

BSI Standards Publication

Railway applications – Signalling and control systems for non UGTMS Urban Rail systems



BS EN 50668:2019 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN 50668:2019.

The UK participation in its preparation was entrusted to Technical Committee GEL/9/1, Railway Electrotechnical Applications - Signalling and communications.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2019 Published by BSI Standards Limited 2019

ISBN 978 0 580 94145 0

ICS 93.100

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2019.

Amendments/corrigenda issued since publication

Date Text affected

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 50668

July 2019

ICS 93.100

English Version

Railway applications - Signalling and control systems for non UGTMS Urban Rail systems

Applications ferroviaires - Systèmes de signalisation et de contrôle pour systèmes ferroviaires urbains non-UGTMS

Bahnanwendungen - Signal- und Zugsteuerungssysteme für städtische Schienenbahnsysteme ohne UGTMS

This European Standard was approved by CENELEC on 2019-07-08. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

© 2019 CENELEC All rights of exploitation in any form and by any means reserved worldwide for CENELEC Members.

Ref. No. EN 50668:2019 E

| Contents | | |
|--------------|--|---|
| Europe | ean foreword | 3 |
| Introdi | uction | 4 |
| 1 | Scope | |
| 1 | • | |
| 2 | Normative references | 5 |
| 3 | Terms, definitions and abbreviations | 5 |
| 3.1 | Terms and definitions | |
| 3.2 | Abbreviations | 6 |
| 4 4.1 | General provisions and boundary conditions | 7 |
| 4.2 | Independent point control | |
| 4.3 | Single track section control | |
| 4.4 | Level crossing control | |
| 4.5 | Route control | 9 |
| 5 | Hazards to be covered | 9 |
| 5.1 | General | |
| 5.2 | Independent point area | |
| 5.3 | Single track section area | |
| 5.4 | Level crossing area | |
| 5.5 | Route control area | |
| 5.5.1 | Hazardous situations in TOS/GOA0 | |
| 5.5.2 | Hazardous situations in NTO/GOA1a | |
| 6 | Functional requirements | |
| 6.1 | General | |
| 6.2 | Independent point control | |
| 6.2.1 | General | |
| 6.2.2 | Set and interlock points | |
| 6.2.3 | Signalling of pointsSingle track section control | |
| 6.3 6.3.1 | General | |
| 6.3.2 | Set and secure single track section | |
| 6.3.3 | Signalling of single track section | |
| 6.4 | Level Crossing Control | |
| 6.4.1 | General | |
| 6.4.2 | Set level crossings | |
| 6.4.3 | Signalling of level crossings for rail traffic | |
| 6.5 | Route control | |
| 6.5.1 | General | |
| 6.5.2 | Set and secure routes | |
| 6.5.3 | Display movement authority | |
| 6.6 | Interface with signal aspects of road traffic controller | |