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BSI Standards Publication

**Railway applications —  
Functional Interface  
Specification — Pantograph  
System**

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**National foreword**

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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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## Foreword

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## 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.