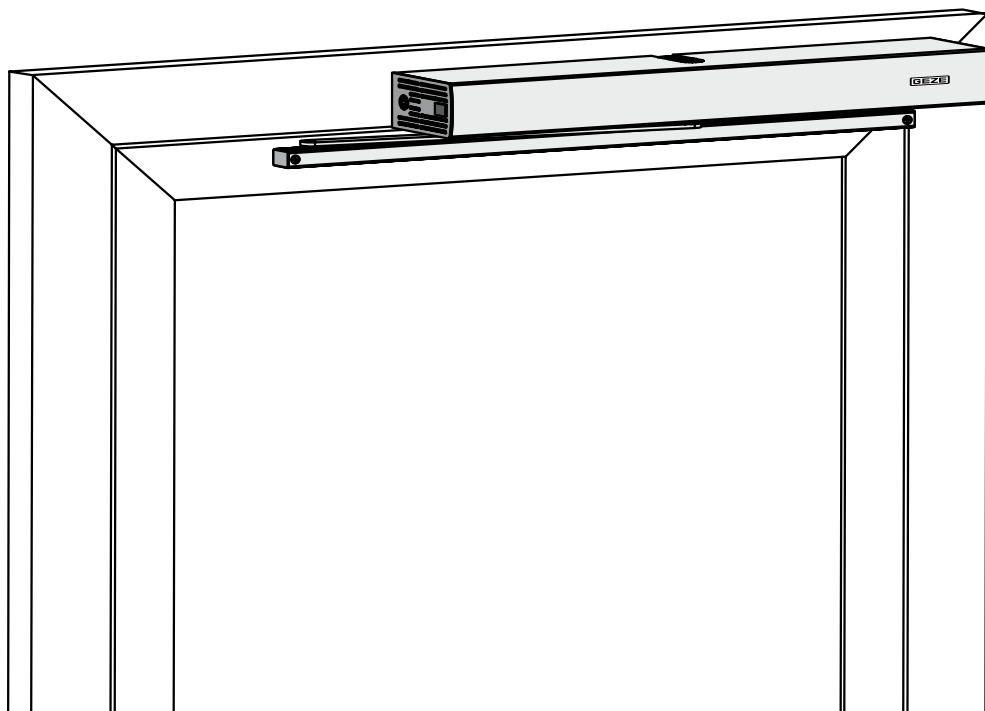


- Slimdrive EMD**
- Slimdrive EMD-F**
- Slimdrive EMD-F-IS**
- Slimdrive EMD Invers**



User Manual

GB Mat.-Nr. 118176

DE DE Mat.-Nr. 114075

FR No. de suite 118179

ES Mat.No. 118177

SE Mat.nr. 118178


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System supplied	
Slimdrive EMD	<input type="checkbox"/>
Slimdrive EMD-F	<input type="checkbox"/>
Slimdrive EMD-F-IS	<input type="checkbox"/>
Slimdrive EMD Invers	<input type="checkbox"/>


Explanation of symbols

 means 'activity should be carried out'

 means 'additional information'

 means 'important pointer'

Special situations

 In certain cases, for example where

- special wiring has been fitted
- there are special settings for functions (parameters)
- there is special software

it is possible that the instructions in this user manual need to be modified. In that case, please refer to the service technician in charge.

1 General safety instructions

It is important that this user manual is carefully read and understood before operating the door. In addition, the following safety instructions should always be observed:

- Keep to the instructions for operation, servicing and maintenance as specified by GEZE.
- The commissioning, specified installation, servicing and maintenance work should be carried out by qualified technicians that are authorised by GEZE.
- GEZE will not accept any liability for any injury or damage resulting from unauthorised modifications of the system.
- The responsibility for the safe operation of the system lies with the owners/operators. If the safety devices have been altered so that they no longer fulfil their functions, it is not permitted to continue using the system. The service technician should be informed immediately.
- GEZE does not uphold any warranty if the product is used in combination with products by third parties. Like wise, only original GEZE parts should be used for repair and maintenance work.
- The electrical connection to the mains voltage is to be carried out by a qualified electrician. The mains connection and earth conductor test should be carried out in accordance with DIN VDE 0100-610.
- To protect the system from the mains network a 10A automatic fuse (supplied by others) should be installed that separates the system from the network.
- When fitted to glass panels, apply safety label (mat. no. 081476).
- The optional Display Program Switch must be protected from unauthorised access.
- In accordance with the Machine Directive 98/37/EU and DIN 18650, a risk analysis has to be carried out before commissioning the door system and it must be marked in accordance with the CE Marking Directive 98/68/EEC.
- With respect to guidelines, standards and state/country-specific regulations, the up-to-date version need to be observed, in particular:
 - BGR 232 'Guidelines for power-operated windows, doors and gates'
 - DIN 18650 'Locks and fittings - automatic door systems'
 - DIN VDE 0100-610 'Installation of low-voltage systems'
 - DIN EN 60335-2-103 'Safety of electrical devices in domestic and similar uses; special requirements for gate, door and window drives'
 - Regulations for the prevention of accidents, in particular BGV A1 'General regulations' and BGV A2 'Electrical installations and devices'.

2 Terms

Term	Explanation
Hinge side	The side of the door on which the hinges are fixed which support the door. Usually the side of the door facing the direction in which the door opens.
Opposite hinge side	The side of the door opposite the hinge side. Usually the side of the door facing the direction in which the door closes.
Moving leaf	The main leaf of a double door. When the door is opened, the moving leaf should open first and when the door closes should close last.
Fixed leaf	The secondary leaf of a double door. When the door is opened, the secondary leaf should not open until the moving leaf has left the closed position and when the door closes it should close first.
Contact device – inside (KI)	Buttons, switches or movement sensors for controlling the door drive. The contact device is located inside the room that is closed by the door. It is only functional in the operating modes AUTOMATIC and SHOP CLOSING TIME ⁽¹⁾ . In the operating mode NIGHT TIME / OFF the contact device is not functional.
Contact device – outside (KA)	Buttons, switches or movement sensors for controlling the door drive. The contact device is located outside the room that is closed by the door. Control is functional in the operating mode AUTOMATIC. In the operating modes SHOP CLOSING TIME ⁽¹⁾ and NIGHT TIME / OFF the contact device is not functional.
Contact device authorised (KB)	Access control (e.g. key switch or card reading device) for controlling the door drive by authorised persons. The control function is active in the operating modes AUTOMATIC, SHOP CLOSING TIME1 and NIGHT TIME / OFF.
Contact device with current impulse function	Button for opening and closing the door. Control function only in the operating modes AUTOMATIC and SHOP CLOSING TIME1. When pressing the button once the door is opened automatically and when pressing it again it will close automatically. This function can be activated during commissioning, using the display program switch for setting parameters. When the contact device is connected to the controls with the function 'current impulse', both leaves of the door will open when activated, even when the control of the fixed leaf is not switched on.
Push & go	When the push & go function is activated in the AUTOMATIC operating mode and the door is manually pushed from the closed position, the door will open automatically, once a certain adjustable angle of opening has been exceeded.
Safety sensor for opening (SIO)	Sensor for the presence of objects (e.g. active infrared light sensor) for safeguarding the door swing area on the opening side. Usually, the sensor is fitted to the hinge side of the door leaf.
Safety sensor for closing (SIS)	Sensor for the presence of objects (e.g. active infrared light sensor) for safeguarding the door swing area on the closing side. Usually, the sensor is fitted to the side opposite the hinges of the door leaf.
Emergency stop	Self-locking switch that can be used to stop the door drive immediately in an emergency. This will cause the door drive to stop at its current position until the user unlocks the emergency stop switch and thereby ends the emergency stop situation.

⁽¹⁾ The operating mode 'SHOP CLOSING TIME' can only be selected with the optional display program switch.

2 Terms

Term	Explanation
Closing sequence control	<p>Electrical closing sequence control During normal operation of double-door drives the closing sequence of the door leaves is controlled by the controls of the door drives. This involves closing the fixed leaf first. The moving leaf will remain in the open position until the fixed leaf has reached the closed position; only then will the moving leaf begin to close.</p> <p>Integrated closing sequence control (-IS) When there is a power cut, the closing sequence of double door systems with Slimdrive EMD-F-IS is controlled mechanically. The door leaves are closed via the energy storage of the drives; owing to the integrated mechanical closing sequence control, the moving leaf will be stopped at an opening angle of about 30° before reaching the closed position. When the fixed leaf has reached the closing position it will release the moving leaf via the mechanism of the integrated closing sequence control so that this can also close fully.</p>
Electrical door opener	<p>Load current door opener Available as door opener for alternating current and direct current. When the door drive is activated, the door opener is switched on by the controls of the door drive, provided the door is in the closed position. The door opener remains switched on until the door has left the closed position.</p> <p>No-load door opener Available as door opener for direct current. When the door drive is activated the door opener is switched off, provided the door is in the closed position. The door opener remains switched off until the door has left the closed position.</p>
Bolt feedback	<p>The bolt feedback is a contact that is integrated in the door latch, which is activated when the bolt of the door is closed mechanically. It gives a signal to the control system that the door is mechanically bolted and can therefore not be opened by the door drive. In this case the control system will ignore all activation impulses from all contact devices.</p>
Reset	<p>Button for resetting the drive after the operating voltage has been switched on or after a fire alarm has terminated. By operating the button, the self-locking switching integrated in the drive will be activated, which causes the drive to be switched on.</p>
Latching function	<p>When closing the door when there is no power, the door leaf is obstructed by the locking latch of the door opener. In order for the door to be able to overcome the locking latch during closing, a limit switch integrated in the drive will be operated upon reaching a certain angle of opening and the braking force is reduced. The door will then accelerate and engage in the latch with increased speed. While the power is on, this function is controlled by the control system of the drive.</p>

3 Description

Design

System parts and options

- The door drive can be fitted at the top rail of the door frame (fig 1) or, when door mounted, on the leaf of the door.
 - The door drive is available as a single-door and double-door set.
 - The operating elements are suitable for individual positioning.
- For technical reasons it is not possible here to illustrate all options.

1	Door drive		10	Safety sensor for closing (SIS)	(Option)
2	Rod linkage or lever		11	Door transmission cable	(Option)
3	Internal program switch		12	Contact device authorised (KB)	(Option)
4	Door handle with lock	(by others)	13	Emergency stop switch	(Option)
5	Electrical door opener	(by others)	14	Reset switch (F-Reset)	(only EMD-F)
6	Contact device – inside (KI)	(Option)	15	Smoke switch control unit ²	
7	Contact device – outside (KA)	(Option)	16	Smoke switch ²	
8	Display program switch	(Option)	17	Circuit breaker	"CLOSE DOOR" ²
8a	Key switch for releasing the display program switch	(Option)			
9	Safety sensor for opening (SIO)	(Option)			

² optional, in combination with EMD-F

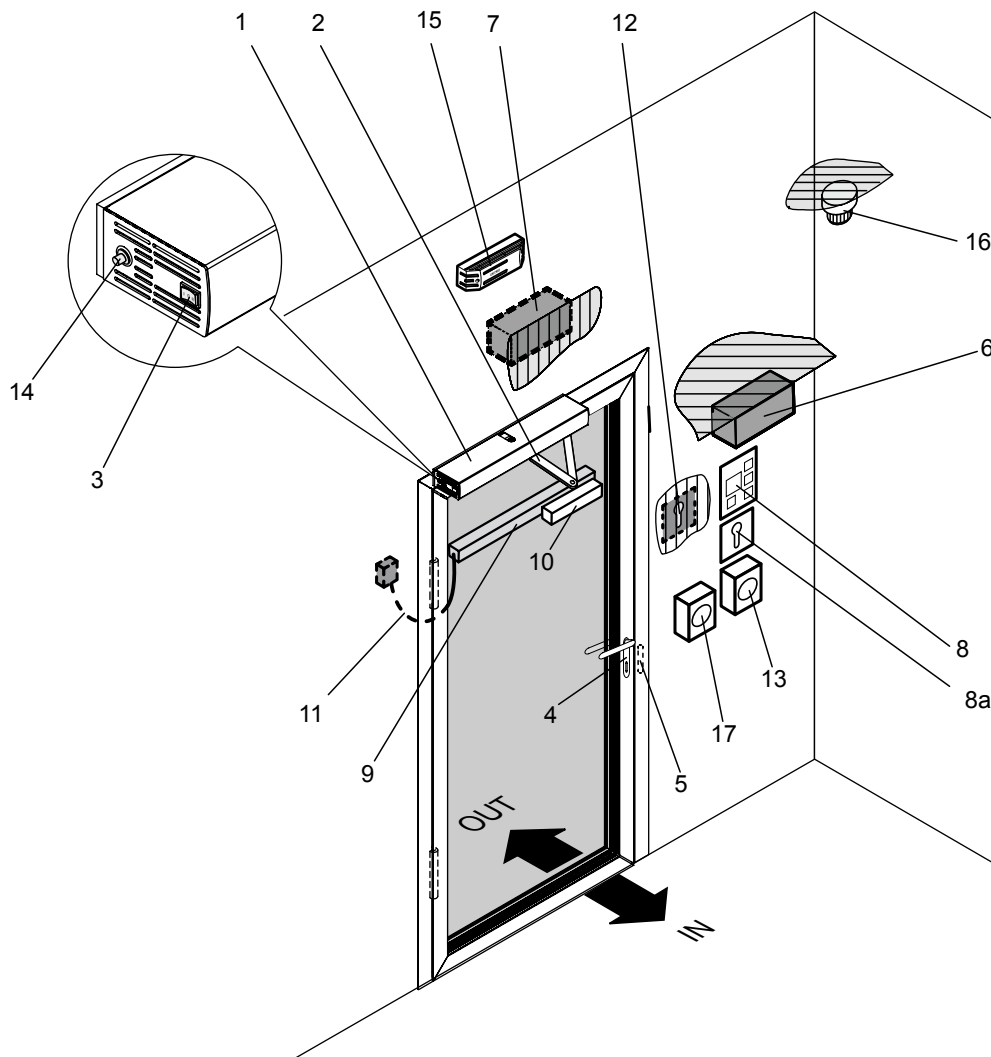


Fig.1 Example: Slimdrive EMD-F door drive for single door, fitted to frame

4 Operation

4.1 Functions



The default parameters of the drive functions may only be changed by qualified personnel.



The commissioning and setting or adjusting of door parameters, as well as some special drive functions can only be carried out with the display program switch (mat. no. 103940). The wiring diagram contains instructions for calling up and modifying the set drive parameters.

4.2 Normal operation



Special cases	In certain cases, e.g. with special wiring, special function settings (parameters), special software it is possible that the instructions in this user manual need to be modified. In that case, please refer to the service technician in charge.
Normal door operation	In normal door operation, the door is opened and closed automatically.

What triggers?	Reaction of the door
A contact device is triggered (button, switch or movement sensor).	The door opens, waits until the hold-open time is over and then closes again.
Safety sensor for closing (SIS) reacts while the door is open (e.g. light switch).	The door stays open.
Safety sensor for closing (SIS) reacts while the door is closing.	The door re-opens immediately.
Safety sensor for opening (SIO) reacts while the door is opening.	The door stops and remains in that position until the end of the activation (door opening) or until the end of the hold-open time (door closing).
Safety sensor for opening (SIO) reacts while the door is closed.	The door remains closed.
A person moves towards the open door and a movement sensor reacts.	The door stays open.
A person moves towards the closing door and a movement sensor reacts.	The door re-opens immediately.
When opening, the door hits an obstacle.	The door stops, waits and then tries again to open with reduced force. Then the door closes again.
When closing, the door hits an obstacle.	The door re-opens immediately, waits to the end of the hold-open time and then closes again with reduced speed.

Additional door functions


Emergency stop switch	The door stops immediately (in all operating modes) and keeps that position until the emergency stop switch is unlocked.
Key switch of display program switch	If a key switch is connected to the display program switch, it can be used to block or release the operation of the display program switch.
Contact device authorised (KB) (e.g. key switch outside)	The door opens once and closes again at the end of the hold-open period. The door remains in the selected operating mode.

Operation

4.3 Internal program switch

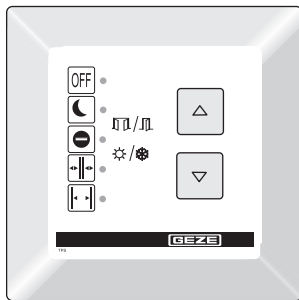
The internal program switch can be used to select the following operating modes:

- Position II *Au* Automatic
- Position 0 *nA* Night/Off
- Position I *do* Permanently Open

-  In position 0 of the program switch it is possible to change the operating mode via a connected display program switch (option).
- In positions I and II of the program switch, the display program switch (option) is used for displaying the current operating mode and for issuing error messages.
- GEZE door drives may also be operated in special situations (e.g. special switching), which may deviate from the reactions described here. In that case, please refer to the service technician in charge.



4.4 Button programme switch TPS (option)

Can be connected in addition to the internal programme switch.



Button programme switch TPS

At the button programme switch, the system operating mode is selected and the corresponding programme is displayed.

The desired operating mode can be selected by pressing the  and  buttons. The LED of the current operating state lights up.

The button programme switch is accessible for everyone without a key switch. If desired, an additional key switch can be used for locking.

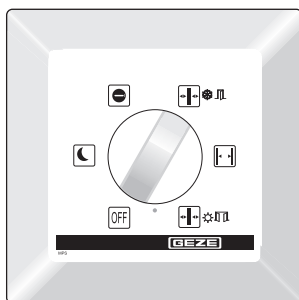
Operation of the button programme switch is enabled by briefly actuating the key switch once.

Operation of the key programme switch is disabled by briefly re-actuating the key switch.

NOTE: The button programme switch can only be used to select an operating mode, if the internal programme switch is set to position 0.

4.5 Mechanical programme switch MPS (option)

Can be connected in addition to the internal programme switch.



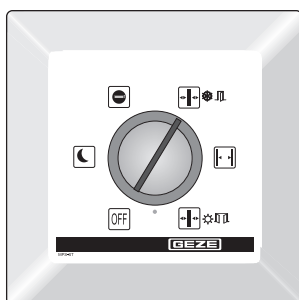
Mechanical programme switch MPS

At the mechanical programme switch, the system operating mode is selected and the corresponding programme is displayed.

The mechanical programme switch is accessible for everyone without a key switch.

To have a disabling mechanism use the mechanical programme switch MPS-ST.

The desired operating mode can be selected by actuating the selector switch.



Mechanical programme switch MPS-ST with integrated key switch



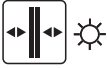













At the mechanical programme switch MPS-ST, the system operating mode is selected and the corresponding programme is displayed.

Operation of the mechanical programme switch MPS-ST is only possible with the supplied key.

The mechanical programme switch MPS-ST is disabled when the key is removed.

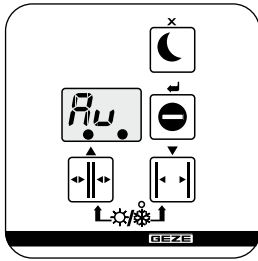
The desired operating mode is selected by using the key selector switch.

Operation

Operating mode	TPS	MPS MPS-ST	Descriptions
Automatic - Open 2 leaves - Open 1 leaf	 	 	<p>Door opens and closes again. Inside and outside contactors active. For double-leaf systems: Switch to Open 2 leaves in all operating modes.</p> <p>With TPS: Press the  and  buttons immediately. Winter LED extinguishes.</p> <p>With MPS, MPS-ST: Select Open 2 leaves at the corresponding position.</p> <p>Switch to Open 1 leaf in all operating modes: With TPS: Press the  and  buttons immediately. Winter LED lights up.</p> <p>With MPS, MPS-ST: Select Open 1 leaf at the corresponding position.</p>
Closing time			Door only opens and closes if someone exits.
Permanently open			Door remains open.
Night			The door can only be opened and closed using the key-operated switch
Fixed leaf On / Off			The door is released and can be operated manually.

Operation

4.6 Display program switch (option)



Can be connected in addition to the internal program switch.

The operating mode can only be selected via the display program switch when the internal program switch is turned to 0.



- When the display shows a dot at the bottom right, servicing is required.


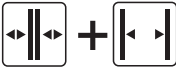






In this case the service technician should be notified.

- If a dot appears in the centre of the display, the door has not been fully initialised after switching on the mains voltage.

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



Operating mode	Button	Display	Explanations
Automatic - Open 2 leaves - Open 1 leaf	 	Au	The door opens and closes again. Contact device inside, outside are active. For double-leaf systems Switch to Open 2 leaves in all operating modes: Select Open 2 leaves at the corresponding position. For 1-leaf system Switch to Open 1 leaf in all operating modes: Select Open 1 leaf at the corresponding position.
Shop closing time		LS	The door opens and closes again. Only contact device inside is active.
Permanently open		do	The door stays open.
Night		nA	The door can only opened and closed using the key-operated switch.
Fixed leaf on / off			Operate buttons simultaneously. The door is released and can be operated manually.

Error messages in the display

When there is a fault in the system, an error message will appear every 10 seconds at the display program switch.



Read and take note of the number of the error message and then inform the service technician.

5 What to do when ...?

Problem	Cause	Remedy
Door only opens and closes slowly	Obstacle in swing area	Remove obstacle and check door leaf for free movement
	Safety sensor for closing (SIS) dirty	Clean safety sensor for closing
	Safety sensor for closing (SIS) pointing wrong way or defective	Call for service technician
Door keeps opening and closing	Obstacle in swing area	Remove obstacle
	Light radiation or reflections, e.g. reflecting floor or rain drops	Check the sensing range of the movement sensors
	Movement sensor pointing wrong way	Check the sensing range of the movement sensors
Door only opens a little	Obstacle in swing area	Remove obstacle and check door leaf for free movement
Door does not open	Obstacle in swing area	Remove obstacle and check door leaf for free movement
	Movement sensor points wrong way or is defective (outside)	Check movement sensor and call service technician if necessary
	Emergency stop has been activated	Unlock the emergency stop
	Operating mode 'Night-time'	Select different operating mode
	Operating mode 'Shop closing time'	Select 'Automatic' operating mode
	Door mechanically bolted	Undo bolt(s) of door
	Door opener does not respond	Call for service technician
	Fire alarm active (only EMD-F)	Press Reset button
	Drive defective	Call for service technician
Door does not close	Safety sensor for closing (SIS) dirty	Clean safety sensor for closing (SIS)
	Safety sensor for closing (SIS) pointing wrong way or defective	Call for service technician
	Obstacle in swing area	Remove obstacle and check door leaf for free movement
	Movement sensor keeps giving signal	Check movement sensor and call service technician if necessary
	Operating mode 'Permanently open'	Select different operating mode
	Current impulse switch gives signal	Press the button again to stop the signal
Display program switch cannot be operated	Display program switch is blocked	Operate the key switch for release
	Internal program switch is not set to position '0'	Switch internal program switch to position '0'
	Display program switch defective	Call for service technician
Display program switch displays BB	Connection between display program switch and control system is faulty	Call for service technician
	Display program switch or control system is defective	Call for service technician
Display program switch is dark	Mains failure	Check mains fuse
	Connection between display program switch and control system is faulty	Call for service technician
	Display program switch or control system is defective	Call for service technician
Display of error messages on the display program switch	Fault in the system	<ol style="list-style-type: none"> 1. Take note of error message. Up to 10 different error messages may be displayed in sequence. The display changes about every 10 seconds. 2. Call for service technician

6 Cleaning and maintenance



CAUTION! Danger of injury through impact and trapping!

- ➔ Disconnect the drive from 230 V network before carrying out any cleaning
- ➔ Secure the door leaves against unintentional movement before carrying out any cleaning
- ➔ The installation, servicing and maintenance work should be carried out by qualified technicians that are authorised by GEZE

Cleaning

What should be cleaned?	How should it be cleaned?
Safety sensor for closing (SIS) (e.g. light switch)	Wipe with a damp cloth
Glass areas	Wipe with cold water with vinegar and then dry
Rustproof surfaces	Wipe with a non-abrasive cloth
Paint-coated surfaces	Wipe with water and soap
Anodised surfaces	Wipe with non-alkaline soft soap (pH value 5.5 ... 7)
Display program switch	Wipe with a damp cloth, do not use cleansing agents

Maintenance

When the display shows a dot at the bottom right, servicing is required. In this case the service technician should be notified.

The organisation in charge has to ensure that the system works without faults.

GEZE offers the following maintenance contracts:

- Checking fastening elements for proper fixing
- Carrying out any other adjustments
- Carrying out a functional check
- Checking all safety and control devices of the door system
- Lubricating all moving parts

Checking by qualified personnel

In accordance with the 'Guidelines for power-operated windows, doors and gates' (BGR 232 and GUV 16.10) section 6, all power-operated doors have to be checked by qualified personnel prior to their first use and thereafter at least once a year to ensure that they are safe to operate.

7 Technical data

General data

Opening speed	0°/s ... 33 °/s
Closing speed	0°/s ... 33 °/s
Electric service connection	230 V; 50 Hz in accordance with DIN IEC 38
Rating	max. 300 W nominal output 230 W
Fuses	Mains connection 230 V: 10 A (by others)
Current consumption for external equipment	Connection 24 V DC; max. 1000 mA
Temperature range	-15°C to +50°C; only for dry rooms
Protection rating	IP 20

Subject to changes

Notes

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