PD CLC/TR 50624:2014

BSI Standards Publication

# Railway applications — Functional Interface Specification — Pantograph System



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## National foreword

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The UK participation in its preparation was entrusted to Technical Committee GEL/9, Railway Electrotechnical Applications.

A list of organizations represented on this committee can be obtained on request to its secretary.

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TECHNICAL REPORT

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English Version

# Railway applications - Functional Interface Specification - Pantograph System

Applications ferroviaires - Spécification d'interface fonctionnelle - Système de pantographe

To be completed

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (CLC/TR 50624:2014) has been prepared by WG15 of CLC/TC 9X "Electrical and electronic applications for railways".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

## 1 Scope

This Technical Report is covering the description of the pantograph system and the functional interface between the pantograph system itself and the TCMS, including the context of multiple units.

The pantograph system contains the pantograph and the pantograph control. The internal interface between pantograph and pantograph control is not in the scope of this document.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50367, *Railway applications - Current collection systems - Technical criteria for the interaction between pantograph and overhead line (to achieve free access)*

EN 61131-3:2013, *Programmable controllers - Part 3: Programming languages (IEC 61131-3:2013)*

UIC 556, *Information transmission in the train (train-bus)*

## 3 Terms, definitions and abbreviations

For the purposes of this document, the following terms, definitions and abbreviations apply.

### 3.1 Terms

**3.1.1**
**configuration**
action that affects the system function

**3.1.2**
**parameterisation**
action that affects the system behaviour

### 3.2 Abbreviations

All the abbreviations used in this document are listed in Table 1, in alphabetic order referenced to their term.