The display changes about every 10 seconds. ▶ Notify a service technician

6 Cleaning and maintenance

6.1 Cleaning



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.

What is to be cleaned?	How is it to be cleaned?
Safety sensor close (SIS) (e.g. light switch)	▶ Wipe with damp cloth
Glass surfaces	▶ Wipe with a cold vinegar/water mixture; then dry.
Stainless surfaces	▶ Wipe with soft cloth
Painted surfaces	▶ Wipe with water and soap
Anodised surfaces	▶ Wipe with non-alkaline potassium soap (pH value 5.5...7)
Display programme switch	▶ Wipe with damp cloth. Do not use a cleaning agent.

6.2 Maintenance

The building operator must ensure that the system is working perfectly. To guarantee perfect operation, the door system must be serviced regularly by a service technician.

Maintenance must be carried out at least once a year or according to the maintenance display on the display programme switch.

Installation, maintenance and repair work must be performed by experts authorised by GEZE.

If a dot appears in the bottom right-hand part of the display, maintenance is due.

- ▶ Notify a service technician.



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

1 year or 100,000 cycles

GEZE offers maintenance contracts with the following services:

- Inspection of fixing elements for firm fit
- Performance of miscellaneous adjustment work
- Performance of operational checks
- Checking all the safety and control equipment of the door system
- Lubrication of all the moveable parts

6.3 Inspection by an expert

In compliance with the "Guidelines for windows, doors and gates" (ASR A1.7 and GUV 16.10) Section 6, power-operated doors must be inspected for safety by an expert before initial commissioning and at least once a year.

GEZE offers the following services:

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

7 Disposal

The Axira drive system is made up of materials that must be recycled.

Disposal of electrical and electronic devices



The symbol of the 'crossed-out dustbin' means that you are legally obliged to dispose of these appliances separately from unsorted municipal waste. Disposal with household waste, e.g. in the black bin or yellow bin, is prohibited. Avoid incorrect disposal by disposing of waste correctly at special collection and return points. Measures for avoiding waste always take priority over waste management measures. In the case of electrical and electronic devices, waste avoidance measures particularly include extension of service life by repairing faulty devices and selling devices which are still functional rather than sending them for disposal.

Possibilities for returning used devices

Owners of used devices can hand these in free of charge at collection or return points for used devices set up and provided by public waste disposal authorities. In addition, it is possible under certain conditions to return the devices to the distributor.

The distributor must take the device back free of charge if an equivalent new device is purchased (1:1 return).

In addition, it is possible to return used devices free of charge to the distributor if the outer dimensions are not greater than 25 centimetres and no more than three used devices per device type are returned (0:1 return).

Retail industry: Distributors who have a sales area for electrical and electronic devices at least 400 m² in size are obliged to take back used electrical devices. Food retailers who have an overall sales area of at least 800 m² and offer and sell electrical and electronic devices several times a year or permanently are also obliged to take back used devices.

Distant selling market: Distributors who use means of telecommunication for selling their products are obliged to take back used devices if the warehouse and sales areas for electrical and electronic devices are at least 400 m² in size.

Removal of batteries and lamps

If the products contain batteries, rechargeable batteries or lamps which can be removed from the used device without destruction, these have to be removed before disposal and disposed of separately as batteries or lamps.

Information according to the German Battery Directive



The "crossed-out wheeled bin" symbol on batteries or rechargeable batteries means that these must not be disposed of with domestic waste at the end of their service life. If batteries or rechargeable batteries contain mercury (Hg), cadmium (Cd) or lead (Pb), you will find the respective chemical symbol underneath the symbol of the crossed-out wheeled bin:

Pb: Battery contains more than 0.004 weight percent of lead

Cd: Battery contains more than 0.002 weight percent of cadmium

Hg: Battery contains more than 0.0005 weight percent of mercury

You are legally obliged to return all batteries and rechargeable batteries after use. You can do this free of charge at points of sale or other collection points nearby. Handing in at points of sale is limited to customary quantities for end users. You can obtain the addresses of suitable collection points from your local town or municipal authority. Batteries may contain pollutants which can damage the environment and your health if they are not stored or disposed of properly. The separate collection and recycling of used batteries and rechargeable batteries is designed to avoid the negative impacts on the environment and human health and returning valuable raw materials such as iron, zinc, manganese or nickel to the recovered materials cycle. Special care must be taken on account of the special risks involved in the handling of batteries containing lithium.

Please avoid producing waste from used batteries as far as possible e.g. by preferring batteries with a long service life or using rechargeable batteries. Avoid polluting public spaces by thoughtlessly discarding batteries or electrical and electronic devices containing batteries. Rather than disposing of them, please check the possibilities of sending batteries for recycling, for example by reconditioning or overhauling the battery.

Date protection

We would like to point out to all end-users of electrical and electronic devices that they themselves are responsible for deleting the personal data on the used devices to be disposed of.

8 Technical data

Opening time:	10 ... 20 s
Closing time:	10 ... 20 s
Mains voltage	230 V AC –15 %, +10 %
Frequency	50 / 60 Hz
Protection class	I
Capacity rating	200 W
Mains connection	Fixed connection (installation cable or drip loop)
Primary fuse	–
Secondary fuse	10 A slow-blow, 5×20 mm
Secondary voltage (transformer)	33 VAC (46 VDC)
Control voltage for external components	24 VDC ±10 %
Output current control voltage 24 V	1200 mA permanently 1800 mA briefly (2 s, duty ratio 30 %)
Fuse protection <24 V	2.5 A; reversible
Temperature range	–15 °C... +50 °C
IP rating	IP65
Sound level	<49 dB (A)
Drive service life	max. 200.000 cycles

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