



BVW 3230A

Voltage indicator

B+Z Art. Nr. 23

According to standard EN 50155

Electronic devices in rolling stock



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B + Z Elektronik AG
CH-8108 Dällikon
Tel: +41(0)44 8440355
www.bahnelektronik.ch

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Application / function

Application

This voltage indicator is used to indicate dangerous tensions, in particular in the traction circuit or other high voltage system circuits as well as at the train busbar.

Function

The self powered light emitting diode flashes proportionally to the applied tension. The device needs no separate power voltage – it is driven by the High voltage connection.

Flashing rates (average values)

DC Voltage	LED flashes per second(Hz)
4000V	9,15
3000V	7,3
2000V	5,2
1000V	2,8
500V	1,45
250V	0,72
100V	0,27
average time between two pulses	
90V	4 s
50V	ca. 8,5 s
20V	ca. 30 s

Technical data

Type designation: BVW 3230A

Standards

The product is manufactured in accordance with the following standards:

ISO 9001:2008

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.



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BVW3230A
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Ident.-Nr.: HBVW 400726 P3 / P4 / P5

Operating Voltage

Input voltage: 45 . . . 3500V AC/DC

Electrical Protective Measure

Air distance isolation : $\geq 40\text{mm}$
Tracking distance isolation : $\geq 70\text{mm}$

Mechanical data

Dimensions

Dimension : 80 x 80 x 70mm
Weight with cables : ca. 900g
Weight without cables: 580g

Material

Housing : Plastic
Casting resin : Epoxy resin

Mounting

Fixing : M4 screws

Connectors

2 high voltage cables single-wired, each 3m long

Mounting

In any position

Other conditions

Climatic conditions

Environment temperature: -40°C bis +70°C Class T3
Humidity : max 90% rF, at30°C, non condensing.

Labels

Warning label (high voltage danger)
Disposal according to local laws and regulations



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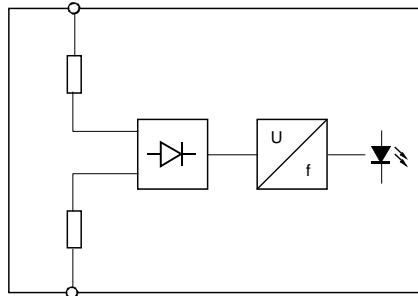
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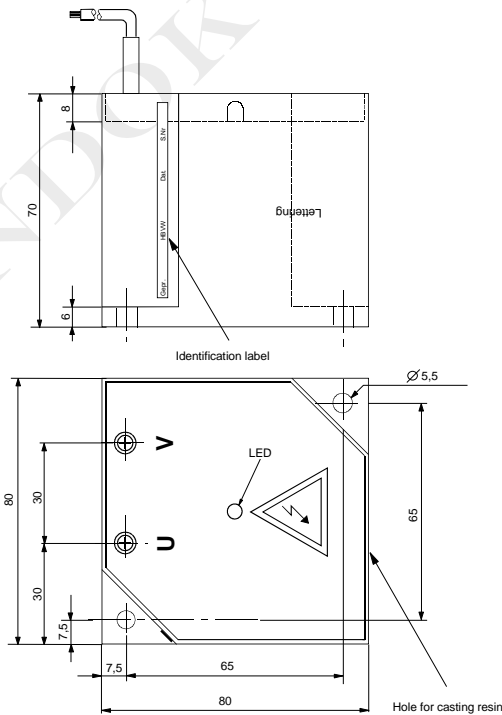
Disposal

According to local regulations

Block diagram



Measures / mounting



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