

Railway applications — Track — Switches and crossings —

Part 5: Switches

ICS 45.080

National foreword

This British Standard is the UK implementation of EN 13232-5:2005+A1:2011. It supersedes BS EN 13232-5:2005, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in the preparation was entrusted to Technical Committee RAE/2 Railway Applications - Track.

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.

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 October 2005

© BSI 2011

ISBN 978 0 580 70117 7

Amendments/corrigenda issued since publication

Date	Comments
30 November 2011	Implementation of CEN amendment A1:2011

English Version

Railway applications - Track - Switches and crossings - Part 5: Switches

Applications ferroviaires - Voie - Appareils de voie - Partie
5: Aiguillages

Bahnanwendungen - Oberbau - Weichen und Kreuzungen -
Teil 5: Zungenvorrichtungen

This European Standard was approved by CEN on 8 August 2005 and includes Amendment 1 approved by CEN on 13 September 2011.

CEN 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 CEN 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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	3
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
3.1 Parts of switches	7
3.2 Types of switches	10
3.2.1 Geometry	10
3.2.2 Construction.....	11
3.2.3 Rail profiles	11
3.3 Joints	11
4 Performance requirements	11
4.1 General.....	11
4.2 Materials	12
4.3 Inclination of the running table	12
5 Design requirements	12
5.1 Geometry and construction.....	12
5.2 Rolling stock data	13
5.2.1 Axle loading and spacing	13
5.2.2 Speed and cant deficiency.....	13
5.3 Supports and fastenings.....	13
5.4 Interface between switch and operating systems.....	13
5.5 Other requirements.....	13
5.6 Drawings.....	13
6 Tolerances and inspection	14
6.1 General.....	14
6.2 Tools and instruments	14
6.3 Critical dimensions.....	14
6.4 Certification	16
6.5 Methods of examination for structural defects	17
6.5.1 Visual	17
6.5.2 Dye penetrant and/or magnetic particle	17
6.5.3 Ultrasound	17
6.5.4 Radiography.....	17
7 Limits and extent of supply	17
8 Identification marks	17
Annex ZA (informative)  Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC 	28