

# User instructions



WAREMA smart programming cable

***Der SonnenLichtManager***

For qualified technicians only

# Information on safety

## 1 Information on safety



- Read through the product instructions before use.
- Observe all safety and setting instructions.



The basic safety instructions can be viewed under ([www.warema.de/Sicherheitshinweise](http://www.warema.de/Sicherheitshinweise)).

### Target group

These instructions are intended for use by qualified fitters (commissioning) and electricians (connection work).

### Intended use

The information below applies to the following product: smart programming cable

The product is only intended for the setting and commissioning of drives in WAREMA sun shading products.

- Tubular motor 230 V
- Block motor 230 V



### INFO

An exact list of drives can be found under Help in the app.

## 2 Structure and accessories

Programming cable smart Art. no. 2010652		<ol style="list-style-type: none"> <li>1 Function buttons</li> <li>2 Push buttons</li> </ol>
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Adapter Art. no. 2017760		Adapter STAS 4 to STAK 3
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Adapter Art. no. 2017761		Adapter STAS 3 to open end
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Adapter Art. no. 2017764		Adapter STAS 4 to open end  (not included; must be ordered separately)
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Designation	Art. no.
Adapter connector for the British standard connector system (IP 20)	627189
Adapter connector for the Swiss socket system (IP 20)	627188

Tab. 1: Optional accessory

### 3 Explanation of function buttons

Motor function button	<p><b>i</b> <b>INFO</b> This mode is for standard 230 V motors with mechanical or electronic limit switch-off (e.g. GJ56..., ZM REA). <b>Not permissible</b> for motors with an integrated SMI module, 2 MW motors or WMS Comfort control.</p>		
		<p>1 UP button 2 DOWN button 3 PROG button 4 Not assigned</p>	<p>UP command DOWN command Simultaneous UP/DOWN command (not for mechanical limit switch-off)</p>
Motor with radio function button	<p><b>i</b> <b>INFO</b> This mode is only for EWFS/WMS radio motors.</p>		
		<p>1 UP button 2 DOWN button 3 PROG button 4 SET button</p>	<p>UP command DOWN command Delete the limit positions Saving the limit positions</p>
Smart function button	<p><b>i</b> <b>INFO</b> This mode is for operation via the smartphone app (<a href="#">see "Smartphone app function"</a>).</p>		
		<p>1 Not assigned 2 Not assigned 3 Not assigned 4 Not assigned</p>	



**NOTICE**

Product damage from incorrect operation!

The mode must fit to the drive. If not, the smart programming cable may be damaged.

For mechanical drives, the PROG button is not permitted to be activated as otherwise the drive, sun shading product and/or the smart programming cable may be damaged.

# Downloading the app

## 4 Downloading the app

### iOS (operating system)

Download the required "WAREMA smart programming cable" in the App Store (iOS).

### Android (operating system)

Download the required "WAREMA smart programming cable" in the Google Play.

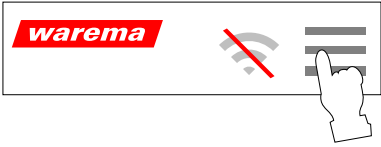
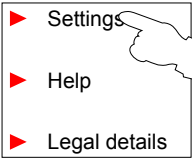
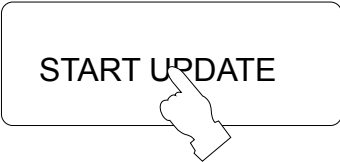

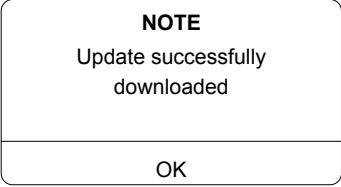

## 5 Updating the database

### Why? How often?

The instructions and the "control mode" setting logics are made available in the database.

The data must be downloaded for initial installation and updated at regular intervals.

### Procedure


Updating the database	Opening the settings		→	<ul style="list-style-type: none"> <li>▶ Settings</li> <li>▶ Help</li> <li>▶ Legal details</li> </ul> <p>↳ The pull-down menu opens.</p>
	Opening the update		→	<div style="border: 1px solid black; padding: 10px; width: fit-content; margin: 0 auto;">START UPDATE</div> <p>↳ The area opens.</p>
	Starting the download		→	<div style="border: 1px solid gray; padding: 10px; width: fit-content; margin: 0 auto; text-align: center;">  </div> <p>↳ The data are transferred.</p>
	Ending the download		→	<div style="text-align: center; margin-bottom: 5px;">  </div> <p>↳ The download is completed.</p>



### INFO

Recommendation: download via WLAN with Internet connection

## 6 Technical data

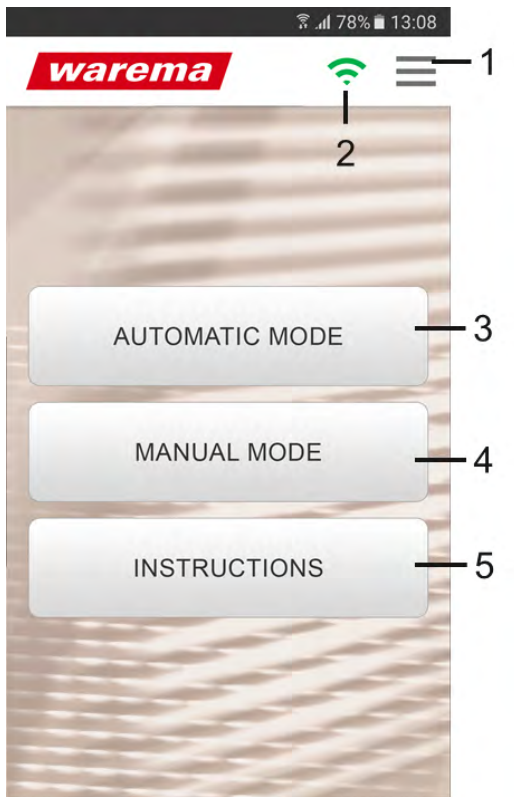





Parameter	Values
<b>Supply</b>	
Rated voltage	230 V/50 Hz
Power consumption	2 W
<b>Output</b>	
Switching capacity at 230 V AC/cosφ = 0.6	500 VA
<b>WLAN transceiver</b>	
Transmission frequency	2.40 to 2.48 GHz
Operating range (environment without interference)	10 m
<b>Housing</b>	
Degree of protection	IP 54
Safety class	I
<b>Ambient conditions</b>	
Operating temperature	-10 to +50 °C
<b>Product conformity</b>	
Specified under <a href="http://www.warema.com">www.warema.com</a>	

## 7 Establishing the connection

The smartphone must be manually connected to the WLAN of the smart programming cable.

WLAN name: WAREMA [xxxx]  
 Password: warema5858

## 8 Smartphone app function

Main menu		<p><b>1 Menu</b></p> <ul style="list-style-type: none"> <li>• Settings</li> <li>• Help PDF</li> <li>• Legal details</li> </ul> <p><b>2 Status display</b></p> <ul style="list-style-type: none"> <li> = Programming cable is connected</li> <li> = Fault: connect the second smartphone to the programming cable</li> <li> = Fault: not connected to the programming cable</li> <li> = Fault: wrong function button activated on the device</li> </ul> <p><b>3 Control mode</b></p> <ul style="list-style-type: none"> <li>• Menu-guided setting mode</li> </ul> <p><b>4 Manual mode</b></p> <ul style="list-style-type: none"> <li>• Manual remote control</li> </ul> <p><b>5 Instructions</b></p> <ul style="list-style-type: none"> <li>• Standard instructions as a PDF</li> </ul>
Menu - Settings		<p><b>1 Setting the language</b></p> <ul style="list-style-type: none"> <li>• German</li> <li>• English</li> </ul> <p><b>2 Update</b></p> <ul style="list-style-type: none"> <li>• The app data and instructions can be updated here.</li> </ul> <p><b>3 Vibration when the button is pressed</b></p> <ul style="list-style-type: none"> <li>• A haptic feedback can be set here, but this increases battery consumption.</li> </ul>

Menu - Legal details		<p><b>1 WAREMA Smart version xx</b></p> <ul style="list-style-type: none"> <li>Here you can check which version of the app is installed.</li> </ul> <p><b>2 Last update</b></p> <ul style="list-style-type: none"> <li>Here you can check when the app data and instructions were last updated.</li> </ul>
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**8.1 Control mode**

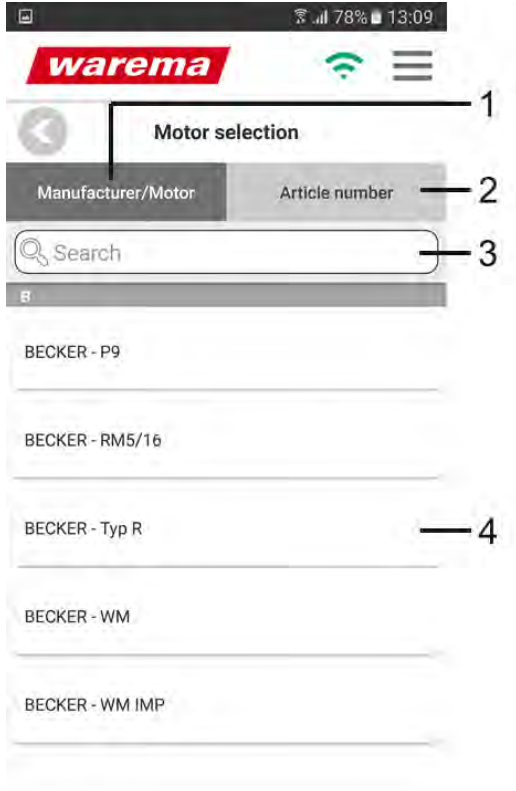
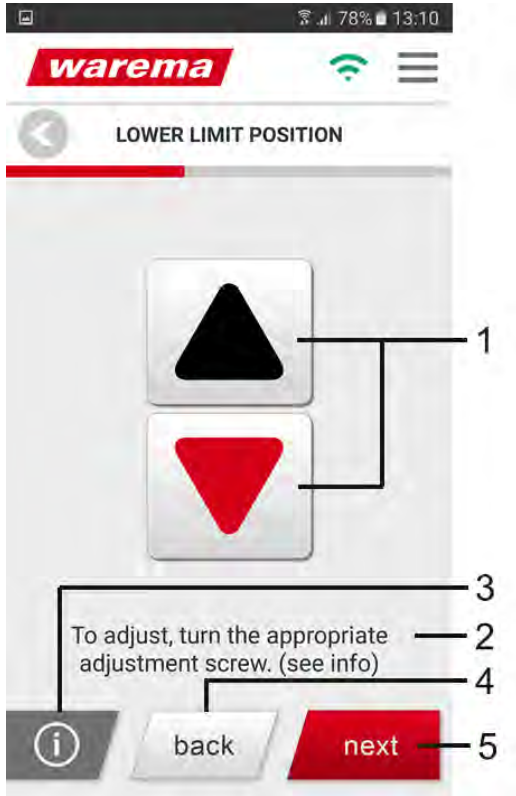
**List of saved motors**

WAREMA	Becker	Somfy
From 2017-03-16 ▶ WMS-RT ▶ WMS-RP ▶ WMS-ZM ▶ WMS-ZP ▶ WMS-MM ▶ WMS-MP ▶ WMS-WM ▶ W-RT ▶ W-RM ▶ W-ZM ▶ W-MM ▶ W-MP ▶ W-WM	From 2017-03-16 ▶ Type R ▶ RM5 ▶ ZM ▶ ZM REA ▶ WM ▶ WM REA ▶ WM IMP ▶ WT ▶ ZM9  From 2017-04-13 ▶ P9  From 2018-02-08 ▶ RT+ ▶ RM8	ab 2017-03-16 ▶ Orea WT ▶ Orea WT WMS-Komfortsteuerung  From 2017-04-13 ▶ LT 50/60 ▶ Sonnesse 50 ▶ LT 50 PA ▶ LS 40 ▶ Sonnesse 40  From 2018-02-08 ▶ Oximo WT ▶ J4 HTM

Geiger	Dunker	Miscellaneous
From 2017-04-13 ▶ GJ56..	From 2017-04-13 ▶ D249/259/349/359  From 2018-02-08 ▶ D370	From 2017-04-13 ▶ Formaroll MEC 1000  From 2018-02-08 ▶ WMS double PowerUP ▶ Elero JA soft/dk

# Smartphone app function

## Explanation of functions

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Control mode - Motor selection</p>		<ol style="list-style-type: none"> <li><b>1 Motor selection via manufacturer/motor</b> <ul style="list-style-type: none"> <li>Here the motors are specified in full text, i.e. "Manufacturer - Type".</li> </ul> </li> <li><b>2 Motor selection via article number</b> <ul style="list-style-type: none"> <li>The WAREMA article numbers of the motor are displayed here.</li> </ul> </li> <li><b>3 Search field</b> <ul style="list-style-type: none"> <li>Here you can search or filter for the name or article number.</li> </ul> </li> <li><b>4 Motors</b> <ul style="list-style-type: none"> <li>Here you can select a motor directly by touching the field briefly.</li> </ul> </li> </ol>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Control mode - Example of screen</p>		<ol style="list-style-type: none"> <li><b>1 Function buttons</b> <ul style="list-style-type: none"> <li>Push buttons and function buttons appropriate for the step are displayed here.</li> </ul> </li> <li><b>2 Action description</b> <ul style="list-style-type: none"> <li>Descriptions appropriate for the step are displayed here.</li> </ul> </li> <li><b>3 Info field</b> <ul style="list-style-type: none"> <li>Information appropriate for the step, such as how to set a limit position, is displayed here.</li> </ul> </li> <li><b>4 Back button</b> <ul style="list-style-type: none"> <li>Information appropriate for the step, such as how to set a limit position, is displayed here.</li> </ul> </li> <li><b>5 Next button</b> <ul style="list-style-type: none"> <li>The Next button opens the next screen. This screen is only displayed or enabled if you are permitted to continue.</li> </ul> </li> </ol> <p><b>INFO</b> The structure of this page differs from motor to motor.</p>



8.2 Manual mode

Standard mode	Radio mode	SMI mode
This mode is for standard 230 V drives with a mechanical or electronic limit switch-off, e.g. type R, GJ56..., LT50, etc.	This mode is for drives with an integrated EWFS/WMS radio module from WARE-MA, e.g. W-RT, WMS-RT, etc.	This mode is for 230 V drives with an integrated SMI module, e.g. D370 SMI, R./17C PS SMI, etc.
WMS Comfort control mode	2 lower limit switches mode	
This mode is for the WMS Comfort control in awnings to set the limit position of the motor and configure the control.	This mode is for 230 V drives with 2 lower limit switches, e.g. Dx58, etc.	

Functional description

Manual mode - Info field

- 1 Description**
  - The current manual mode is specified here.
- 2 Explanation**
  - Descriptions appropriate for the respective manual mode are displayed, e.g. for which motors the mode is intended and the functions of the individual buttons.
- 3 Cancel button**
  - The Cancel button takes you back to the main menu.
- 4 OK button**
  - Confirming the OK button takes you to the push buttons.
- 5 Selection mode**
  - = Standard mode
  - = Radio mode
  - = SMI mode
  - = WMS Comfort control mode
  - = 2 lower limit switches mode

# Smartphone app function

<p>Manual mode - Operating level</p>		<p><b>1 Info field</b></p> <ul style="list-style-type: none"> <li>Here the info field can be called up again with the explanations.</li> </ul> <p><b>2 Function buttons</b></p> <ul style="list-style-type: none"> <li>The function buttons that are appropriate for the respective manual mode are displayed here.</li> </ul>
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## 8.3 Searching for the instructions

<p>Instructions - Selection</p>		<p><b>1 Search field</b></p> <ul style="list-style-type: none"> <li>Here you can search or filter for the name "Manufacturer_Type_Document_Number".</li> </ul> <p><b>2 Instructions</b></p> <ul style="list-style-type: none"> <li>Here you can select a motor directly by touching the field briefly.</li> </ul>
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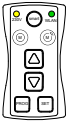
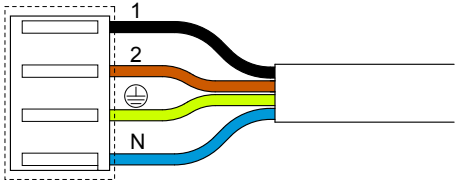
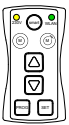
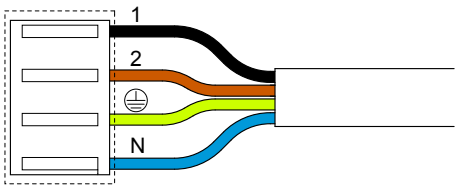
## 9 Wiring diagram



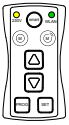
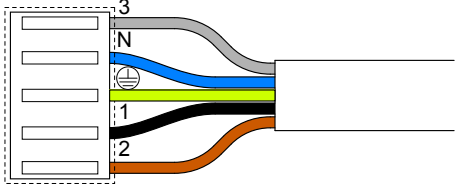
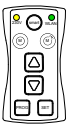
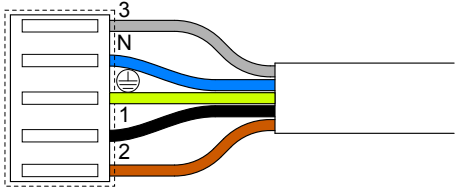
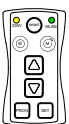
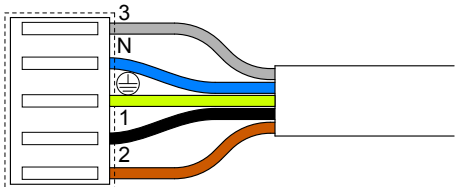
### NOTICE

Product damage from incorrect connection. Do not connect multiple motors in parallel.

### 4-pin adapter

Programming cable	Adapter assignment for standard 230 V motors									
		<table border="1"> <tr> <td>1</td> <td>UP command (black)</td> </tr> <tr> <td>2</td> <td>DOWN command (brown)</td> </tr> <tr> <td></td> <td>PE conductor (green-yellow)</td> </tr> <tr> <td>N</td> <td>Neutral conductor (blue)</td> </tr> </table>	1	UP command (black)	2	DOWN command (brown)		PE conductor (green-yellow)	N	Neutral conductor (blue)
1	UP command (black)									
2	DOWN command (brown)									
	PE conductor (green-yellow)									
N	Neutral conductor (blue)									
Programming cable	Adapter assignment of EWFS/WMS radio motor									
		<table border="1"> <tr> <td>1</td> <td>Continuous voltage (black)</td> </tr> <tr> <td>2</td> <td>Programming command (brown)</td> </tr> <tr> <td></td> <td>PE conductor (green-yellow)</td> </tr> <tr> <td>N</td> <td>Neutral conductor (blue)</td> </tr> </table>	1	Continuous voltage (black)	2	Programming command (brown)		PE conductor (green-yellow)	N	Neutral conductor (blue)
1	Continuous voltage (black)									
2	Programming command (brown)									
	PE conductor (green-yellow)									
N	Neutral conductor (blue)									

### 5-pin adapter

Programming cable	Adapter assignment for 230 V motors with integrated SMI module											
		<table border="1"> <tr> <td>3</td> <td>UP command (grey)</td> </tr> <tr> <td>N</td> <td>Neutral conductor (blue)</td> </tr> <tr> <td></td> <td>PE conductor (green-yellow)</td> </tr> <tr> <td>1</td> <td>DOWN command (black)</td> </tr> <tr> <td>2</td> <td>Continuous voltage (brown)</td> </tr> </table>	3	UP command (grey)	N	Neutral conductor (blue)		PE conductor (green-yellow)	1	DOWN command (black)	2	Continuous voltage (brown)
3	UP command (grey)											
N	Neutral conductor (blue)											
	PE conductor (green-yellow)											
1	DOWN command (black)											
2	Continuous voltage (brown)											
Programming cable	Adapter assignment for WMS Comfort control											
		<table border="1"> <tr> <td>3</td> <td>Continuous voltage (grey)</td> </tr> <tr> <td>N</td> <td>Neutral conductor (blue)</td> </tr> <tr> <td></td> <td>PE conductor (green-yellow)</td> </tr> <tr> <td>1</td> <td>UP command (black)</td> </tr> <tr> <td>2</td> <td>DOWN command (brown)</td> </tr> </table>	3	Continuous voltage (grey)	N	Neutral conductor (blue)		PE conductor (green-yellow)	1	UP command (black)	2	DOWN command (brown)
3	Continuous voltage (grey)											
N	Neutral conductor (blue)											
	PE conductor (green-yellow)											
1	UP command (black)											
2	DOWN command (brown)											
Programming cable	Adapter assignment for 230 V motors with 2 lower limit switches											
		<table border="1"> <tr> <td>3</td> <td>DOWN 2-command (grey)</td> </tr> <tr> <td>N</td> <td>Neutral conductor (blue)</td> </tr> <tr> <td></td> <td>PE conductor (green-yellow)</td> </tr> <tr> <td>1</td> <td>DOWN 1-command (black)</td> </tr> <tr> <td>2</td> <td>UP command (brown)</td> </tr> </table>	3	DOWN 2-command (grey)	N	Neutral conductor (blue)		PE conductor (green-yellow)	1	DOWN 1-command (black)	2	UP command (brown)
3	DOWN 2-command (grey)											
N	Neutral conductor (blue)											
	PE conductor (green-yellow)											
1	DOWN 1-command (black)											
2	UP command (brown)											

## Possible faults

### 10 Possible faults

Fault: 230 V LED does not light up		
Cause	Note	Remedy
No voltage is applied.		Check or change the power supply/power socket.
The device fuse was triggered.	The fuse must be changed by WAREMA as the warranty will otherwise become void.	Ship the device to WAREMA.

Fault: the motor begins moving without being activated, is buzzing or is making unusual noises.		
Cause	Note	Remedy
A relay is stuck.	This can be caused by incorrect operation or selection of the wrong motor.	Ship the device to WAREMA.

Fault: smart function - WLAN LED flashes slowly		
Cause	Note	Remedy
No smartphone is connected to the programming cable.		Connect to WLAN ( <a href="#">see Chapter 7/ Page 5</a> ).

Fault: smart function - WLAN LED flashes rapidly		
Cause	Note	Remedy
Two smartphones are connected to the programming cable.	Only one smartphone at a time can control the programming cable.	Disconnect the WLAN connection of the second smartphone.

Fault: smart function - very short move commands are not executed correctly.		
Cause	Note	Remedy
Time offset between keystroke and execution of the command.	This problem can occur for commands shorter than 1 s and only in the app in manual mode.	Start the setting procedure again and hold the button for an extended period.

<b>Fault: motor function (standard) - mode cannot be activated</b>		
<b>Cause</b>	<b>Note</b>	<b>Remedy</b>
A second button is pressed at the same time.	To be able to change the mode, no other button is permitted to be pressed. If this fault occurs, only smart mode will work.	Check if a second button is being pressed.
One button on the membrane keyboard is faulty.	To be able to change the mode, no other button is permitted to be pressed. If this fault occurs, only smart mode will work.	Ship the device to WAREMA.

<b>Fault: radio motor function - mode cannot be activated</b>		
<b>Cause</b>	<b>Note</b>	<b>Remedy</b>
A second button is pressed at the same time.	To be able to change the mode, no other button is permitted to be pressed. If this fault occurs, only smart mode will work.	Check if a second button is being pressed.
One button on the membrane keyboard is faulty.	To be able to change the mode, no other button is permitted to be pressed. If this fault occurs, only smart mode will work.	Ship the device to WAREMA.

<b>Fault: radio motor function - motor moves up automatically as soon as the mode is active.</b>		
<b>Cause</b>	<b>Note</b>	<b>Remedy</b>
No radio motor is connected.	In the radio mode, a continuous voltage is applied to UP, which is why a standard motor moves UP directly.	Select the standard mode.

<b>Fault: radio motor function - motor cannot be operated/set.</b>		
<b>Cause</b>	<b>Note</b>	<b>Remedy</b>
The radio motor can no longer be set via the cable.	The motor is only in the setting mode for a certain period after a power up.	Disconnect the programming cable from power for 10 s to de-energise the motor and then repeat the setting procedure.

<b>Fault: instructions cannot be opened</b>		
<b>Cause</b>	<b>Note</b>	<b>Remedy</b>
No PDF reader or an incompatible PDF reader is in use.		Install a PDF reader from the App Store and try again.

