

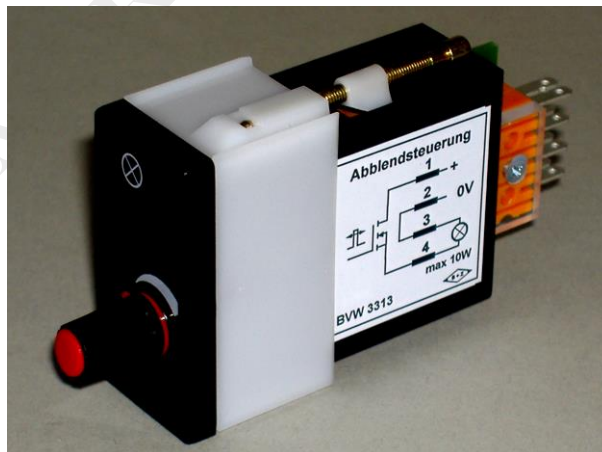


BVW 3313A

Reference value generator 0.7VDC to 10.0VDC (for 24VDC)

B+Z Art. Nr. 37 (505,506,507)

Content:	Page:
1. Description	2
2. Technical data	2
3. Block diagram	3
4. Measures	4



1. Description

1.1. Item

As an addon product to the BVW3313 dimming controller, the BVW3313A unit contains only the setpoint adjuster for a more powerful dimmer control, such as the BVW3310xx series.

The device BVW 3313A has the same housing as the BVW3313 and fits in the same front panel cutout as the low beam control BVW 3313 24V.

1.2. Function

In simple terms, the device has the function of an "ideal" potentiometer:

Stable output voltage, adjustable from 0.7VDC ... 10VDC, independent of the operating voltage

2. Technical data

• Standards

The product is manufactured in accordance with the following standards:

ISO 9001:2015

Electronic equipment used on rolling stock: EN50155

Electromagnetic compatibility: EN50121-3-2

Isolation: EN50124-1

Shock and vibration: EN50155/EN61373

Fire protection according to EN 45545

The standards applicable to this product are dependent on the version available at the time of development.

2.1. Mechanical data

• Dimensions

Measures (HxW) : 24 x 48mm

Built-in depth: 76 mm

Front panel cutout: 21 x 42mm

Weight : approx. 50g

• Connectors

Faston connector (3 pcs / 6,3 x 0.8 mm)

• Wiring

PIN 1 + 24 V operating voltage

PIN 2 0V

PIN 3 Signal output 0.7 ... 10VDC



B + Z Elektronik AG

Created : 07.01.1999
Modification : 23.07.2010
Index:
File: BVW3313A_24V_e_kd.doc

Checked:
Checked:
Page: 2/5

BVW 3313A
Reference value generator 0.7 to 10VDC
(24VDC) Ident.-Nr.: 3EHP590407R0101
(R9101,9102,9103)

• Materials

Housing : Plastic

• Mounting

The device is inserted from the front through the front panel cutout and screwed back with a mounting bracket from the backside.

2.2. Electrical data

2.2.1 Input

Voltage : 24VDC + 25% / - 30%
Idle current : ca. 6 mA

2.2.2. Output

Voltage: + 0.7V ... + 10VDC
Current: ≤ 10mA, short-circuit-proof means at 10V the output current is limited to 11 ... 13mA,
at 1V the output current is limited to 7 ... 8mA.

2.2.3. Electrical protective measures

Reverse polarity protection diode
Transient protection diodes at the input and at the output

2.3. Other conditions

2.3.1. Climatic conditions

Environment temperature: -25°C to +60°C
Humidity : max. 96% rF, at 30°C, non condensing

2.3.2. Marking / labeling setpoint, Inst.-Pic

Symbol type printed inside the front panel:

Lamp symbol (standard)	(EHP59407R0101)	B + Z Art. no. 37
Instruments Illumination Pictogram (Inst. Pic.)	(EHP59407R9101)	B + Z Art. no. 505
Timetable lighting Pictogram (Fp Pic.)	(EHP59407R9102)	B + Z Art. no. 506
Driver's lighting Illumination Pictogram (Fhdp. Pic.)	(EHP59407R9103)	B + Z Art. no. 507

Connection / wiring diagram labeled on the side of the housing

2.3.2. Disposal / Recycling

According to local regulations



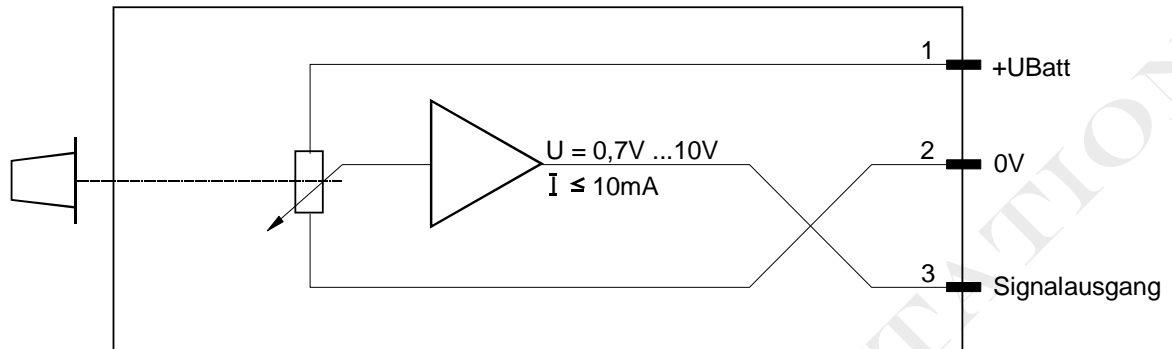
B + Z Elektronik AG

Created : 07.01.1999
Modification : 23.07.2010
Index:
File: BVW3313A_24V_e_kd.doc

Checked:
Checked:
Page: 3/5

BVW 3313A
Reference value generator 0.7 to 10VDC
(24VDC) Ident.-Nr.: 3EHP590407R0101
(R9101,9102,9103)

3. Block diagram



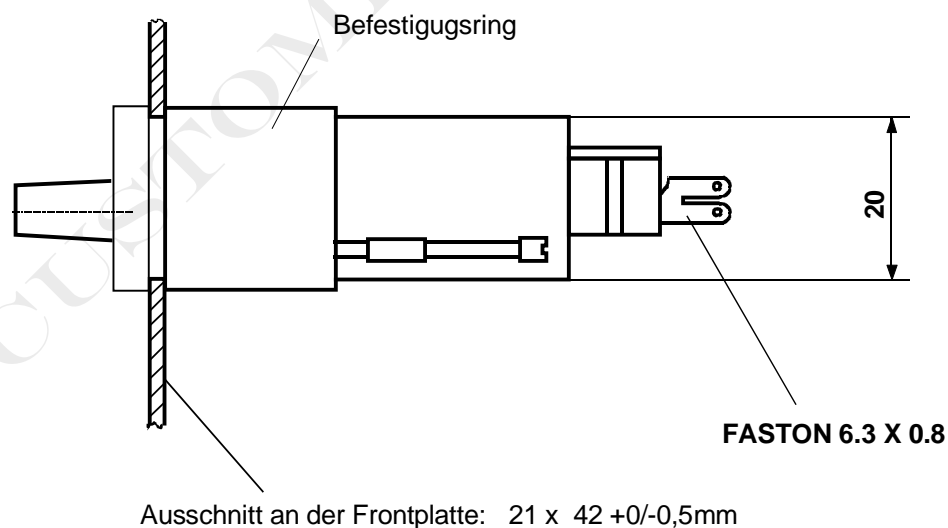
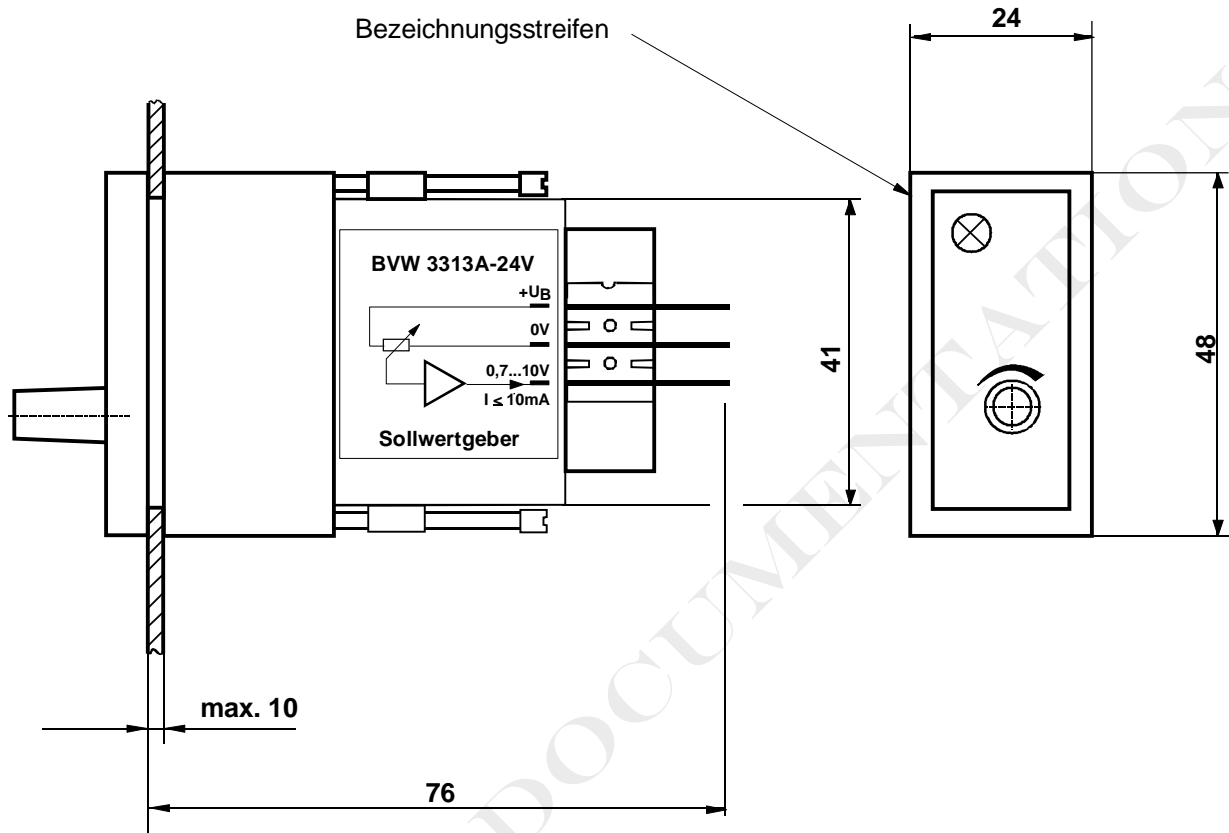
B + Z Elektronik AG

Created : 07.01.1999
Modification : 23.07.2010
Index:
File: BVW3313A_24V_e_kd.doc

Checked:
Checked:
Page: 4/5

BVW 3313A
Reference value generator 0.7 to 10VDC
(24VDC) Ident.-Nr.: 3EHP590407R0101
(R9101,9102,9103)

4. Measures / mounting



B + Z Elektronik AG

Created : 07.01.1999
 Modification : 23.07.2010
 Index:
 File: BVW3313A_24V_e_kd.doc

Checked:
 Checked:
 Page: 5/5

BVW 3313A
 Reference value generator 0.7 to 10VDC
 (24VDC) Ident.-Nr.: 3EHP590407R0101
 (R9101,9102,9103)