# Railway applications — Track — Switches and crossings —

Part 8: Expansion devices

ICS 45.080



### National foreword

This British Standard is the UK implementation of EN 13232-8:2007+A1:2011. It supersedes BS EN 13232-8:2007, which is withdrawn.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.

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

A list of organizations represented on this subcommittee 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 30 April 2007

 $\odot$  BSI 2011

ISBN 978 0 580 70120 7

### Amendments/corrigenda issued since publication

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

### EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13232-8:2007+A1

October 2011

ICS 93.100

Supersedes EN 13232-8:2007

#### **English Version**

## Railway applications - Track - Switches and crossings - Part 8: Expansion devices

Applications ferroviaires - Voie - Appareils de voie - Partie 8: Appareils de dilatation

Bahnanwendungen - Oberbau - Weichen und Kreuzungen - Teil 8: Auszugsvorrichtungen

This European Standard was approved by CEN on 17 February 2007 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

© 2011 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN 13232-8:2007+A1:2011: E

This is a preview. Click here to purchase the full publication.

Con	ontents	
Forew	ord	3
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
3.1	General definitions	
3.2	Main types of expansion devices	
4	Design	13
4.1	Design inputs	
4.2	Design rules	
4.2.1	General rules	
4.2.2	Wheel/rail interaction	
4.2.3	Specific rules	
4.3	Performance requirements	
4.4	Materials	
4.5	Design output	
4.5.1 4.5.2	Detailed component plans	
4.5.2	Assembly documents	
5	Tolerances and inspection	
5.1	General	
5.2	Tools and instruments	
5.3	Critical dimensions	
5.4	Adjustment switch (bayonet type)	
5.5	Expansion switch	
5.6	Certification	
5.7	Methods of examination for structural defects	
5.7.1 5.7.2	Visual	
5.7.2	Dye penetrant and/or magnetic particle	
6	Longitudinal resistance testing	
6.1	Test method	
6.2	Test results	33
7	Acceptance testing	33
8	Limits and extent of supply	34
9	Identification marks	34
Annex	ZA (informative) A Relationship between this European Standard and the Essential	35