S1-CB Casambi Bluetooth + RF Triac Dimmer

Feature

- Casambi Bluetooth + RF + Push AC phasecut dimmer, 1 channel output.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- Casambi APP control, supports On/Off, brightness adjustment, group control, scene editing, Min/Max Brightness setting, power-on status and various power-down memory settings.
- 256 levels of 0-100% dimming smoothly without any flash.
- Minimum brightness, reverse-phase or forward-phase dimming can be set by key.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Easy to be placed on rail or in standard wall junction box.
- Overheat/Overload protection, recover automatically.

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	AC100-240V	Input signal Bluetooth	+ RF 2.4GHz + Push		EN IEC 55015/ EN IEC 61547
Output voltage	AC100-240V	Control distance 3	Om(Barrier-free space)	EMC standard	ETSI EN 301 489-1/-3/-17
Output current	Max 1.5A	Dimming level	256 levels	Safety standard	EN 60669-1/-2
Output power	150-360W	Dimming range	0-100%	Radio equipment	ETSI EN 300 440 ETSI EN 300 328
Warranty and Protection		Environment		Certification	CE RoHS
Warranty	5 years	Operation temperature	Ta: -20 °C ~ +55 °C	Package	
Protection	Overheat/Overload	Case temperature (Max.)	Tc: +90 °C	Size	L60 x W60 x H40mm
		IP rating	IP20	Gross weight	0.061kg

Compatible Load Types

Load type	Maximum load	Remarks
Dimmable LED lamps	200VV @ 220V 100VV @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
Triac dimmable LED drivers	200VV @ 220V 100VV @ 110V	Maximum permitted number of drivers is 200W divided by driver rated input power rating, and make sure the surge current is no more than 2 times 65A.
Incandescent lighting, HV halogen lamps	400VV @ 220V 200VV @ 110V	

Because different manufacturers triac dimmable LED driver rated input power is different, you can refer to the formula to calculate the max. number of LED driver. Formula: D max = 200W/RP, at the same time need to meet the sum of the surge current (I surge) does not exceed 130A. For example: triac dimmable LED driver rated input power(RP) = 15.4VV, surge current = 10A/230VAC, Then D max= 200/15.4 =13(pcs), I surge=13*10 =130A, the max. number of triac dimmable LED driver is 13.



. S1-CB Casambi BT + RF Triac Dimmer 2.4G Uin = 100-240VAC CASAMBI lout = 100-240VAC sut = 1.5A lou = 150-380W (EROHS Pou = 150.380W Temp Range: _00C - +55°C Point Switch Mac AC OUT AC N 0.5-2.0mm/ AC A1 Lout N N L 447mm 000000

C€ RoHS

Recommended Number of Load Connection

Load type	Output power per load	Quantity
Dimmable downlight	5.5W @ 220V~240V	20
Triac dimmable LED driver	12VV @ 200V~240V	15
Triac dimmable LED driver	36VV @ 200V~240V	4
Triac dimmable LED driver	75W @ 200V~240V	2

 \bigcirc

Installation clip

 \square

Mechanical Structures and Installations



by a professional electrician. 2. Please keep the device out of the reach of children. 3. Please keep away from water, humid or hot environment. 4. The device should be kept away from strong signal sources (such as microwave ovens) to avoid signal interruption and cause the device not to work properly. Avoid placing the device close to or near high-density materials(such as metal, concrete walls, etc.), which will reduce or block the wireless signal



-25.00 mm

-56.00 mm-

-56.00 mm

Wiring Diagram

000000

 \bigcirc



Caution: Please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this dimmer will be damaged.

AC Push-dim:

Short press: Turn on or off light.

Long press (1-6s): Step-less dimming, brightness increases or decreases continuously,

each time you release and then long press again, the brightness changes in the opposite direction.

Casambi APP Connection

Use Casambi APP for the first time

When devices are used for the first time, they need to be added to the network. A device can only be part of one network.

- All Casambi devices are normally supplied in an unpaired state.
- 1. Download the Casambi APP from the Apple App Store or Google Play Store.
- 2. The device is powered on and automatically enters the config state.
- 3. The APP will search for all devices with casambi turned on within the Bluetooth range of the mobile device.
- 4. When a device is added to the network, it can be controlled by application.



Casambi APP user interface



Main interface dimmina:

Option 1: Slide the lamp icon left or right to adjust the brightness. Option 2: Long press the fixture icon, a pop-up window at the bottom of the interface will show the brightness slider, touch the brightness slider to adjust the brightness.

09:51	🕫 📭	09:52	
Back Triac Dimme	r	< Back Tri	ac Dimme
ORMATION		Dedicated data	ylight sens
ime	Triac Dimmer	Selects the dedicated Readings of this senso dedicated sensors' op scene settings.	r will be used
n	Tap to set >		
ndor	SkyDance	Daylight gain	
odel	Triac Dimmer >	Specifies the amount of covered by this lumina response of daylight-e	ire. Can be us
tails	>	STARTUP STATE FOR	POWER ON
ντε		Default mode	•
Change luminaire state	>	Sets the state that is a turned ON.	stivated when
luminaire state can be also chan apping and holding the icon. It al ups, all luminaires and nearby lum	so works for	Minimum dim I	evel
DES Edit Cancel		Maximum dim	level
efault Mode 1 Mod	e 2 Mode 3	•	
to activate a mode and hold to edit settings		Restricts the physical Note that regardless o luminaire OFF.	
Dedicated daylight sens	or >		
		Unpair devic	e

Mode Setting / General Startup Status / Minimum, Maximum Brightness Setting:

Double click the fixture icon to enter the setting interface: Long press 'Mode 1/2/3' to edit/clear/cancel the setting mode

Short press 'Default Mode' to select universal startup state. Slide the adjustment slider left/right or click '+/-' button to set the minimum/maximum brightness.

Match RF Remote Control (two match ways)

Ann Stor

0.0 %

Compatible System: Android 4.4 and

ios10.0 or above

Casambi uses Bluetooth Mesh network technology and

longer distances.

each Casambi device can also be used as a repeater for

The distance is highly dependent on the surroundings and

obstacles such aswalls and building materials.

End user can choose the suitable match/delete ways. Two op	tions are offered for selection:		
Use the controller's Match key	Use Power Restart		
Match:	Match:		
Short press Match key,	Switch off the power, then switch on power, repeat again.		
immediately press on/off key (single zone remote) or	Immediately short press on/off key (single zone remote)		
zone key (multiple zone remote) of the remote.	or zone key (multiple zone remote) 3 times on the remote.		
The LED indicator fast blinks means match is successful.	The light blinks 3 times means match is successful.		
Delete: Press and hold Match key for 5s to delete all match, The LED indicator fast blinks means all matched remotes were deleted.	Delete: Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.		

Leading Edge or Trailing Edge Dimming Setting

Select leading edge(forward-phase) dimmer or trailing edge(reverse-phase) dimmer according to dimmable LED light or driver.

- ① At the moment when the dimmer is powered on, long press set key for 10s to set trailing edge dimming(factory default), the LED indicator flash 1 time.
- ② At the moment when the dimmer is powered on, long press set key for 15s to set leading edge dimming, the LED indicator flash 3 times.

Forward-phase control dimmer(TRIAC)

Voltage

Reverse-phase control dimmer



Min Brightness Setting

The minimum output brightness can also be set through the set key. Long press set key for 2s, the light blink 2 times,

ready for min brightness set, then short press set key 1-6 times,

to get 6 min brightness: 5%(default), 10%, 15%, 20%, 25% or 30%, the light will output the current min brightness immediately, Long press set key for 2s or wait 8s, guit min brightness set, the light will output 100% brightness automatically. Long press the set key for 10s to restore factory defaults.

Installation Precautions

- 1. The products shall not be stacked, the distance should be \geq 20cm,
- so as not to affect lifespan of the products due to poor heat dissipation.
- 2. The product shall not be installed close to the switching power supply with an interval of \geq 20cm to avoid radiation interference of the switching power supply.
- 3. The installation height shall be ≥ 1 m from the oor to avoid shortening the remote control distance due to too weak reception signal.
- 4. The products are not allowed to be close to or covered by metal objects, with an interval of \geq 20cm to avoid signal attenuation and shorten the remote distance.
- 5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of \geq 20cm to avoid signal interference.