



- **Compact 4 channel PWM module for 12-48V DC up to 16A.**
- **Low power consumption, max. 2 Watt.**
- **Additional mounting place for improved cooling.**
- **Simply controlled by Casambi.**

The PWM module LIGA.AIR.PWM.4+ is controlled by the Casambi app.

The module can be connected directly to the power supply of the illuminant (e.g. LED strip light), its voltage may be in a range of 12-48V DC.

The 4 PWM signals are controlled by Casambi and have a frequency of 1kHz.

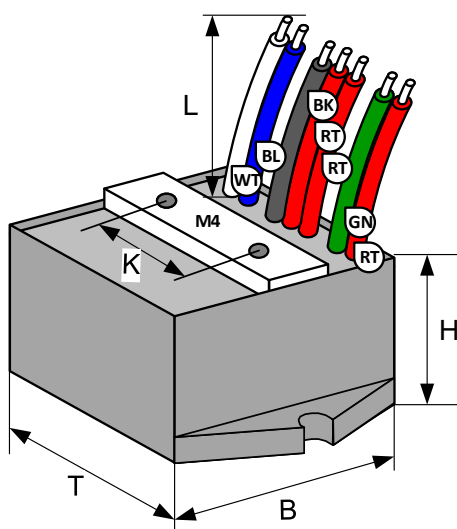
For better cooling the module can be mounted with 2x M4 screws to a separate cooling surface or heat sink. This mounting place is galvanically isolated from all terminals of the module.

The module is capsuled in a black PC housing with the dimensions of 44 x 44 x 23mm.

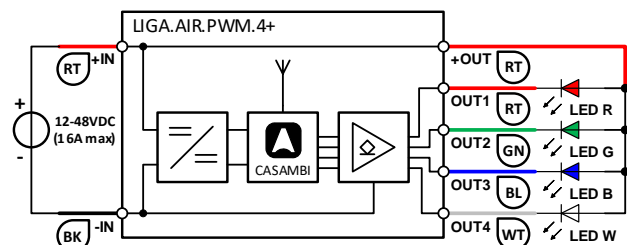
The attached mounting brackets for 3mm screws (or similar) can be easily removed if necessary.

The compact design of the housing allows an easy installation in flush-mounted boxes or in a cable duct.

Dimensional drawing:



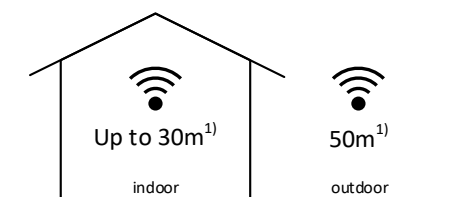
Schematics:



Installation only by a professional electrician according to the local regulations!

**Technical specifications:**

Dimension (T x B x H)	44 x 44 x 23mm
Weight	105g
Color	Enclosure black
Mounting	In flush-mounted boxes or cable ducts etc.
Environmental conditions	Operation: Temperature -20 ... 50°C, humidity < 85%rH Stock: Temperature -25 ... 65°C, humidity < 95%rH
Protection type / Protection class	IP44, EN-60529 / Appliance Class II
Connections Power supply	Flexible 3x 2.5mm ² (AWG13), L = 150mm: Red (RT): +IN, Positive terminal module supply Red (RT): +OUT, Positive terminal illuminant supply Black (SW): -IN, Negative terminal module supply
Connections PWM outputs	Flexible 4x 1.5mm ² (AWG15), L = 150mm: Red (RT): OUT1, PWM-Channel 1 (e.g. Red Light) Green (GN): OUT2, PWM- Channel 2 (e.g. Green Light) Blue (BL): OUT3, PWM- Channel 3 (e.g. Blue Light) White (WT): OUT4, PWM- Channel 4 (e.g. White Light)
Power supply / Current	12-48V DC / max. 16A (sum of all channels 1-4)
Power consumption of module	2 Watts max
Mounting place for additional cooling	2x M4 holes at distance K = 20mm
Standards	Low Voltage Directive (LVD) 2014/35/EU, EN 60669-2-1 Electromagnetic compatibility (EMC) 2014/30/EU
CASAMBI Modul Standards	Bluetooth 4.0 Wireless Control
Dimming and switching	Settable by the Casambi application (App Store, Google Play)
Applications	Dimming and switching of DALI devices, 1 channel or broadcast
Scope of delivery	1 DALI module

Compatible devices:**Range:****iPhone 4S** or later**iPad 3** or later**iPod Touch 5th gen** or later.**Android 4.4 KitKat** or later devices

produced after 2013 with full BT 4.0 support.

Casambi uses mesh network technology so each CBU-ASD acts also as a repeater.

Longer ranges can be achieved by using multiple Casambi units.

Range is highly dependent on the surrounding and obstacles, such as walls and building materials.

