



ELECTRIC DOUBLE-DECKER MULTIPLE UNIT KISS

BeNEX GmbH/Netinera Deutschland GmbH

For operation on network routes of the Berlin/Brandenburg city rail, BeNEX GmbH and Netinera Deutschland GmbH jointly purchased 16 KISS double-decker multiple units in December 2009. Ostdeutsche Eisenbahn GmbH (ODEG) started operation in December 2009. The 4-car double-decker multiple units have 428 seats, 24 of which are in first class. There are generous multifunctional zones for the transport of bicycles. The KISS range of vehicles is based on a vehicle concept for regional services. The vehicles have a consistent modular structure. The drive areas are concentrated above the motor bogies. For the next timetable change 2022/2023 the vehicles will be used on line RE8 in Netz Elbe-Spree.

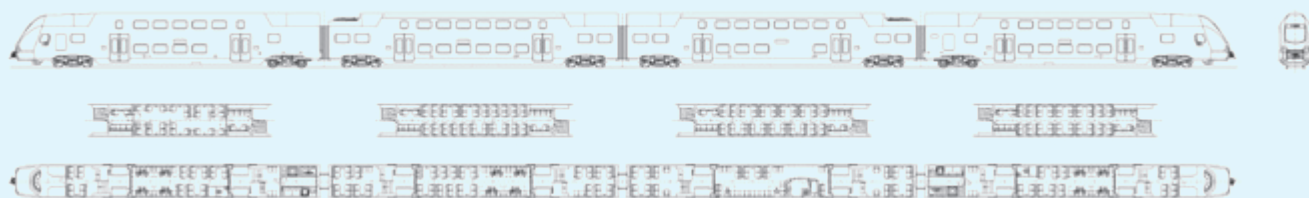
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Technical features

Technology

- Car bodies in fully welded integral aluminium design.
- Optimised access height for 550 platforms
- Motor bogies and trailer bogies with pneumatic suspension
- Multiple unit capability

Comfort

- Bright, air-conditioned passenger compartment with individual design
- LED lighting of passenger compartment
- Generously dimensioned entrance areas for optimum passenger flow.
- Eight entrance doors per side
- Three vacuum toilet systems
- All toilets comply with TSI PRM for people with reduced mobility; one toilet features a changing table
- Seating areas with enhanced seat pitch
- Sliding steps on all doors

Personnel

- Ergonomically designed driver's cab

Reliability / Availability / Maintainability / Safety

- Compliance with the requirements of DIN EN 15227 (crash standard)
- Compliance with the requirements of TSI PRM and TSI Noise
- Compliance with fire protection level 3 in accordance with DIN 5510-1 and operating category 2 in accordance with CEN/TS 42545-1
- Interior video surveillance

Vehicle data

Customer	BeNEX GmbH/ Netinera Deutschland GmbH
Lines serviced	Netz Elbe - Spree, RE8 Wismar <> Wittenberge <> Flughafen BER Terminal 1-2 Berlin Hbf <> Baruth (Mark) <> Elsterwerde/Finsterwalde

Number of vehicles	16
Commissioning	2012
Gauge	1435 mm
Length over coupling	105220 mm
Vehicle width	2800 mm
Vehicle height	4630 mm
Floor height	
Lower deck	440 mm (from top of rail)
Upper deck	2515 mm (from top of rail)
Entrance width	1300 mm (span)
Access height	580 mm
Seats	428
First class	24
Second class	404 (of which 80 tip-up seats)
Axle arrangement	2'Bo' + 2'2' + 2'2' + Bo'2'
Bogie wheelbase	2500 mm
Driving wheel diameter	920 mm (new)
Starting tractive effort	200 kN
Maximum speed	160 km/h
Max. acceleration	0.63 m/s ² up to 80 km/h
Supply voltage	15 kV, 16 2/3 Hz
Continuous output at wheel	2000 kW
Max. output at wheel	3000 kW