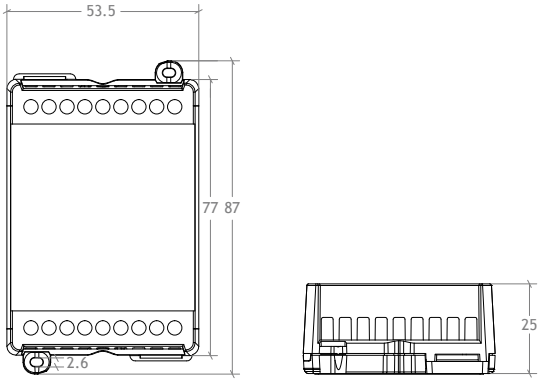
CASAMBI

4.0 Bluetooth

Index

Product drawing



RoHS IP20 III 12-24 V DC 5 System

USP's

Single colour, Tunable White, RGB and RGBW modes
Intuitive wireless control
Self healing network
No WIFI, nodes, gateways or switches required
Four programmable N.O. pushbutton inputs
Wide input voltage range
Compact size surface mounted
Fully tested, 5 year system warranty
Wireless control range of max. 50 metres
Easy to install
Internet of things device

liniLED® Control

We strive to provide the best possible solutions for the linear LED industry. Therefore we've launched a complete range of functional user friendly and reliable LED drivers which can be used for nearly every situation.

Our new LED drivers are fully designed and manufactured in Europe. We only use high quality components that meet our highest standards. All products are fully factory tested and covered by our 5 year system warranty.

Dim 4-CASAMBI

This wireless controlled four channel constant voltage LED driver can be used for single colour, tunable white, RGB and RGBW LED products.
CASAMBI sets a new standard in wireless lighting controls and is widely adopted by many lighting companies. A CASAMBI network is a self healing mesh network based on Bluetooth communication. The Bluetooth® 4.0 (BLE) interface allows this driver to be wirelessly controlled by the CASAMBI app, which is available for iOS and Android devices. The Dim 4-CASAMBI driver also features four N.O. pushbutton inputs to trigger various programmable functions such as dimming, changing colour or recall specific scenes. This device is best suited for residential projects, retail stores, hotels, luxury yachts, museums. Especially in monumental buildings where it's not easy to install a new control infrastructure, CASAMBI technology offers a powerful and flexible control solution. CASAMBI networks can also be expanded with third-party accessories such as sensors, wireless switch gear, etc. The intuitive self explanatory user interface eases controlling and programming, even for non professionals.

For the latest version of this datasheet, visit our website: www.liniLED.com.

Technical specifications

	Dim 4-CASAMBI
Product code	11133
Input signal	CASAMBI App (iOS or Android) using BLE/Bluetooth 4.0 4 dry contacts for N.O. pushbuttons
Input voltage (V_{in})	10.8 ... 26.4 V DC
Input current (I_{in}) [1]	Max. 10 A
Max. load @ 24 V DC [1]	240 W
Output channels	4
Output current per channel [1] [2]	Max. 5 A
Output signal [3]	D-PWM, 833 step resolution
Output type	Constant voltage, common anode
Output voltage (V_{out})	= V_{in}
Typical efficiency	> 95%
Standby power @ 24 V DC	Max. 500 mW
Dimming range	0 ... 100%
Dimming frequency [3]	600 Hz
IP rating	IP20
Storage temperature	-40 ... 60°C
Ambient operating temperature (T_a) [1]	-10 ... 40°C
Dimensions	87 x 54 x 26 mm
Packaging dimensions	106 x 59 x 36 mm
Weight	80 g
Housing material	Self-extinguishing PC/ABS
Thermal shutdown [4]	150°C
Wiring	2.5 mm^2 solid - 1.5mm^2 stranded - 30/12 AWG
Output signal power rating [3]	4 dBm
Max. signal range	40 metres indoor/50 metres open field

[1] Maximum value, dependent on the ventilation and environmental conditions.
[2] Max load definition: 10 A ($I_{TOT} = I_{L1-} + I_{L2-} + I_{L3-} + I_{L4-}$). Each channel provides max 5 A.
[3] The values depend on the configuration of the CASAMBI module.
[4] Provided by MOSFET internal thermal shut down.

Protection circuits

OTP	Over temperature protection[4]
OVP	Over voltage protection[5]
UVP	Under voltage protection[5]
RVP	Reverse polarity protection[5]
IFP	Input fuse protection[5]
SCP	Short circuit protection
CLP	Current limit protection

[4] Provided by MOSFET internal shut down.
[5] Only control logic protection.

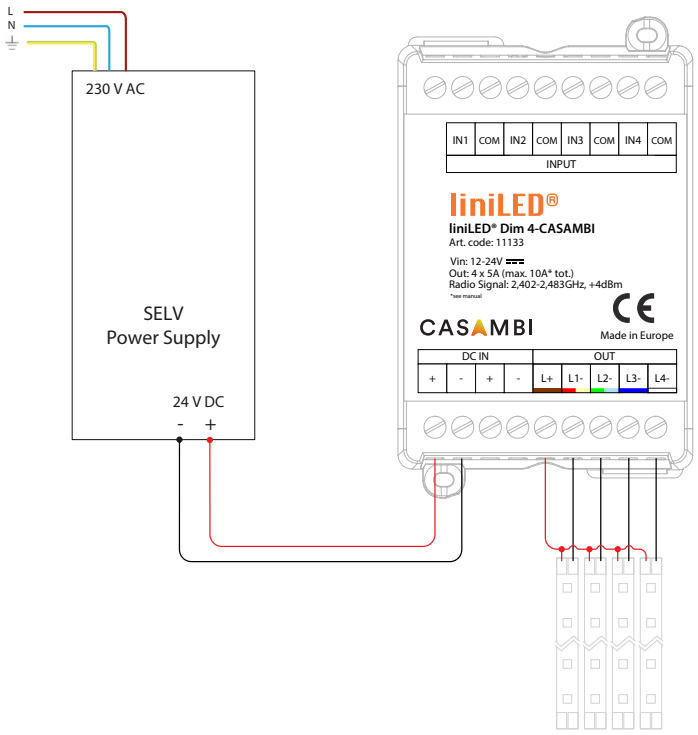
Reference standards

This product is designed and produced according to following standards.

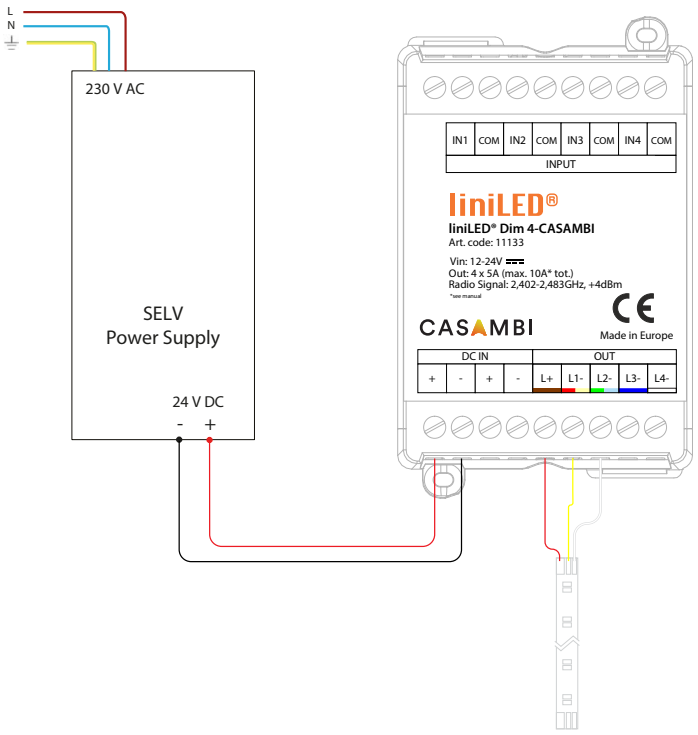
EN 61347-1:2008 + A1:2011 + A2:2013	Lamp control gear - Part 1: General and safety requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

Wiring schemes

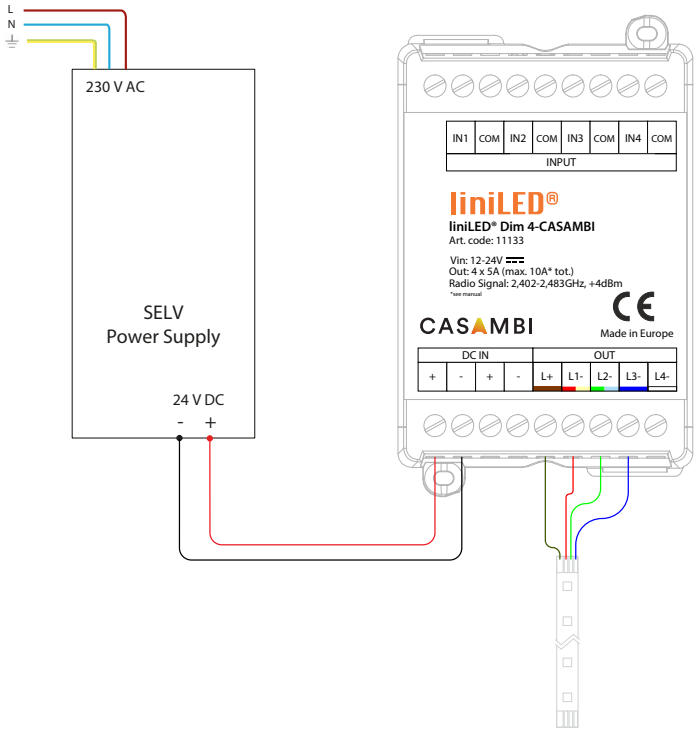
Single Colour



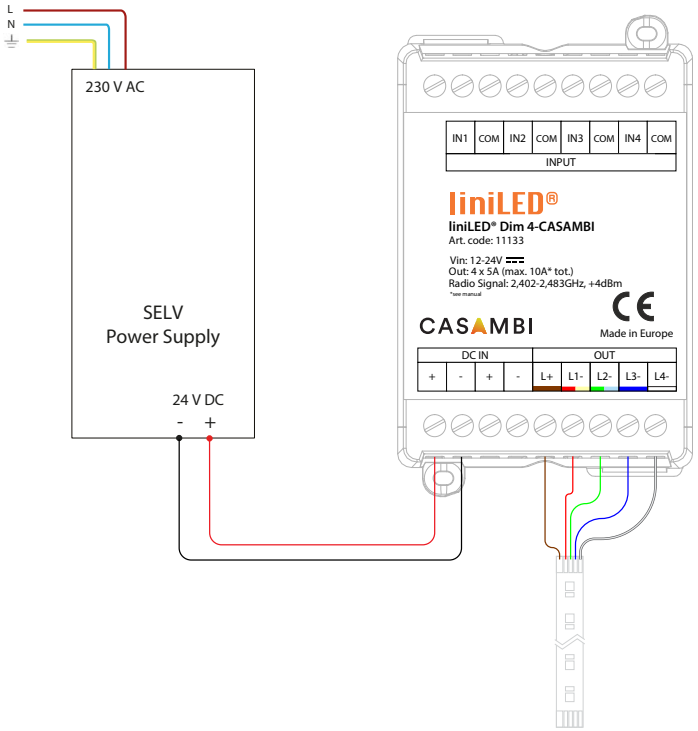
Tunable White



RGB



RGBW



Symbols

Manufacturer's declaration that the product meets the applicable EC directives.

Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).

Protected against ingress of solid foreign objects ≥ 12.5 millimetres. Not-protected against ingress of water.

Electrical appliance class III: this product is designed to be supplied from an extra-low voltage (≤ 60.0 V DC or ≤ 42.4 V AC).

Operating voltage of 12-24 V DC (please check or refer to LED product specification).

System guarantee of 5 years when the complete system consist of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.

Disclaimer

The published information is checked to be as accurate as possible, however Triolight B.V. or any reseller of liniLED® cannot be held liable for any damages resulting from errors or outdated information. Triolight B.V. reserves the right to modify the information without informing the customers. When this document is printed or downloaded, please check for the latest version on the internet, the most up to date information will be published on www.liniLED.com. This product should not be used in applications, devices or systems where incorrect operation of the product may result in personal injury (includes emergency lighting) without written permission from the board of Triolight B.V. If nevertheless used in such applications, devices or systems Triolight B.V. cannot be held liable for any resulting injury.