

1. Purpose of the Standard

This standard creates the prerequisites for electrical measurements of the occupation of track sections by vehicles at rest and/or in motion (static-dynamic occupation detection) in the case of **two rail operation** in accordance with NEM 620.

2. Bridging resistance

In the case of **vehicles without electrical equipment** a resistance element is attached for bridging the insulation of the wheelset (**bridging resistance**). Design, shape and installation of the bridging resistance can be carried out in any suitable form. Its value is determined as:

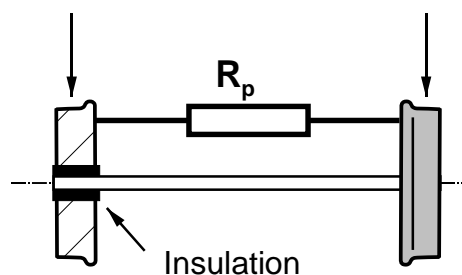
$$R_p = 15 \text{ k}\Omega \text{ (kilo ohms)} \pm 20\%$$

3. Measurement of the bridging resistance

The bridging resistance R_p is determined between the running surfaces of the wheelset.

Fig. 1: Schematic depiction of the wheelset with electrical insulation, bridging resistance and measuring surfaces insulation

Connection surfaces for resistance measurement



4. Note

The number of axles within one train bridged according to this standard is not prescribed.