

CBA UP

Casambi blind actuator



Manual EN

Valid from version:
(H=Hardware | F=Firmware)

10.750	-	CBA UP	H2 F2.5
10.752	-	CBA UP	H1 F2.5

10752_MA_en_A4_CBA-UP_20210310

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1. General information

1.1 About this Document

Congratulations and thank you for choosing this maintronic product and the trust you have placed in us. We, the team of maintronic, wish you a lot of fun with this product.

Due to continuous product development, some of the information may not be complete and up-to-date.

The information in this document is subject to change without prior notice. Please check our website www.maintronic.de, if there is a newer version.

1.2 Service and contact

You can find information, onlinehelp as well as downloads for the product on our website. Contact us if you have any problems or questions about your device.

1.3 Legals

The division building automation and all associated products are products of MTC maintronic® GmbH (hereafter maintronic). All rights reserved, as well as mistakes and typing errors.

The trademarks and trade names mentioned in this document are the property of their respective owners.

The content in this document is for product information purposes only. Product features may vary during continuous product development and may change at any time without notice.

maintronic assumes no liability or warranty regarding this document or the products described.

1.4 Symbol explanation



DANGER

The signal word „DANGER“ indicates an imminent danger. If not avoided, death or serious injury will result.



WARNING

The signal word „WARNING“ indicates a possibly imminent danger. If it is not avoided, death or very serious injuries may result.



CAUTION

The signal word „CAUTION“ indicates a possibly imminent danger. If it is not avoided, slight or minor injuries may result.



ATTENTION

The signal word „ATTENTION“ indicates a situation that can lead to material damage. Either to the product itself or to other objects in the environment.



NOTE

The signal word „NOTE“ indicates tips and recommendations to help you get the most out of the product.

2. Safety information



For your own safety, read all instructions and information in this manual carefully before initial operation. Keep this manual for future reference.

The instructions are an integral part of the product and must be handed to the end customer.

All information and instructions in this manual must be observed completely and in detail. The manufacturer is not responsible for any direct or consequential damage that results from disregarding any information in this manual.



Waste disposal

In accordance with European Directive 2002/96/EC (it's) not longer usable electronic devices and defective or used batteries (European Directive 2006/66EG) must be collected separately and disposed of by an environmentally sound recycling.

This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.

Should these product are no longer be useable, the user is required by law to dispose of old appliances separately from their household waste e. g. at a local authority collection point or recycling center.



CE-marking

The devices comply with the EU directives applicable at the time they are placed on the market.



The unit must only be installed and serviced by a proven electrician specialist, in accordance of all relevant regulations, safety and accident prevention directives of the country.

Be sure that the existing mains voltage corresponds with the specified operating voltage before operating the device.

Risk of electric shock. Do not operate the device without a cover. Even when switched off, voltage may be present at the outputs. When working on the device or connected loads, always disconnect the upstream fuse from the power supply.

Apply the „Five Safety Rules“ (DIN VDE 0105, EN 50110):

1. Disconnect
2. Secure against being switched on again
3. Determine absence of voltage
4. Ground and short circuit
5. Cover or isolate nearby live parts

Only install the device in places with a good ventilation and without humidity or high temperatures. Do not expose the unit to rain or snow. Do not operate the unit near heat sources, e.g. radiators.

If any of the following occurs, do not operate the device without first checking it:

- if objects have fallen or liquid has been spilled into the unit.
- if the device has been exposed to rain.
- if the device does not operate normally or with altered characteristics.
- if the device has been dropped or has a broken housing.

For cleaning only use a dry, soft cloth, by no means liquids.

3. Product description

3.1 Intended Use

Casambi blind actuator for control of blind, shutter, gate, or awning motors. Control by Casambi Bluetooth via APP or local control using standard blind pushbuttons.

- For indoor use only
- Flush mount housing for installation in junction, cavity or switch boxes.

3.2 Functions

The blind actuator CBA UP Casambi has a Bluetooth Casambi interface and can be operated via smartphone with the Casambi APP.

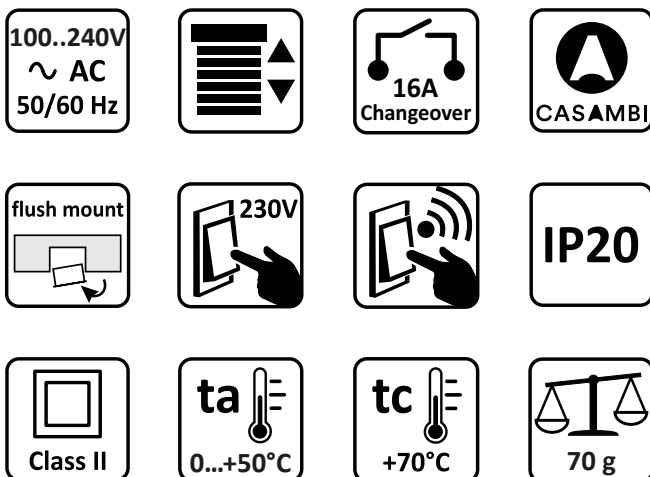
Casambi App automatically identifies the device and can be integrated into existing networks.

The device has different operating modes (so-called Casambi profiles) with the profiles the functionality and the parameters are determined. Casambi profile must be selected in the Casambi APP when pairing a device in order to select a specific operating mode.

As soon as the device is added to your network, it can be operated. Groups can be formed, scenes and timers can be created.

These functions allow e.g. to group 5 blinds on one side of a building and to operate them together. In addition, automated up and down movements can be programmed as a time-controlled scene.

If you need help with configuration and operation of Casambi please refer to the official Casambi help at: <https://support.casambi.com>



Product	Item.No.	Type of relay	Construction
CBA UP	10.750 EOL	2 CH Changeover	Flush-mounted housing (UP)
CBA UP	10.752	2 CH Changeover; 2 pushbutton inputs	Flush-mounted housing (UP)

Item 10.752 - CBA UP has 2 additional key inputs compared to the 10.750 all other functions are identical.

3.4 Operating notes

There are different methods to operate the blind actuator.

Driving over driving time

In the case of driving over the driving time, a single impulse (e.g. pressing a button or starting a time-controlled scene) triggers the blind/shutter etc. to move once to the zero point(OT) 0% or end point(UT) 100%.

This driving time is stored in the parameters of the actuator once and then recalled (see 4.4).

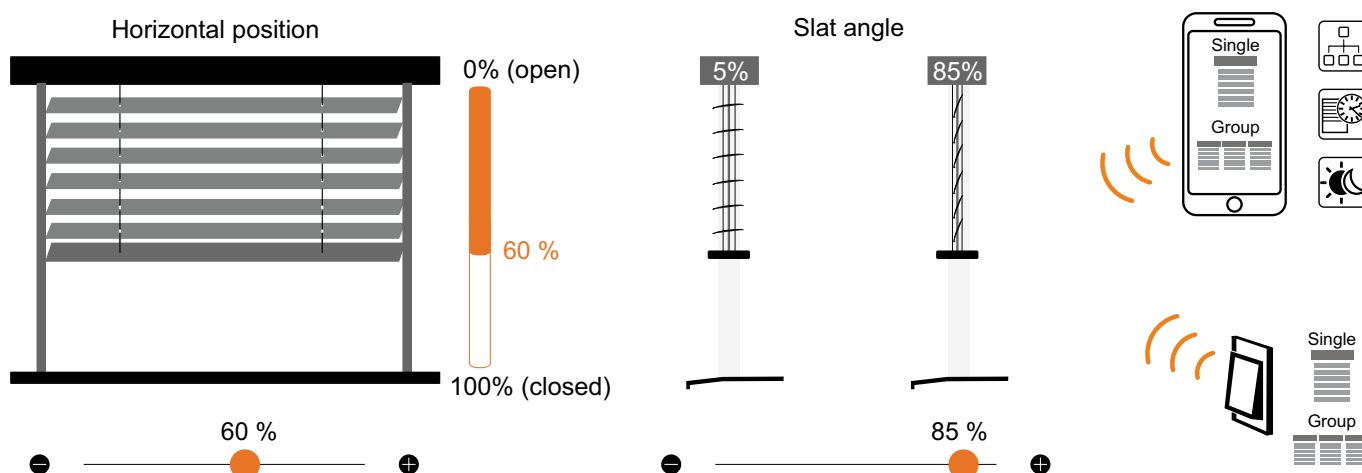
Driving to an absolute position

With a drive to an absolute position, any horizontal position can be approached. The absolute position is controlled by a slider (from OT 0% to UT 100%), which determines the position of the connected blind / shutter, etc..

Slat adjustment

A slider can be used to adjust the angle of the slats for venetian blinds. Furthermore, the slat position is stored when moving to an absolute position and the set value is automatically readjusted after reaching the driving position.

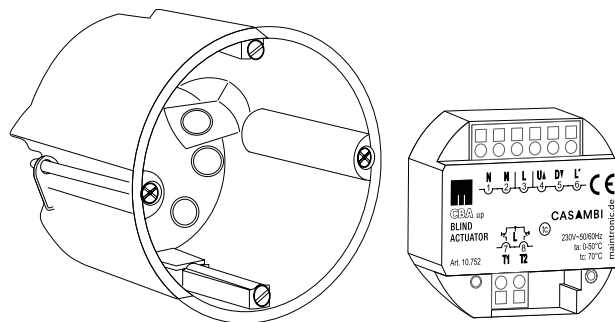
For example, if the blind shall be moved down only a little bit and the slats are set to 5%. Then after reaching the target position, the slats are set to 5% again.



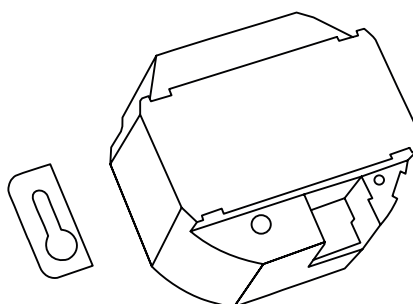
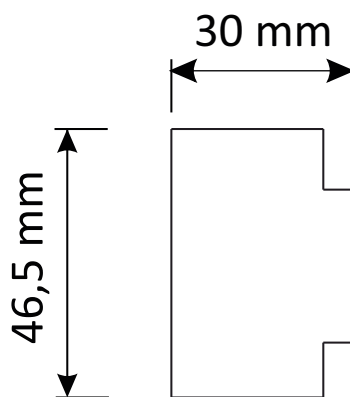
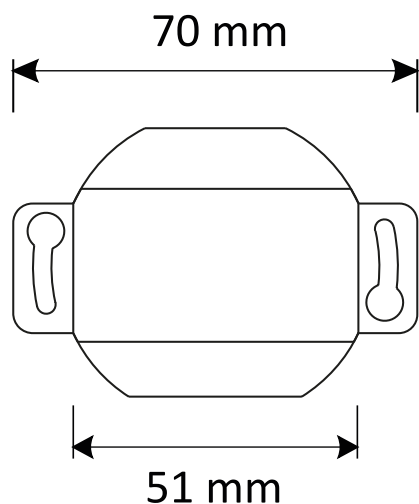
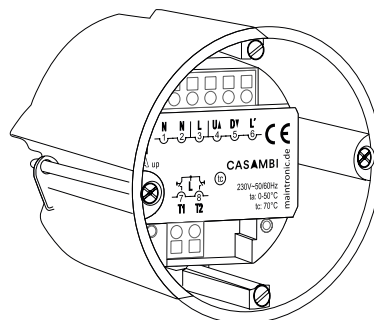
3.3 Installation and dimensions

Even though the device has very compact dimensions, it is strongly recommended to use the deepest junction boxes possible.

Depending on which pushbutton attachments are used, up to 30 mm of additional installation space is required.



For installation in cavity or switch boxes, the side flaps have to be removed. Install the device with the labeling, LED and device buttons facing forwards.

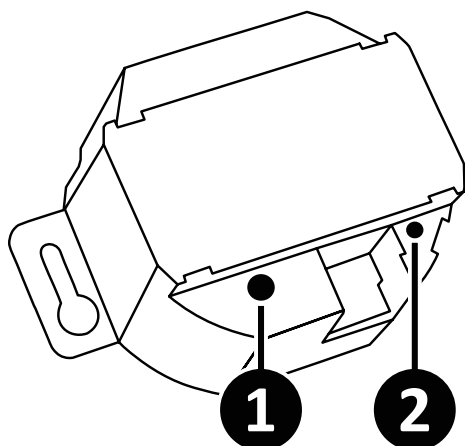


removeable flaps

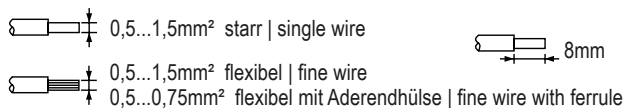
3.5 Connections and elements

1	N	Neutral conductor	4	▲	Relay up
2	N	Neutral conductor	5	▼	Relay down
3	L	Input Voltage 230V AC	6	L'	Release phase for standard blind button
7	T1	Pushbutton input 1	8	T2	Pushbutton input 2

Pushbutton inputs T1 / T2 only item no.: 10.752



- 1 Devicebutton
- 2 Status-LED



i NOTE
 The relay outputs are mutually locked to ensure that only one drive path is active at a time (motor protection).

Figure: CBA UP - 10.750

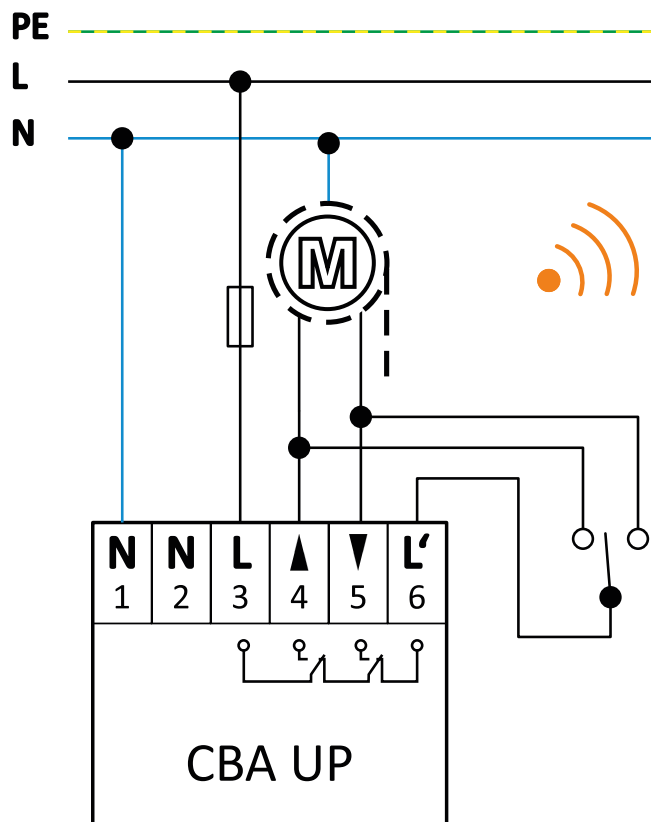
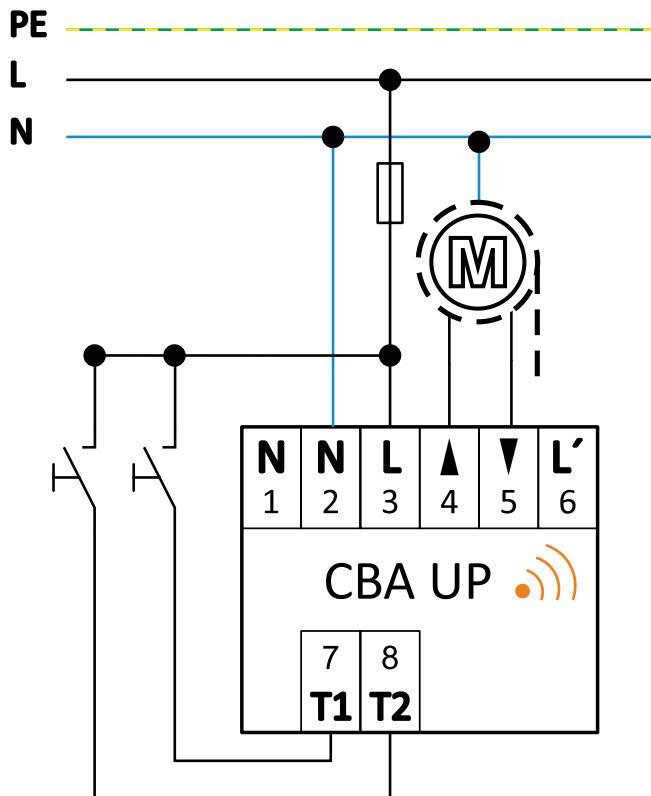


Figure: CBA UP - 10.752

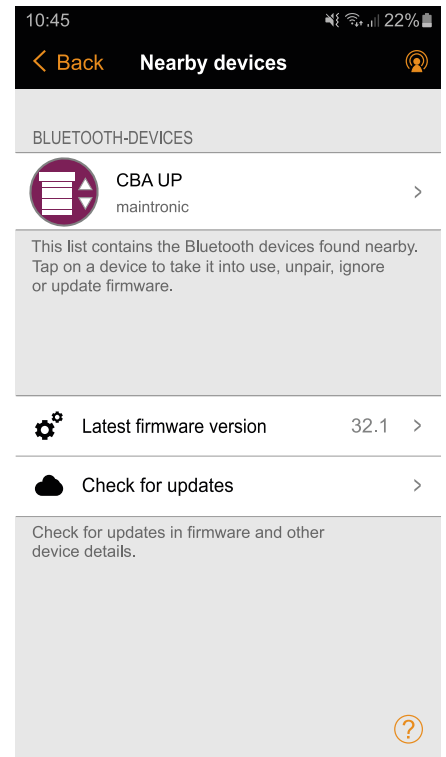


4. Commissioning

To make sure that the functionality of the device is up to date, first of all you have to check if a new firmware is available.

4.1 Update firmware

1. Go to nearby devices
2. Scroll down
3. Check for updates
4. If an update is available, please install



4.2 Choose application profiles

The device has different operating modes (so-called Casambi profiles) with the profiles the functionality and the parameters are determined. Before programming, a Casambi profile must be selected (by default, the profile - CBA Blind + Buttons is set).

Select a suitable profile for your application on the following pages.

Profiles for venetian blinds

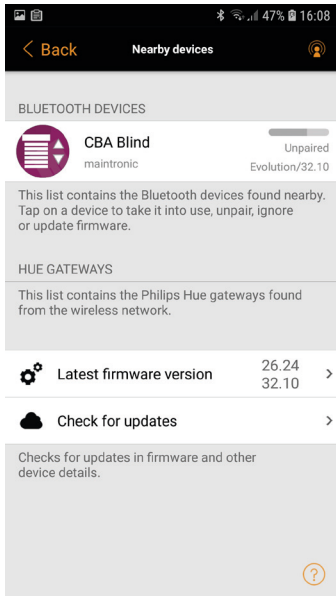
CBA Blind	<ul style="list-style-type: none">• Operation via APP• Move blind to absolute position• Adjust slat angle
CBA Blind + Buttons	<ul style="list-style-type: none">• Move blind to absolute position• Adjust slat angle• Additional controls for activation via external pushbuttons or scenes

Profiles for roller blind

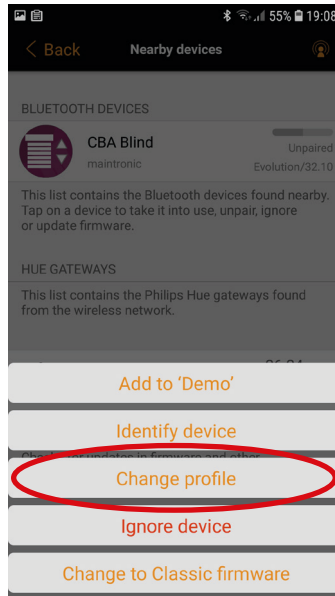
CBA Shutter	<ul style="list-style-type: none">• Operation via APP• Move roller blind to absolute position
CBA Shutter + Buttons	<ul style="list-style-type: none">• Move roller blind to absolute position• Additional controls for activation via external pushbuttons or scenes

4.3 Select profile and learn into a network

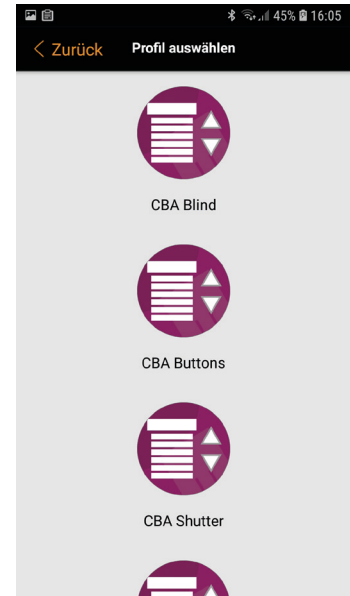
If you have selected a suitable profile for your application from the following pages, the device will be added to a Casambi network.



Device must be unpaired



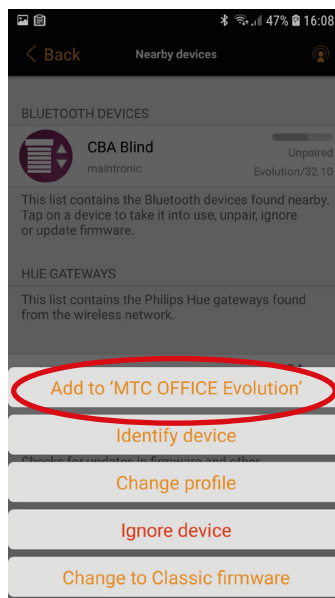
Tap on the menu item „Change profile“



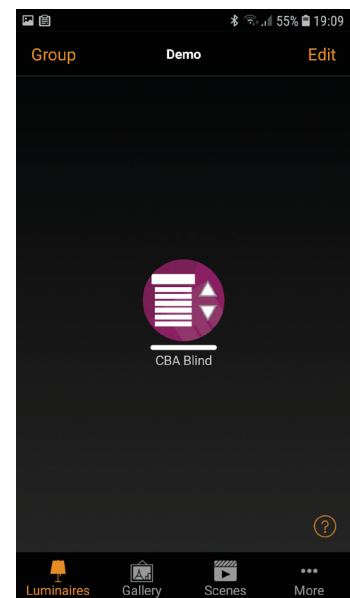
Select the desired operating mode (profile)



After the profile selection ...
Start update



Tap on the menu item
„Add to ... Network“

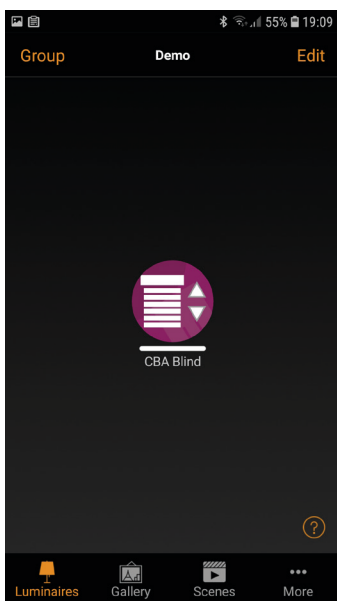


The selected profile is now
loaded

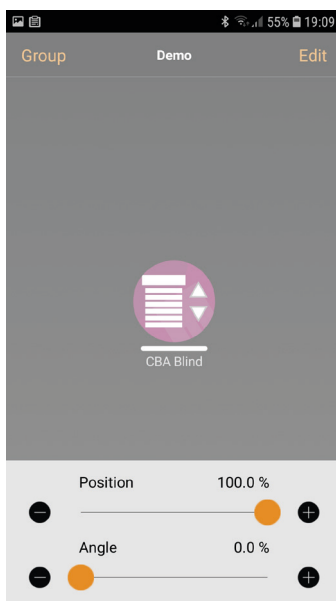
4.3.1 Profile A: CBA Blind

Drive blind | Adjust slats

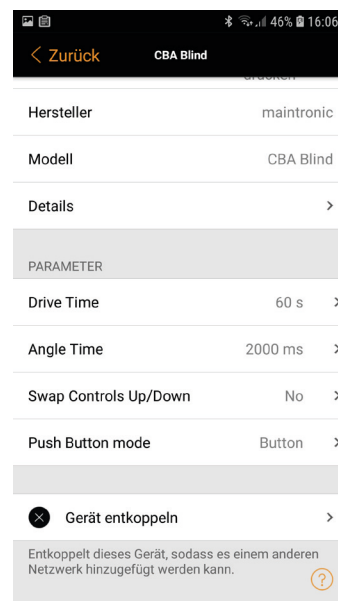
Casambi profile name	Fixture Id	Control element name	Function	Control element type
CBA Blind	17801	Position	Position	Slider (0% - 100%)
		Angle	Slat angle	Slider (0% - 100%)



Profile view in the APP



Operating elements in the APP



Informations and parameter

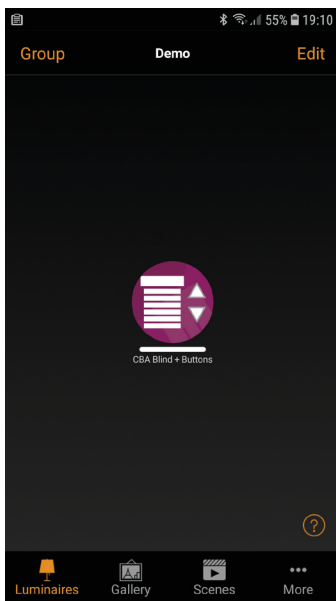
Profile parameter

Parameter Casambi	Description parameter	Value	Default Notes
Drive Time	Drive time for blind operation	0 ... 255s (seconds)	60s default
Angle Time	Drive time for slat adjustment	0 ... 65535ms (milliseconds)	2000ms default
Swap Controls Up/Down	Logical invert of drive direction	No Yes	Reverse driving direction
Push Button mode	Behavior of the pushbutton inputs	Description see 5.3	

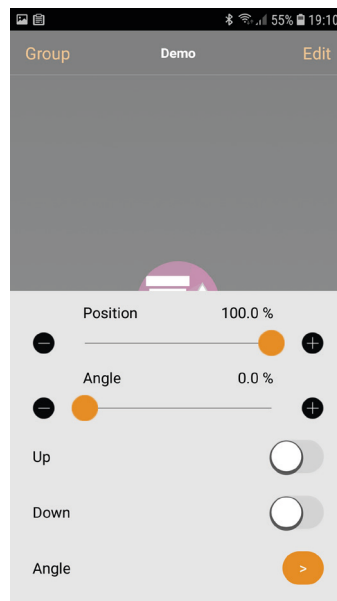
4.3.2 Profile B: CBA Blind + Buttons

Drive blind | Adjust slats | additional switches

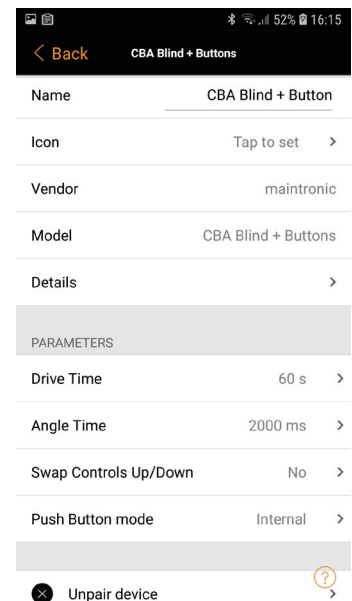
Casambi profile name	Fixture Id	Control element name	Function	Control element type
CBA Blind + Buttons	17802	Position	Position	Slider (0% - 100%)
		Angle	Slat angle	Slider (0% - 100%)
		Up	Single drive Up	ON/OFF Toggle
		Down	Single drive Down	ON/OFF Toggle
		Angle	Slat angle	Push Button



Profile view in the APP



Operating elements in the APP



Informations and parameter

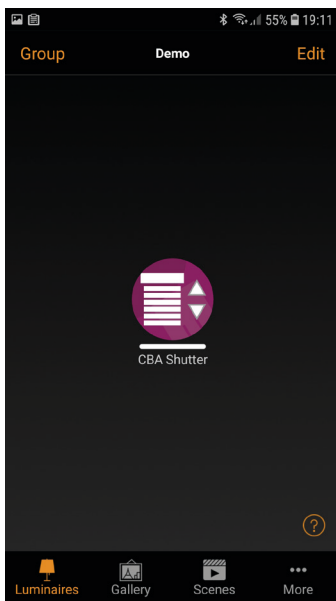
Profile parameter

Parameter Casambi	Description parameter	Value	Default Notes
Drive Time	Drive time for blind operation	0 ... 255s (seconds)	60s default
Angle Time	Drive time for slat adjustment	0 ... 65535ms (milliseconds)	2000ms default
Swap Controls Up/Down	Logical invert of drive direction	No Yes	Reverse driving direction
Push Button mode	Behavior of the pushbutton inputs	Description see 5.3	

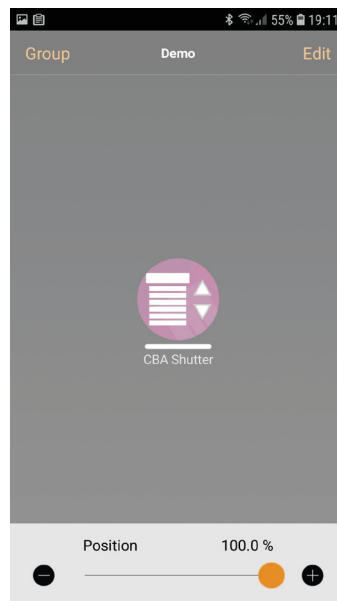
4.3.3 Profile C: CBA Shutter

Roller blind drive

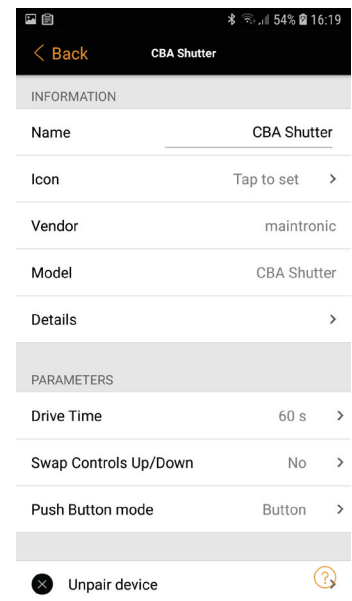
Casambi profile name	Fixture Id	Control element name	Function	Control element type
CBA Shutter	17803	Position	Position	Slider (0% - 100%)



Profile view in the APP



Operating elements in the APP



Informations and parameter

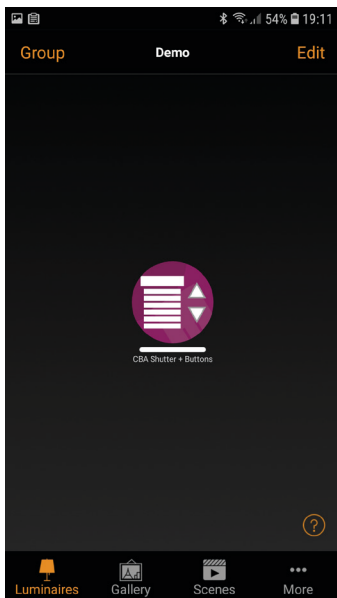
Profil Parameter

Parameter Casambi	Description parameter	Value	Default Notes
Drive Time	Drive time for roller blind	0 ... 255s (soconds)	60s Default
Swap Controls Up/Down	Logical invert of drive direction	No Yes	Reverse driving direction
Push Button mode	Behavior of the pushbutton inputs	Description see 5.3	

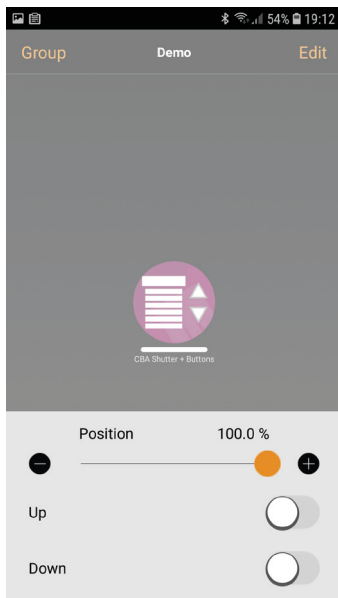
4.3.4 Profil D: CBA Shutter + Buttons

Roller blind drive | Operation additional switches

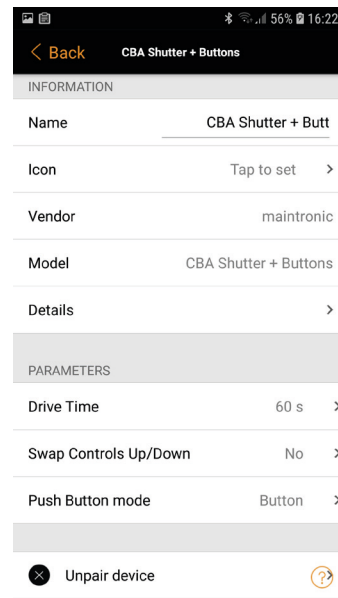
Casambi profile name	Fixture Id	Control element name	Function	Control element type
CBA Shutter + Buttons	17804	Position	Position	Slider (0% - 100%)
		Up	Single drive Up	ON/OFF Toggle
		Down	Single drive Down	ON/OFF Toggle



Profile view in the APP



Operating elements in the APP



Informations and parameter

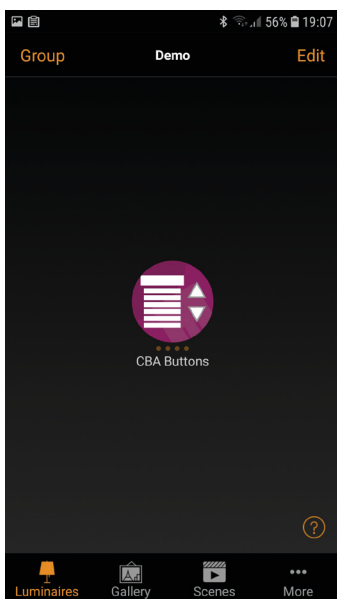
Profil parameter

Parameter Casambi	Description parameter	Value	Default Notes
Drive Time	Drive time for roller blind operation	0 ... 255s (seconds)	60s default
Swap Controls Up/Down	Logical invert of drive direction	No Yes	Reverse driving direction
Push Button mode	Behavior of the pushbutton inputs	Description see 5.3	

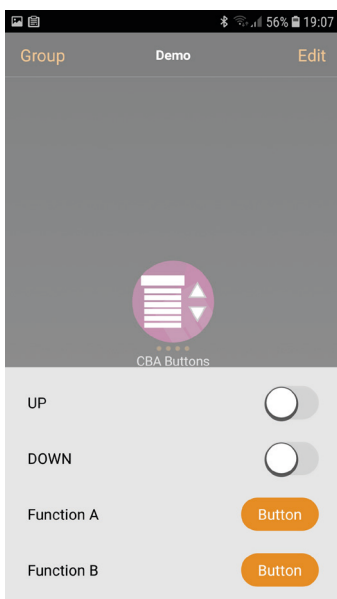
4.3.5 Profil E: CBA Buttons

Roller blind drive | with buttom operation elements in App

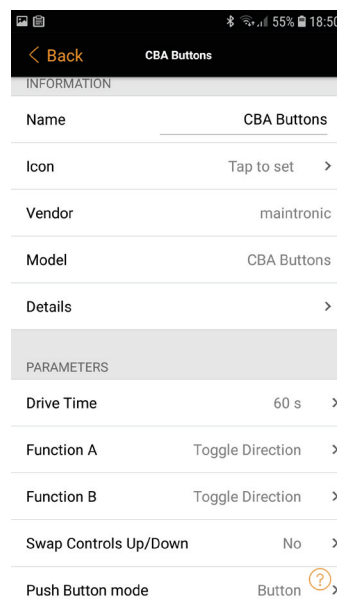
Casambi profile name	Fixture Id	Control element name	Function	Control element type
CBA Buttons	14343	Up	Single drive Up	ON/OFF Toggle
		Down	Single drive Down	ON/OFF Toggle
		Function A	Function for button A	Push Button
		Function B	Function for button B	Push Button



Profile view in the APP



Operating elements in the APP



Informations and parameter

Profile parameter

Parameter Casambi	Description parameter	Value	Default Notes
Drive Time	Drive time for roller blind operation	0 ... 255s (seconds)	60s default
Function A	Function for button A	Not in Use	Not in Use
Function B	Function for button B	Blind Up	Roller blind ▲ Up
		Blind Down	Roller blind ▼ Down
		Toggle direction	▲ .. Stop .. ▼ .. Stop Change direction
		Blind Up with Time	Rollo ▲ up with time
		Blind Down with Time	Rollo ▼ down with time
		Toggle direction with Time	▲ (t) Stop .. ▼ (t) Stop Reverse direction by time
Swap Controls Up/Down	Logical invert of drive direction	No Yes	Reverse driving direction
Push Button mode	Behavior of the pushbutton inputs	Description see 5.3	

4.4 Calibration

Once the device is added into a Casambi network, a calibration can be performed..

Perform calibration drive (Drive time)

To ensure proper operation, a calibration drive must be performed during initial startup.

1. Therefore, run a complete cycle (0% fully open to 100% fully closed) and measure the drive time.
2. In order to take into effect deviations in the travel time from bottom to top, the cycle (from 100% completely closed to 0% completely open) can be measured again.
3. Enter the measured time plus approx. 1 second (as a buffer) in the device settings under parameter „**Drive Time**“.

Setting the slat position (Angle time)

The „Angle Time“ is the aperture angle of the blind slats, this time must be measured and set in the parameters

1. Move the blind up a little until the slats are in a horizontal position.
2. Now move the blind downwards and stop the time until the slats are closed.
3. Set the measured time in ms in the parameters under „Angle Time“.

Set drive direction

If the drive direction is not correct, the parameter „Swap Controls Up/Down“ can be used to swap the direction.

5. Operation

5.1 Operation with device button

The device button ① has the same priority as the Casambi APP, the last one wins.

Function device button			Keystroke
Switching pattern		LED	Short press
Relais ▲	UP	● green	
Relais ▲	STOP	○ off	
Relais ▼	DOWN	● red	
Relais ▼	STOP	○ off	

5.2 Operation with pushbutton input T1 / T2 (only 10.752)

Enabled with 2 programmable inputs, local control is so much easier. These inputs can be used as a direct preconfigured Up-Down pushbutton or control any casambi enabled device over Casambi input control. It's just a change of a parameter in the app.

The functionality of the push button inputs is defined by a parameter. Before the button inputs are configured, a push button mode must be selected.

5.3 Push Button mode

In order to change the Push Button mode, proceed as shown on the right.

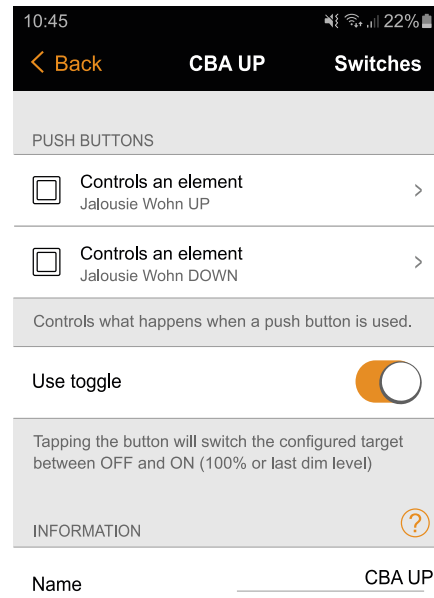
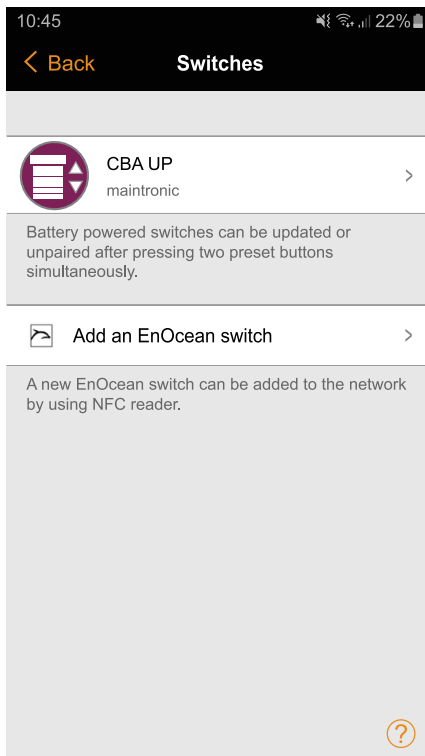
1. Open Casambi app
2. Double tap on the device
3. Scroll to the item parameter
4. Tap on Push Button mode
5. Select parameters
(See the list below)

Push Button mode - Possible parameters	
Casambi	Standard Casambi Push button input
Button	Function as push button - push=active; release=off Button command processing internally in MTC controller
Group Button	Function as group button - push=on; release=off If several blind actuators are combined as a group, one device of the group must be defined as the master. For the desired master, the push button style must be set to Group Button. The other maintronic devices in the group are automatically slaves and the function of the master takes place.
Switch	Function as a switch - 1x push = on - 1x push = off) release is ignored
Group Switch	Function as a group switch - 1x push = on - 1x push = off If several blind actuators are combined as a group, one device of the group must be defined as the master. For the desired master, the push button style must be set to Group Switch. The other maintronic devices in the group are automatically slaves and the function of the master takes place.

5.4 Configure pushbutton inputs

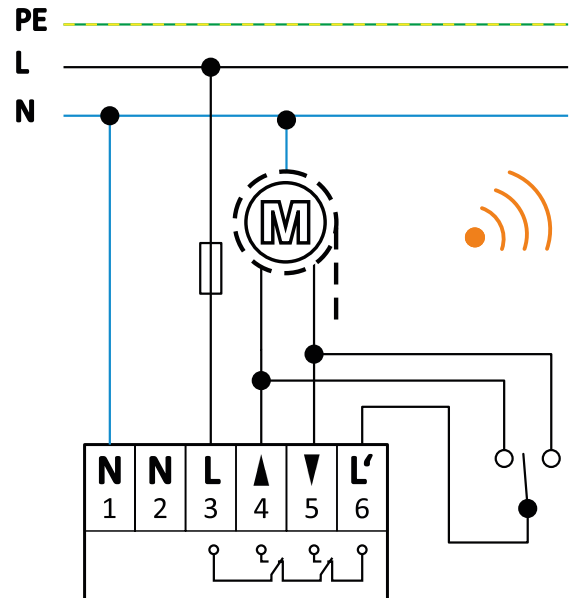
Pushbutton inputs can be individually assigned with desired functions. In order to do this, the following steps are necessary:

1. Open Casambi app and tap on „... More“
2. Open item „Switch“
3. Select device
4. For example program switch with single function
 - a) Select not active
 - b) Select not active
 - c) Select controls an element
 - d) Select element
 - e) Select CBA Buttons UP



5.5 Operation with pushbutton over L' release phase

Pin 6 (L') is an release phase to where an external blind pushbutton can be connected.



WARNING

Please note that the pin for enabling phase L' (pin 6) is always connected to the mains voltage as long as no active movement is being performed via the Casambi control level.



ATTENTION

Only pushbuttons without latching function and no switches may be connected. The motor can be destroyed if this is not observed.



NOTE

All movements via the „L' path“ control are not detected by Casambi. If you use profiles A,B,C or D, the indication of the horizontal position is no longer correct. Only a travel to one of the end points (OT/UT) via the control from Casambi „synchronizes“ the display with the real position again.

As soon as a travel command or an automation object is sent, the manual travel is interrupted. If the device is operated in automated mode, the key inputs T1 and T2 (only 10.752) must be used.