



BVW3310C

5 channel multi-PWM Dimmer 24 V

3x30W and 2x80W max.

B+Z Art. Nr. 438

Identification number : 3EHP 590402 R0302



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Seite: 1/5



Function / requirements

Unit

BVW3310C is a 5 channel multiple PWM Dimmer with a control input for the basic lighting of service elements in the driver's cab, e.g., displays, lamps, LED's, luminous push button, etc...

Function

The BVW3310C lighting device consists of 5 separate identical units in a common case.

Three canal (units) may be used with a load of max. 30 W each. Two units may be used with a load max. 80 W each. This limitation is just because of the thermal issues in the common case. It basically does not matter which channels are used with which load, as long as the max. power load does not exceed the 250W.

Each canal (unit) can supply a group of service elements and has a relay which monitors the load and is signalling in case of overload. The output is stabilised, pulse wide modulated with a high tact frequency and regardless of load and battery tension.

Each canal (unit) can resist for a short time period a short circuit of an electric light bulb. If the unit is overloaded a longer time, it will switch off independently to protect the components.

To reset the unit it needs to be powered off for a short time.

The basic brightness of the output can be changed by means of a 10 position coded switch.

The "I" Input can optionally be used to control the brightness from the minimum up to the preselected value (preset with the code switch).

Therefore a linear DC Voltage is required at the "I" Input with a range from 0 to 10 Volt DC.

The I input only works if the internal jumper is set to the according position.

Default factory setting is "external" – means the external input active!

A 0-10V control signal can be achieved using our product BVW3313A.

Technical Data

Article name: **BVW3310C**

Mechanical specifications

Measures

Dimensions Length 112mm, Height 112mm, Depth 139mm
Weight approx. 1 kg

Material

Case : Aluminium
Cover : PCB

Mounting



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Created:11.07.2010

Modified: 13.06.13

Index:

Datei: BVW3310C_e_kd.doc

Page: 2/5

BVW3310C
5 fold Dimmer 24V

Free air flow sufficient vertical free air flow is required

Connectors

Each unit has 8 Faston PINS with the dimensions 6,3 x 0,8 mm

Electrical data and pin out

Please note that the values below are valid for each canal (unit)

Power requirements

Voltage Input: 24V DC +25% / -30%
Idle current : ca. 45 mA

Input Pins

+ Batterie	PIN 1	2 same PINS
- Batterie	PIN 2	2 same PINS
I Control Signal	PIN I	0 . . . 10VDC against – Batt

Output Pins

Diagnostic relay contact : PINS 3+4 (closed means = Function OK)

Output : PIN O Regulated output + to Load max . 80 W

Attention : Three canal (units) may be used with a load of max. 30 W each.
Two units may be used with a load max. 80 W each.

Electrical protection

Each canal (unit) can resist for a short time period a short circuit of an electric light bulb. If the unit is overloaded a longer time, it will switch off independently to protect the components.

To reset the unit it needs to be powered off for a short time. Input and output are protected with Transzorb Diodes against excessive voltage peaks.



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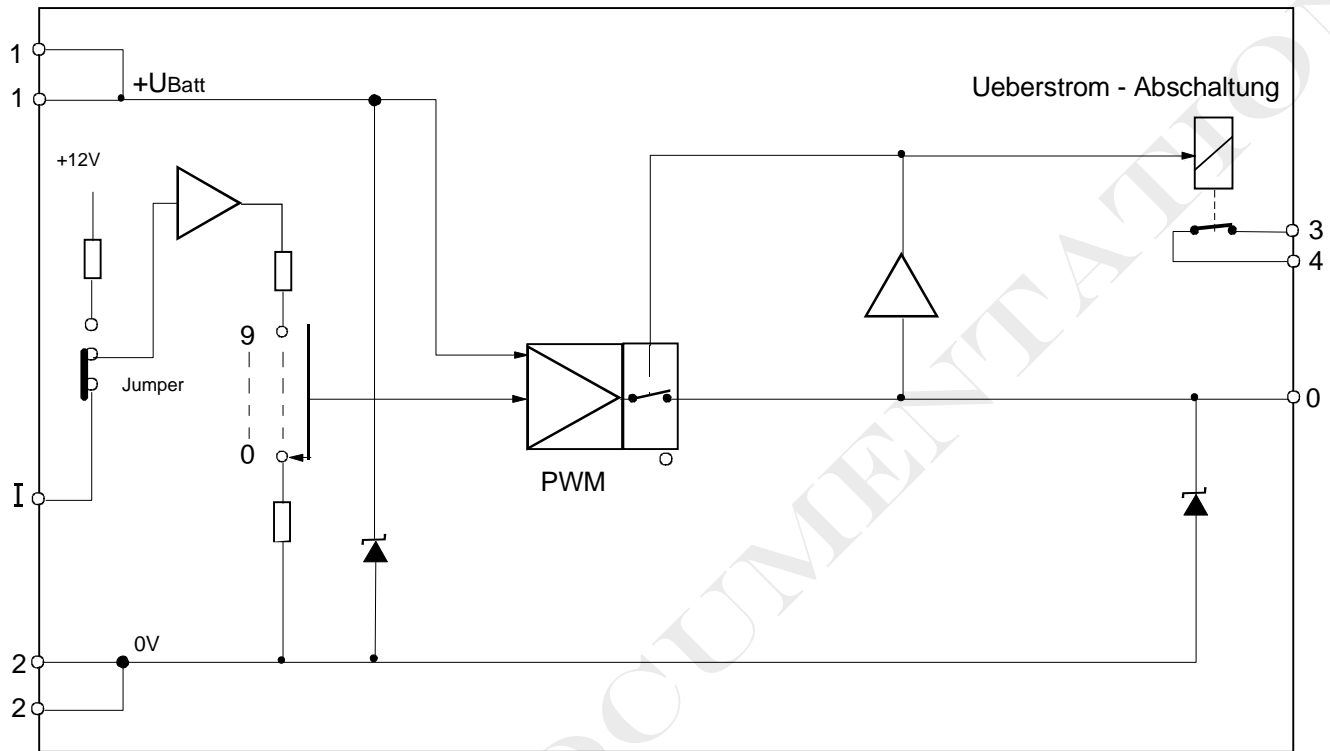
Index:

Datei: BVW3310C_e_kd.doc

Page: 3/5

BVW3310C
5 fold Dimmer 24V

Circuit diagram



I = Input = Steuersignal 0 . . . +10V (z.B. von BVW 3313A oder Leitelektroik)
0 = Leistungs - Output, getaktet

Jumper default factory setting is "external" – means the external input active! An external signal must be connected.



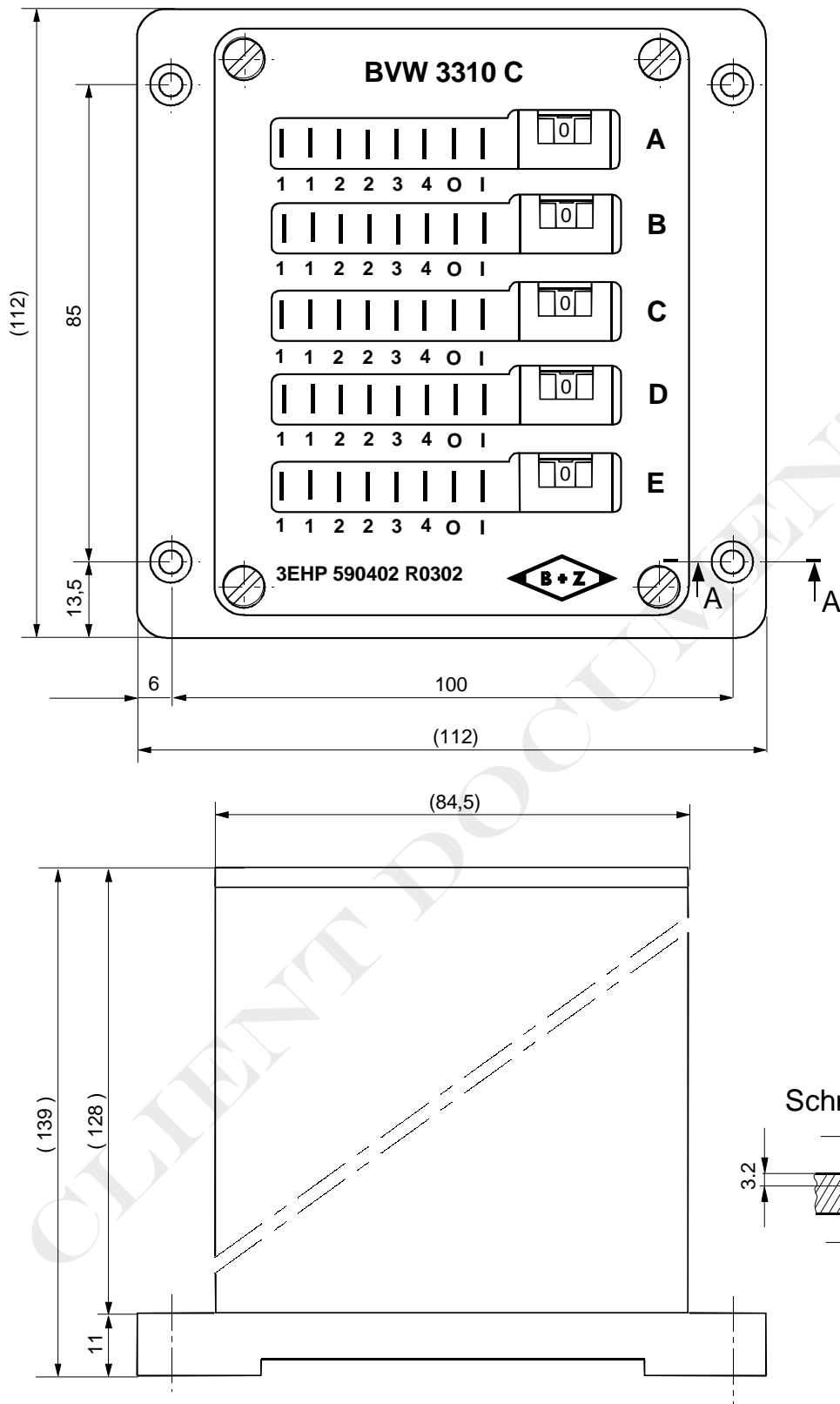
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Created: 11.07.2010
Modified: 13.06.13
Index:
Datei: BVW3310C_e_kd.doc

Page: 4/5

BVW3310C
5 fold Dimmer 24V

Mechanical view



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Created: 11.07.2010

Modified: 13.06.13

Index:

Datei: BVW3310C_e_kd.doc

Geprüft:

Geprüft:

Page: 5/5

BVW3310C
5 fold Dimmer 24V