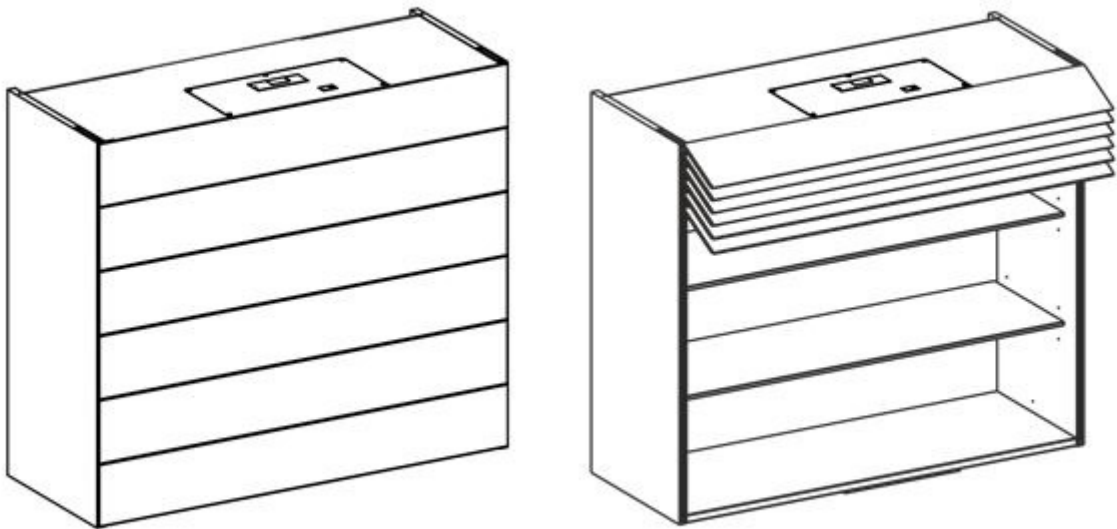


CLIMBER slat lifter





Operating Manual



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1. Warning signs and hazard symbols

 Hazard	<p>Hazard warning: This HAZARD symbol points out important safety information which it is imperative that you observe. Not observing the above can result in severe injuries or danger to life.</p>
	<p>Hazard warning: This HAZARD symbol points out important safety information which it is imperative that you observe. Not observing the above can result in severe injuries or danger to life.</p>
 Warning	<p>Warning notice: This WARNING NOTICE symbol points out important safety information which it is imperative that you observe. Ignoring them can result in injuries or major material damage.</p>
CAUTION	<p>Caution: This CAUTION symbol points out notes whose disregard can lead to material damage or early wear.</p>
	<p>Note: This NOTE symbol points out notes which you should observe.</p>

2. Safety

2.1 Principles

The CLIMBER slat lifter complies with the current state-of-the-art in safety technology. Despite this, certain residual risks still remain if this operation and assembly manual is not observed. Please therefore understand that the manufacturer can accept no liability or warranty




whatsoever for damages and consequential damages resulting from non-observance of the operation and assembly manual.

2.2 Safety information


- ⇒ This device may be used from children above eight years of age and also by persons with restricted physical, sensory or mental capabilities or a lack of experience and knowledge if they are supervised or have been instructed in the safe operation of the device and understand the hazards resulting from this. Children may not play with the device. Cleaning and user maintenance may not be carried out by children without supervision.
- ⇒ If the mains cable for this device is damaged, it must be replaced by the manufacturer or his's customer service or a similarly-qualified person in order to avoid hazards.
- ⇒ Only a qualified expert may install the CLIMBER slat lifter, and initial start-up may only be carried out in accordance with the operating manual.
- ⇒ The device may only be connected to an electricity network whose voltage, current type and frequency match the information contained in the technical data on page 13.
- ⇒ The mains socket must be fitted in the vicinity of the device and be freely accessible.
- ⇒ You must ensure that no moisture can penetrate the motor and the drive unit.
- ⇒ Always disconnect the device from the mains by removing the mains plug or switching the socket off before carrying out any repairs, maintenance work or cleaning.
- ⇒ Only clean the drive unit, the motor unit cover and the sensor field using a slightly moist cloth, since penetrating moisture and aggressive cleansing agents can damage the electronics in the motor unit and the sensor field.
- ⇒ Never reach inside the lever area during opening or closing movements.
- ⇒ Never reach into the area around the slats with your hand during closing.

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- ⇒ Only one slat lifter may be connected to each distribution cable.
- ⇒ When setting the device up, please note the drive temperature range (see page 13)

 Warning	<p>IMPORTANT SAFETY INFORMATION FOR THE SAFETY OF PERSONNEL IT IS IMPORTANT THAT THE INSTRUCTIONS CONTAINED IN THIS MANUAL FOLLOWED. THIS MANUAL MUST BE KEPT.</p>
	<p>DANGER TO LIFE CAUSED BY ELECTRIC SHOCK NEVER OPEN THE MOTOR HOUSING. NEVER CUT THE MAINS PLUG CONNECTED TO THE MAINS INCLUDED IN DELIVERY OFF, AND NEVER REPLACE IT WITH A DIFFERENT ONE. DANGER TO LIFE CAUSED BY ELECTRIC SHOCK!</p>
 Warning	<p>INJURY HAZARD IN LEVER AREA! NEVER REACH INTO THE LEVER AREA DURING OPENING OR CLOSING MOVEMENTS. THERE IS A RISK OF INJURY!</p>

2.3 Children

 Hazard	<p>RISK OF INJURY FOR CHILDREN DURING OPENING OR CLOSING OF THE SLAT LIFTER! PERSONS, ESPECIALLY CHILDREN, WHO SIT OR STAND ON THE WORKTOP CAN FALL FROM THE WORKTOP WHILE THE SLATS ARE OPENING AND CLOSING OR BE INJURED.</p> <ul style="list-style-type: none"> ⇒ ALWAYS SUPERVISE CHILDREN WHO ARE IN THE ROOM SO THAT THEY DO NOT PLAY WITH THE DEVICE.
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2.4 Intended use

The slat lifter is used for motorised up and down movement of horizontal slats which allow opening and closing by actuating the sensor field on a suspended cabinet, and may only be used under the following conditions:

- ⇒ As a wall cabinet for fixing to the wall with a bottom floor minimum height: 130 cm
- ⇒ In dry, enclosed rooms.
- ⇒ In connection with the manufacturer's motors and drive units within the permissible technical data.

The manufacturer assumes no liability for any other use.

2.5 Structural modifications and spare parts

Structural modifications and spare parts not approved by the manufacturer affect the safety and function of the CLIMBER slat lifter and are therefore not permitted.

- ⇒ Use only the manufacturer's spare parts.
- ⇒ Only qualified experts may fit or replace individual components, or carry out any cabling tasks.

2.6 Cleaning and activities on the wall cabinet



Danger to life caused by electric shock!

Danger to life caused by electric shock occurs if moisture penetrates inside the motor unit.

- ⇒ Ensure that neither water nor aggressive cleansing agents can wet the motor unit or the sensor field when cleaning the top cabinet.
- ⇒ Before cleaning, switch off the power socket to which the CLIMBER slat lifter is connected or disconnect the motor unit.

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⇒ Never open the motor unit.

2.7 Damage to drive unit or sensor field

- ⇒ Never dismantle a drive unit or a sensor field.
- ⇒ Sharp edges can lead to cable damage.
- ⇒ Always have damage to cables immediately repaired by a qualified electrician.

3 About this manual

Many thanks for your purchase! You have purchased a high quality product with the CLIMBER slat lifter.

Please follow the information below so that you can enjoy the comfort and safety of the CLIMBER slat lifter.

- ⇒ Please read the operation and assembly manual carefully through before use.
- ⇒ Keep the manual carefully in a safe place.
- ⇒ If you sell or pass on the CLIMBER slat lifter, please include the manual.

4 Validity and target group

This operation and assembly manual is aimed at all CLIMBER slat lifter users.

Assembly, adjustment, initial start-up, maintenance and dismantling may only be carried out by qualified experts in accordance with the assembly manual.

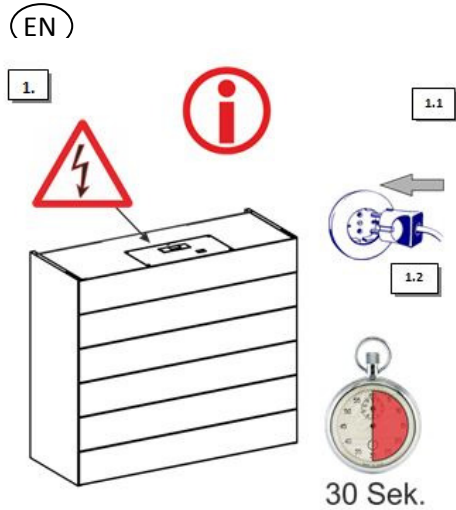
Dealing with assembly and operating manual

- ⇒ Please read the assembly instructions and the safety information before using the CLIMBER slat lifter.
- ⇒ Please refer to the section entitled assembly instructions for the individual assembly steps for the CLIMBER slat lifter.

6 Operation

The CLIMBER slat lifter is controlled by a sensor field which is attached to the underbody. If the sensor field is contacted, the slat lifter slats raise and lower themselves automatically in a vertical direction.

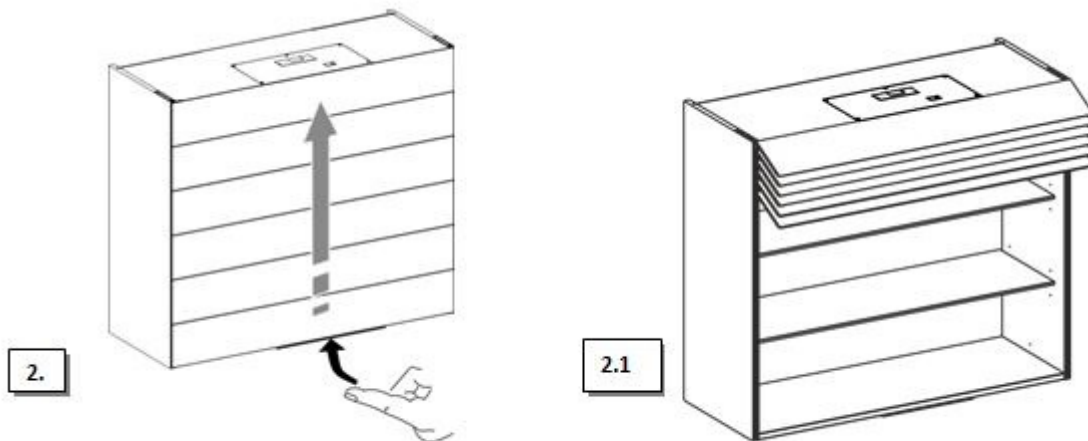
After the CLIMBER slat lifter has been properly installed by a suitable specialist and connected to the power circuit, it is imperative that a waiting period of 30 seconds is observed since the sensor field is blocked during this time. The sensor field cannot activate a switching command during this time. This time is required by the sensor field for self-calibration after being switched on, and so that no maloperation occurs.



The CLIMBER slat lifter drive can be operated in the following switching sequence by the sensor field: UP, STOP, DOWN, STOP, UP etc.

6.1 Opening the CLIMBER slat lifter

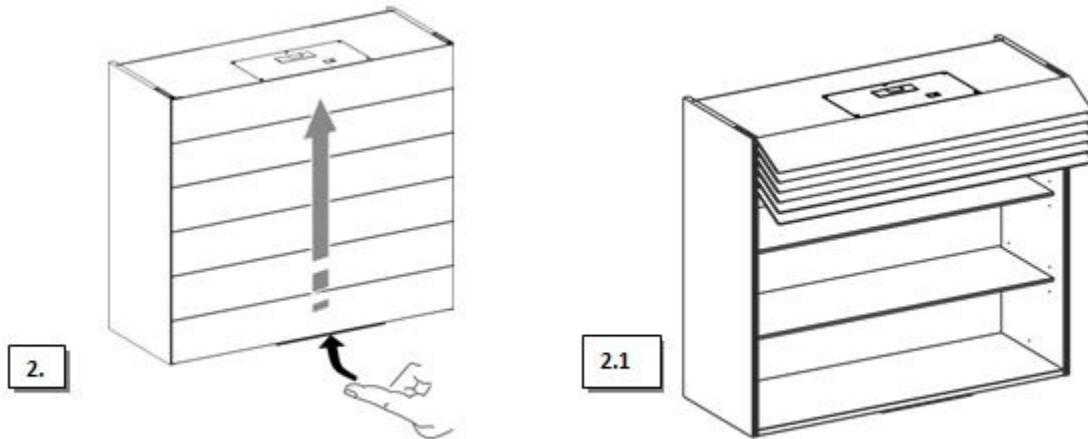
If the slat lifter is in the closed position, you only need to touch the sensor field and the slats will raise.



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6.2 Closing the CLIMBER slat lifter attachment

If the slat lifter is in the open position, you only need to touch the sensor button again and the slats will lower.



7. Safety switch-off

The drive is fitted with a safety switch-off in the UP and DOWN directions.

7.1 Safety switch-off in UP direction

If the slats are moving in the UP direction and are blocked, or the block recognition activates due to increasing force requirements, the motor is briefly switched off and reversed using a power switch-off.

7.2 Safety switch-off in DOWN direction

As soon as the slats meet an obstacle in the DOWN direction, the motor stops and reverses a little. This reverse movement is not carried out in vicinity of the bottom (approx. 5cm), but only above this. The next travel direction is then UP.

8. Malfunctions

Malfunction	Possible cause	Remedy
The slats do not open or close completely	Installation error	<ul style="list-style-type: none"> ⇒ Check to ensure that the Climber has been installed horizontally and vertically. ⇒ If the Climate is not horizontal or vertical, please have it correctly installed by your customer service. ⇒ After this, carry out a reset.
	Software error	<ul style="list-style-type: none"> ⇒ Carry out a reset to factory settings.
If a sensor field is touched the slats open a few centimetres and then close again.	Slack cable detection activated.	<ul style="list-style-type: none"> ⇒ Carry out a reset to factory settings.
The slats do not react if a sensor field is touched.	The maximum runtime in continuous operation was reached.	<ul style="list-style-type: none"> ⇒ Wait at least 12 minutes, after this the motor can be run again (page 9 runtime limitation)
	The motor unit is not connected to the power	<ul style="list-style-type: none"> ⇒ If necessary, plug the motor unit plug into the mains socket.
	Power failure	<ul style="list-style-type: none"> ⇒ Check the fuses. ⇒ If necessary, consult a qualified electrician.
	Motor unit is defective	<ul style="list-style-type: none"> ⇒ If necessary, have the motor unit replaced by the dealer customer service.
	Cabling is defective	<ul style="list-style-type: none"> ⇒ Have the defect repaired by the dealer customer service.
Slats are tilted, opening and closing is no longer possible Intermediate position not saved.	Belt is torn	<ul style="list-style-type: none"> ⇒ Disconnect motor unit from mains ⇒ The motor may no longer be operated. ⇒ Have the defect repaired by the dealer customer service. <p>Carry out a "RESET to factory settings" according to the description and re-save the end position.</p>
The drive can only be run upwards or stopped	Reference run	<ul style="list-style-type: none"> ⇒ A reference to the top end position is necessary, after this the slat lifter can be run normally

9. Spare parts

Order spare parts from your retailer or furniture supplier.

10. Disposal

Dismantling of the CLIMBER slat lifter may only be carried out by qualified experts in accordance with the separate assembly instructions. Dispose of all CLIMBER slat lifter electronic components in accordance with local regulations using separate collection for electrical and electronic devices.

11. Technical data

Slat lifter type designation:	EL2-4
Motor:	230 V DC motor
Nominal torque:	7Nm
Maximum speed:	36 rpm
Force:	max. 2x100N
Voltage:	230V AC (+/- 10%) / 50Hz / 60Hz
Power rating:	60W
Surrounding temperature range:	10°C to 40°C
Connection drive/suspension:	2x4mm flat belts
Short-term operation:	KB 5 Min. or 6 operational cycles
Protection class:	II
Protection type:	IP20
Noise:	<70 dBa
Load capacity per glass shelf:	15 Kg up to 900 mm or 13 Kg up to 1000 mm cabinet width
Dimensions:	sticker at this location

Only use in dry, closed rooms!

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EC Declaration of Conformity **EC Declaration of Conformity**

We, Ludewig GmbH, Wiehenstraße 167, D-32257 Bünde,
declare on our own responsibility that the product:

"Cabinet with factory-mounted electronic slat lifter"


which this declaration refers to, complies with the following EU Directives

Machinery Directive	2006/42/EU
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU

The following harmonised European standards were referred to for professional
implementation of the requirements stated in the above EU Directives:

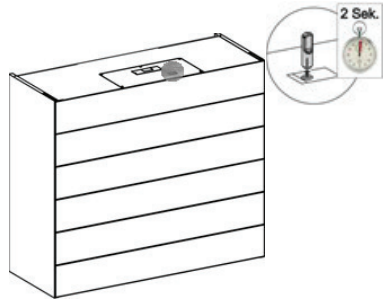
EN 60335-1:2012-10 (Software class R1)
EN 60335-2-103:2015
EN 13849-1:2008-12
EN 13849-2:2008-09
EN 55014-1 (emitted interference)
EN 55014-2 (interference immunity)
EN 14749

The CE marking has been applied to the product!


Bünde, 09.05.2016

1. Deleting all settings (reset)

There are **2 methods** of resetting the Climber motor to the factory settings:

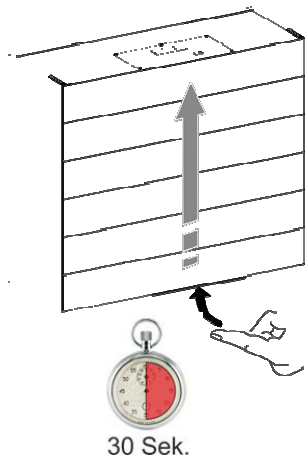


Method 1: hold the supplied magnets over the red point on the motor (reed contact) for 2 seconds.

The drive acknowledges the deleting process by briefly starting up the curtain. The motor is now ready for teaching (**continue with Point 2**).

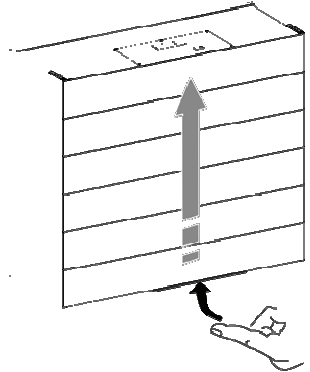
Method 2: While the curtain is moving upwards, operate the sensor once again and keep your finger on the sensor for 30 seconds without removing it.

The drive acknowledges the deleting process by briefly starting up the curtain. You can now remove your finger from the sensor. The motor is now ready for teaching (**continue with Point 2**).



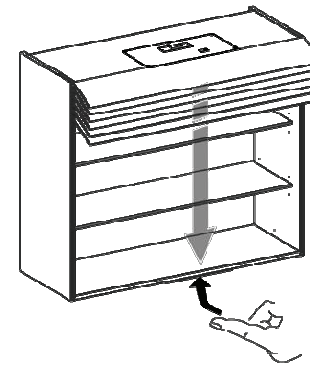
2. Teaching the motor

2.1 Teaching top end point.



To teach the top end point, you must operate the sensor again and hold it. The curtain will then run up to the end point at low speed. The curtain then runs downwards for a short distance once the end point has been reached. The top end point is now confirmed.

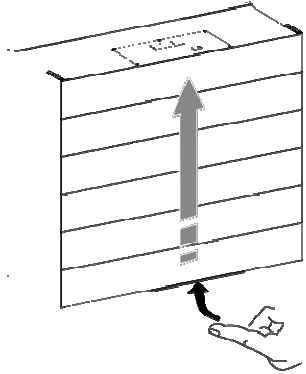
2.2 Teaching bottom end point.



To teach the bottom end point, you must operate the sensor again and hold it. In this case, the curtain runs automatically downwards until it reaches the bottom end point. The curtain opens briefly, and the bottom end point is now confirmed.

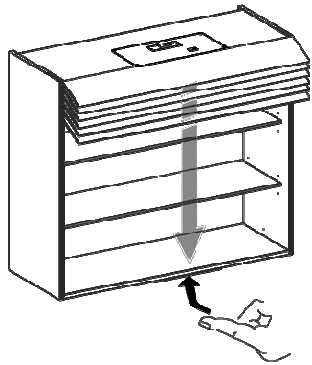
2. Teaching the motor

2.3 Teaching the motor tractive force.



The last thing to do is to teach the motor tractive force. First you have to actuate the sensor and hold it until the curtain has opened completely. This time, the curtain remains in the completely opened condition.

The motor is now taught!



You can now completely close the curtain by touching the sensor briefly.