

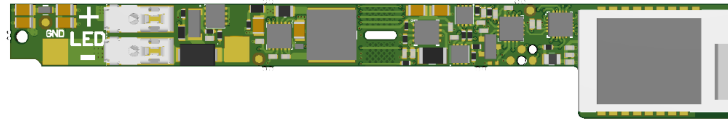
# LED CC Driver Linear Casambi by buschfeld

## performance parameters

	Article No
500 mA	6308

- Over-the-Air programmable constant current 1 channel LED driver
- Controllable via **CASAMBI**

### Illustration



### Description

This device is developed for any kind of constant current LED applications and enables control via Casambi Bluetooth. It converts Constant Voltage to Constant Current, has 1-Channel and its output is programmable via Casambi in 1 mA steps. The benefit is a smooth Dimming without artefacts via constant current reduction in continuous conduction mode at dimming levels >1%. Below 1% of light the dimming method switches to PWM @ 2kHz.

Pseudorandom Pulse Code Modulation at very low LED currents <1% instead of PWM

### Features

- wide input voltage range
- inrush current limiter
- Protections: short circuit, reverse polarity, overheat <sup>1</sup>, suppress voltage peaks up to 400W Peak pulse power
- current settable in 1 mA steps
- bendable joint in the middle of the PCB
- real-time measurements showed in detail view: In- and Output Voltages, PCB temperature (hottest spot), LED current setting, Device status for errors e.g. over- and under voltage, no LED connected, LED short circuit,
- typical applications: COB, CSP LEDs, Light Engines, standard socket constant current LEDs, deco fixtures

### Technical Ratings

<b>Article no.</b>	<b>6308</b>
<b>Input Voltage Typical <sup>*2</sup></b>	12 to 48V DC
<b>Input Voltage Condition</b>	V <sub>in</sub> > V <sub>LED</sub> +5V
<b>Input Voltage Maximum</b>	10 to 52 V DC
<b>Output Voltage</b>	5V to V <sub>in</sub> -5V
<b>LED Current</b>	0 - 500 mA (+/- 2,5mA) precision of adjustment: settable in 1mA steps via Casambi
<b>Power Dissipation</b>	max. 2 W @ max load 0,05 W standby consumption

<b>Humidity</b>	20 - 70%
<b>Storage Temperature</b>	-40°C to 85°C
<b>Operating Temperature</b>	0°C to 80°C

**Note**

<sup>\*1</sup> If the operating temperature exceeds 85°C, the driver turns off and checks the temperature every minute and turns on automatically if the temperature is below 70°C.  
<sup>\*2</sup> Use true DC Power supplies with constant voltage only  
 Use in insulated housing only.

Applications that exceed the driving temperature values shown on this document will void the Buschfeld Driver warranty. RMAs will be refused and no replacement electronics or account credits will be made available. This specification sheet covers both device variants, 500 mA and 1 A.

### Certifications / Label



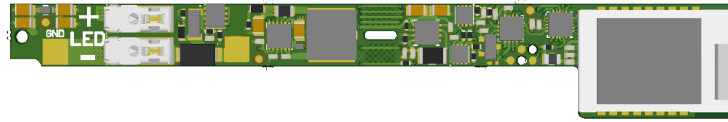
buschfeld

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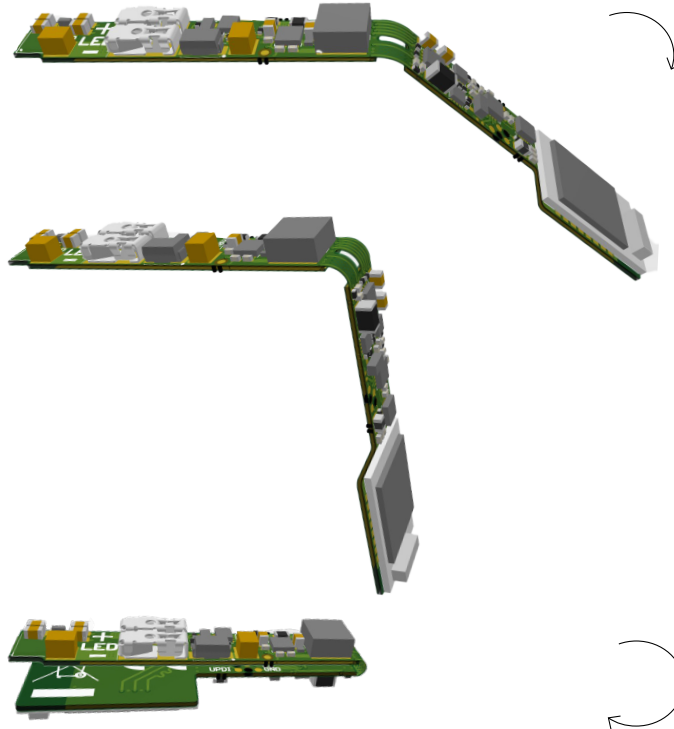
illustrations and dimensions

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## Illustration



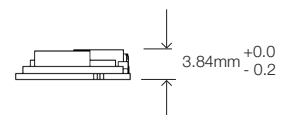
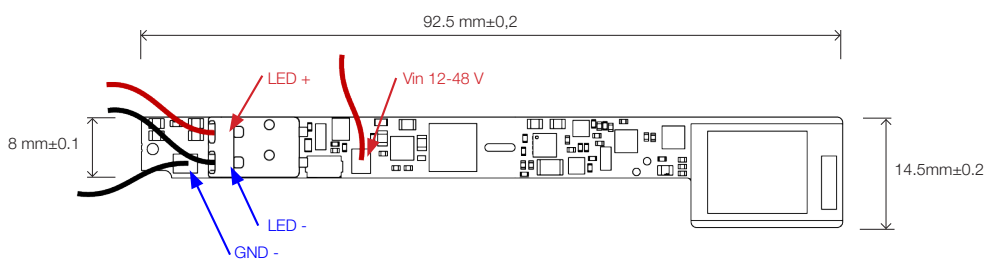
## Illustrations possible bending



## Dimensions

Drawing Top Side (Scale 1:1)

Drawing Right Side (Scale 1:1)



### Clamp Notes (Adels SMDblank/ 1)

1. Wire Gauge min 0,08 mm<sup>2</sup>
2. Wire Gauge max 0,5 mm<sup>2</sup>
3. stripping length 0,8-0,9 mm
4. For more information please refer to:  
<https://www.adels-contact.com/data/katalog/montage/SMDBLANK.pdf>