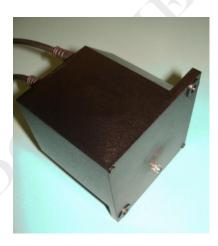


BZ909

Voltage indicator 45V...3500V AC/DC B+Z Art. Nr. 705

According to standard EN 50155

Electronic devices in rolling stock



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Application / function

Application

This voltage indicator is typically used to indicate dangerous tensions, in particular in the traction circuit or other high voltage system circuits as well as at the train busbar. The device needs no other external power - it is self powered by the high voltage connection.

The built in LED on the front side flashes proportionally to the applied tension.

Flashing rates:

Table of frequencies (average values)

AC/ 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

Technical data

Type designation: **BZ909**

Standards

The product is manufactured in accordance with the following standards:

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.

Input voltage

45 . . . 3500V AC/DC Voltage range:

Electrical Protective Measure

Air distance isolation: ≥ 40mm Tracking distance isolation: $\geq 70 mm$



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BZ909 Voltage Indicator 45 bis 3500V AC/DC

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Mechanical data

Measures

Measures (WxHxD): 80x80x71mm Weight with cables: ca. 880 g Weight without cables: ca. 580 g

Materials

Housing: Plastic

Casting resin : Araldit Formula PCB: Epoxy resin

Mounting

Fixing: 2 pcs. M5 Screws

Wiring

2 high voltage cables single-wired, 1.5mm2, each 2m long

Other conditions

Climatic conditions

Environment temperature: -40°C bis +70°C Class T3

Humidity: max 90% rF, at30°C, non condensing.

Labels

Label on housing showing wiring details Warning label (high voltage danger)

Disposal

According to local regulations



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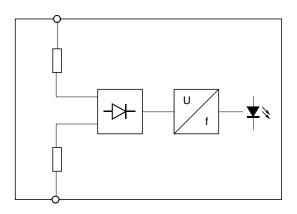
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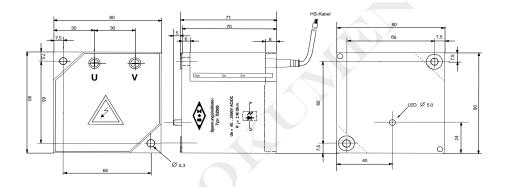
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BZ909 Voltage Indicator 45 bis 3500V AC/DC

Connection / Wiring diagram



Measures / mounting





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