DALCNET MINI-1AC LED Dimmer Parameters Directly Programmable Owner’s Manual

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Contents [hide]

FEATURES

- AC DIMMER + FADER
- Brightness adjustment of WHITE and MONOCHROME light
- Power supply (AC IN): 230 Vac @ 50 Hz, with internal 1 A fuse
- Output (AC OUT): 230 Vac Trailing Edge (350 W max), for incandescent and halogen lamps, LED switching lamps, strip and linear LED lamps, dimmable Trailing Edge drivers
- Local Command (PUSH): N° 1 N.O. push-butto
- Remote control: via Bluetooth Low Energy (BLE) with CASAMBI© mobile app
- Device configuration via CASAMBI© mobile application, parameters can be set (via Fixture):
  - Dimming curve
  - Max and min brightness levels
- Memory function: stores the last brightness level set
- ON/OFF and brightness soft dimming
- Suitable for use in Dry locations
- Typical efficiency > 95%
- Extended temperature range
- 100% Functional Test

PRODUCT DESCRIPTION

MINI-1AC-CASAMBI is a single-channel Alternating Current (AC) Trailing Edge dimmer, which can be supplied by 230 Vac mains
power grid and is suitable for driving single-color AC loads such as incandescent and halogen lamps, LED switching lamps, LED

strips/lamps and dimmable drivers in Trailing Edge mode.
The AC dimmer is equipped with an internal 1 A fuse, protecting the internal circuitry, which makes the installation of an external
fuse optional. The maximum output current is 1.52 A and has the following protections: input fuse protection, output short-circuit
protection, short-circuit detection, and output open-circuit detection.
MINI-1AC-CASAMBI can be controlled remotely via Bluetooth or locally via N.O. (Normally Open) button connected to the phase,
neutral or as a dry contact. The type of wiring is recognized when it is turned on and the dimmer is automatically configured to
work with the control connected.
MINI-1AC-CASAMBI enables you to make not only simple brightness adjustments but also more dynamic lighting control systems.
This is made possible through the creation of multiple scenarios, animations, timers, daylight controls, and more.
Through the CASAMBI© mobile application and smartphones equipped with Bluetooth technology, it is possible to configure via
Fixtures multiple parameters, including maximum/minimum brightness levels.
CASAMBI© mobile application can be downloaded
free of charge from the Apple APP Store and Google Play Store.
CASAMBI© Mobile App is free to download from the Apple APP Store and Google Play Store

⇢ For the up-to-date manual, please consult our website www.dalcnet.com or scan the QR Code on product label.

PRODUCT CODE

CODE	POWER SUPPLY	OUTPUT LED	N° OUTPUT CHANNEL	REMOTE CONTROL	LOCALCONTROL	APP CONFIG
MINI-1AC-CASAMBI	230 Vac @ 50 Hz	1 x 1.52 A[1]	1	Bluetooth LowEnergy (BLE)	Pushbutton N.O.[2]	CASAMBI©mobile app

PROTECTIONS AND DETECTION

The following table shows the types of ingress and egress protection/detection present on the device.

ACRONYM	DESCRIPTION	TERMINAL	PRESENT
IFP	Input Fuse Protection[1]	AC IN	✔
SCP	Short-Circuit Protection[3]	AC OUT	✔
SCD	Short-Circuit Detection	AC OUT	✔
OCD	Open-Circuit Detection	AC OUT	✔

REFERENCE STANDARDS

MINI-1AC-CASAMBI complies with the regulations listed in the following table.

STANDARD	TITLE
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting andsimilar equipment
EN 61547	Equipment for general lighting purposes – EMC immunity requirement [4]

EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions(equipment input current ≤ 16 A per phase) [4]
EN 61000-3-3	Electromagnetic compatibility (EMC) – Part 3-3 Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16A per phase and not subject to conditional connection [4]
EN 61347-1	Lamp Controlgear – Part 1: General and safety requirement
EN 61347-2-11	Lamp controlgear – Part 2-11: Particular requirements for miscellaneous electronic circuits used withluminaires

1. The maximum output current depends on the operating conditions and ambient temperature of the system. For the correct configuration, check the maximum power that can be delivered in the §Technical specifications section and in the §Thermal Characterization.
2. The detection of the type of wiring is done automatically.
3. Short Circuit Protection (SCP) is disabled by default. It is recommended to enable this function only on compatible load types (see Table 5) on the dedicated CASAMBI© mobile app section.
4. Compliance with EMC standards is achieved in worst-case (nominal load 200 W) by application in a suitable inlet filter.
5. For the full range of values, refer to the §Thermal Characterization of the manual.
6. The parameters are derived from the configuration of the Casambi module.
7. Tamb_max: depends on ventilation conditions

MINI-1AC-CASAMBI

TECHNICAL SPECIFICATIONS

Description of	Acronym	Values	Units	Note
	Min Max	Measure		
INPUT (AC IN Power)				
Nominal Supply Voltage	VIN	230	Vac	–
Supply Voltage range	VIN-ANG	210 ÷ 240	Vac	–
Mains Frequency	Mum	50	Hz	–
Efficiency at full load	Err	> 95	A %	–
Standby power absorption	Psray	< 0.5	W	–
OUTPUT (AC OW Channel)				

Output Voltage	**Vour**	**= Via**	**Vac**	**–**	
Output currents (max)	**latrr**	**1.52**	**A**	**–**	
Nominal power outputMinimum load power **Load type Dimming curve**	**Pour**	**350**	**W**	**Dependent on the type of load connected, see Table 5**	
	PM DA LO AD Lfl pf Co rti	**1 –See Table 5DIMMING**Linear• **Logarithmic**	**W– –**	**–**	
				–* Available only for Local Command	
Dimming method	**MINN** Trailing **Edge**		**–**	**–**	
Dimming resolution	**Res/mm** 1666 **1000**		**step**	**Defined by project**	

Dimming range	RNGoin 5 ÷ **100**	**%**	**Dependent on the type of connected load**
ENVIRONMENTAL			
Operating Frequencies [6] fop 2402 + **2483**		**MHz**	**For CASAMBI° BLE SoC Over Bluetooth transmission**
Maximum Emitted Power [6] 7		**dBmW**	
Storage Temperature TSTG:tE -40 + **+60**		**°CMinimum values defined by design**	
Working Ambient temperature [5,7] TA	⁻10 + **+60**	**°C**	
Max Temperature ©T, point C –	– – +80	°	
WSsouo 0.05 + **2.5**	mm[2]		**Defined** byproject
Wiring SectionWSSTRAND 30 ÷ **12** I **AWG**Strip length **WSSTR1P** 6.5 mm			—
Protection class i Casing Material Packaging unit	IPcc o€**MuseUP**	1P20 I -Plastic[I] **–1** pcsL **A P**	

Dimensions	**MD**	**44**	**57**	**25 I mm**	**Casing**
	PD	**56**	**68**	**35 I mm**	**Packaging**
Weight	**W**	**80**	**I**	**g**	**–**

TYPE OF LOAD

The following table shows the types of loads that can be connected to the output of the MINI-1AC-CASAMBI.

Load	**Description**	**Maximum Power [IN] 250**	**I SCP Compatibility✓(< 100 VV)**
	Incandescent lamps / Halogen		
in	Linear LED Mains Voltage Lamps	**350**	✓
1117	**LED** switching lamps at mains **voltage**	**300**	✓
count tkrxxxo[1]	**LED** Strips / Mains Voltage LED Modules	350	✓
:I.rs[4]			
***i si 23/4" a* WAAL LEDDRIVER**	Dimmable LED Trailing Edge Drivers	250	✓(< 100 W)

Documents / Resources

	DALCNET MINI-1AC LED Dimmer Parameters Directly Programmable [pdf] Owner's Manual MINI-1AC LED Dimmer Parameters Directly Programmable, MINI-1AC, LED Dimmer Parameters Directly Programmable, Dimmer Parameters Directly Programmable, Parameters Directly Programmable, Directly Programmable, Programmable

References

- User Manual

DALCNET

DALCNET, Dimmer Parameters Directly Programmable, Directly Programmable, LED Dimmer Parameters Directly Programmable, MINI-1AC, MINI-1AC LED Dimmer Parameters Directly Programmable, Parameters Directly Programmable, Programmable

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