JUMITECH

1 Ch LED Booster/Dimmer

Datasheet

Control Gear

LED ballast usable as PWM Booster or Dimmer with 0-10V control input

Art. Nr. 86459838
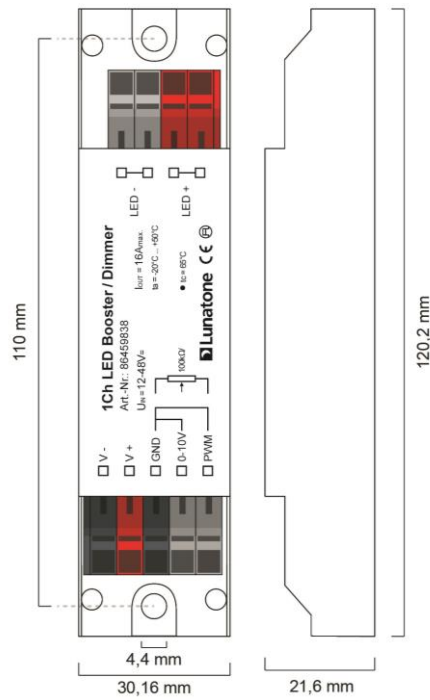
1 Ch LED Booster/Dimmer Control Gear

Overview

- 1 channel LED dimmer
- suitable for constant voltage LED-modules
- control signals: PWM (50Hz-1kHz), 100kOhm potentiometer, 0-10V voltage signal (active and passive)
- logarithmic dimming curve
- Analog input: connection of a 100kOhm potentiometer or a 0-10V control device (active or passive), the 0-10V input signal is transformed in a corresponding PWM output signal
- PWM control signal: suitable for operation with a LED-dimmer with common plus connector
- Supply voltage of 12V to 48V DC, d
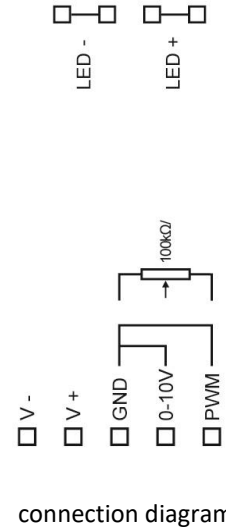- maximum current: 16A
- suitable for remote ceiling

Specifikation, Characteristics

type	1Ch LED Booster Dimmer
article number	86459838

electrical data:

supply	12VDC-48VDC
maximum input current	16A
control input	PWM (50Hz-1kHz) 100kOhm potentiometer 0-10V active/passive

technical data:

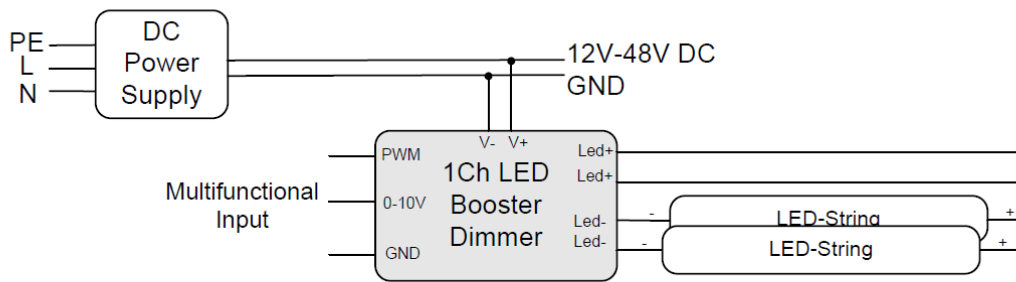|	
storing and transportation temperature	-20°C to +75°C
operating ambient temperature	-20°C to +60°C
expected lifetime (at Tc<=75°C)	>50000h
protection class	IP20
max. connecting wire crosssection	2.5 mm^2
mounting	remote ceiling
dimension (LxWxH)	120mm x 30mm x22mm

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.
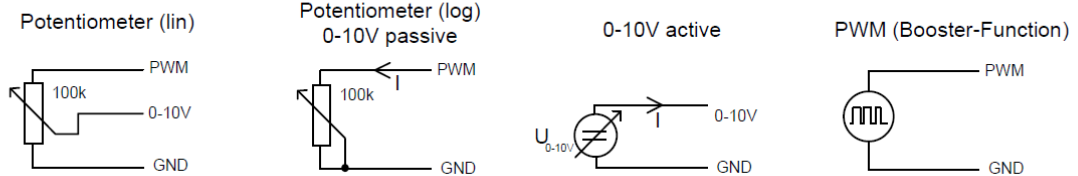
LED -

LED +

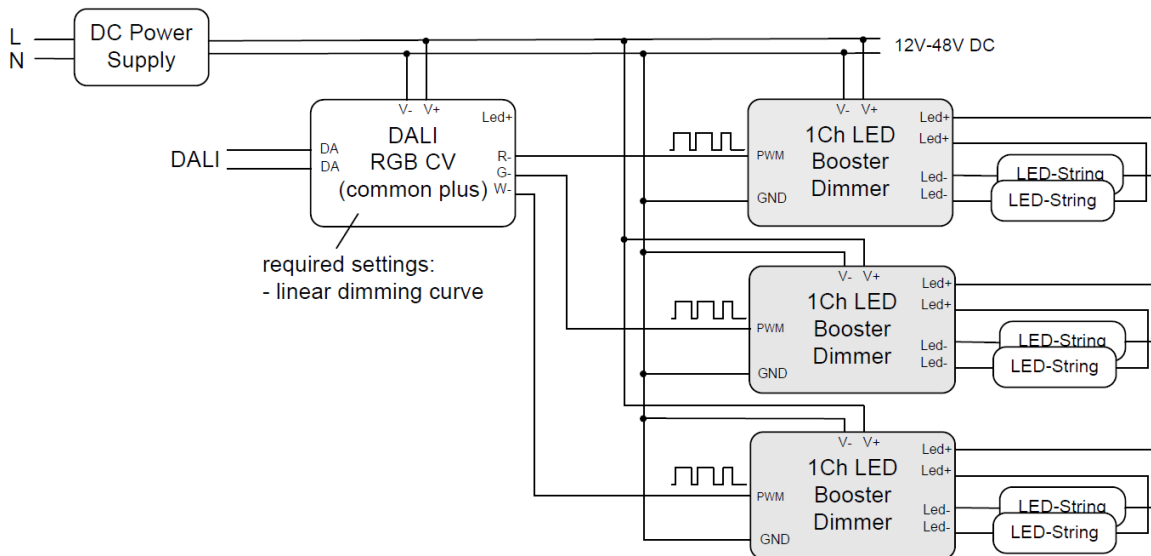1Ch LED Booster / Dimmer
Art.-Nr.: 86459838
U_{in}=12-48V$_{dc}$
I_{out}=16A$_{max}$
ta=-20°C...+50°C
tc=65°C
100kΩ
Lunatone CE

□ V -
□ V +
□ GND
□ 0-10V
□ PWM

110 mm

120,2 mm

4,4 mm
30,16 mm
21,6 mm

geometry

100kΩ/

□ V -
□ V +
□ GND
□ 0-10V
□ PWM

connection diagram

PE
L
N

DC Power Supply

12V-48V DC
GND

V- V+

PWM

Multifunctional Input

0-10V

GND

1Ch LED Booster Dimmer

Led+
Led+
Led-
Led-

LED-String
LED-String

Multifunctional Input:

Potentiometer (lin)

100k

PWM
0-10V
GND

Potentiometer (log)
0-10V passive

100k
I

PWM
GND

0-10V active

U_{0-10V}
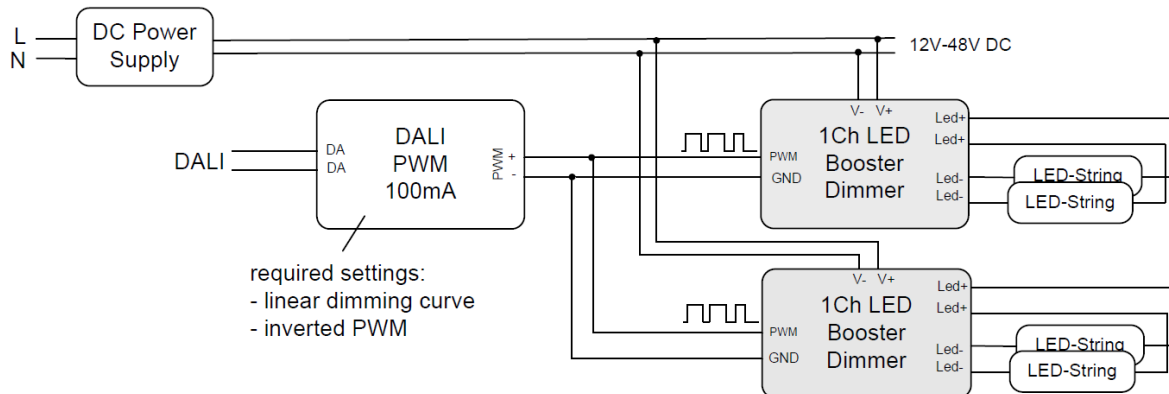I

0-10V
GND

PWM (Booster-Function)

PWM
GND

typical structure & control input configurations

2017/12/20

Application: PWM-Booster for RGB-CV dimmer (common plus connector)

Application: PWM-Booster with DALI PWM module

command sequence for switching dimming curve of a DT6 LED-dimmer to linear:

Type	Hex Data	Address	Command
DALI16 Special	C1 06	*	ENABLE DEVICE TYPE 6
DALI16 AppExt	D6 03 EE	A1	QUERY DIMMING CURVE
DALI8 Answer	00		= 0 (0x00)
DALI16 Special	A3 01	*	DATA TRANSFER REGISTER= 1 (0x01)
DALI16 Special	C1 06	*	ENABLE DEVICE TYPE 6
DALI16 AppExt	D6 03 E3	A1	SELECT DIMMING CURVE
DALI16 AppExt	D6 03 E3	A1	SELECT DIMMING CURVE
DALI16 Special	C1 06	*	ENABLE DEVICE TYPE 6
DALI16 AppExt	D6 03 EE	A1	QUERY DIMMING CURVE
DALI8 Answer	01		= 1 (0x01)

2017/12/20

Additional Information

Datasheets and manuals
https://jumitech/produkter

Contact

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www.jumitech.dk

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DALI   CE

Disclaimer

Subject to change. Information provided without guarantee.
The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance
to the installation.