

PRODUCT INFORMATION

ZH1114

Voltage selector for
multi-system railway vehicles



With its voltage and frequency analyzer ZH1114 Schaltbau meets the requirements of modern cross-border traffic.

The ZH1114 identifies the voltage ranges according to UIC 550 and operates as electronic control device for the Schaltbau changeover unit which adapts the individual loads of the railway vehicle to the different detected supply voltages. Additionally, the correct electrical configuration is being tested by the device.

Features:

- Identification of UIC 550 compatible voltages (1 kV 16 $\frac{2}{3}$ Hz/ 1.5 kV 50 Hz/ 1.5 kV DC/ 3 kV DC) and 3 kV 50 Hz
- Meets insulation requirements for 3 kV DC (UIC 550) according to EN 50124-1
- Customised setting of the device via PC – same hardware for different configurations

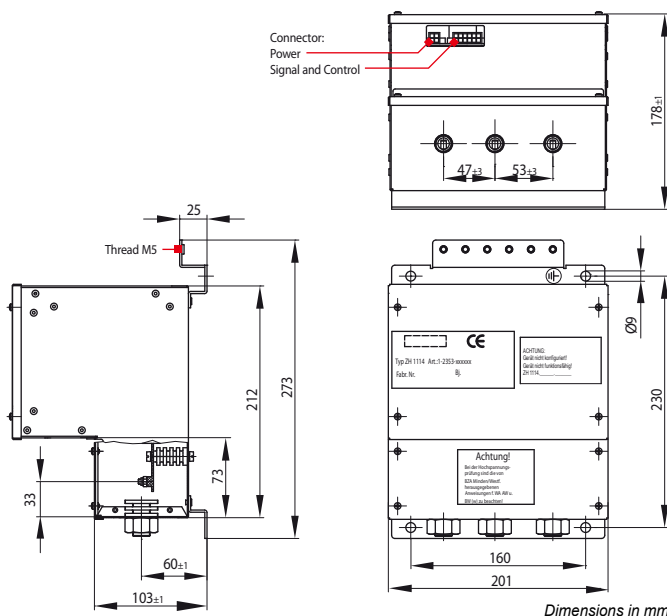
Standards:

- EN 50155 type test incl. insulation, EMC, vibration/shock

Application:

- Adapting the electrical configuration of RIC passenger cars and inverters for auxiliary equipment in locomotives and motorized trains to supply voltage

Dimension diagram



Specifications

Input voltage range according to UIC 550	680 V ... 3,000 V AC, 16% ... 50 Hz 900 V ... 3,000 V DC *
Measurement range	bis 5,000 V AC, 16% ... 50 Hz bis 6,000 V DC
Control voltage U _{nom}	24 V *
Power consumption at U _{nom} without applied high voltage with applied high voltage	90 mA 180 mA
Temperature range	-25°C ... +85°C
Vibration, Schock	IEC 61373
Degree of protection (IEC 60529)	IP20
Dimensions (L x B x H)	(273 x 201 x 178) mm

* Others on request