

Primary batteries —

Part 3: Watch batteries

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee CPL/35, Primary batteries, upon which the following bodies were represented:

- British Battery Manufacturers' Association
- British Horological Federation
- British Horological Institute
- British Railways Board
- British Toy and Hobby Association
- Consumer Policy Committee of BSI
- Consumers' Association
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- Department of Transport
- Federation of the Electronics Industry
- Institute of Trading Standards Administration
- Ministry of Defence

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 July 1996

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The following BSI references relate to the work on this standard:
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National foreword

This British Standard has been prepared by Technical Committee CPL/35 and is the English language version of EN 60086-3 *Primary batteries — Part 3: Watch batteries*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC/ISO 86-3:1995 published by the International Electrotechnical Commission (IEC). CENELEC have added a note to informative Annex A which is indicated by a single line in the margin.

Cross-references

Publication referred to	Corresponding British Standard
IEC 86-1:1995	BS EN 60086 <i>Primary batteries</i> Part 1:1996 <i>General</i>

Product certification. Users of this British Standard are advised to consider the desirability of third party certification of product conformity with this British Standard based on testing and continuing surveillance, which may be coupled with assessment of a supplier's quality systems against the appropriate Part of BS EN ISO 9000.

Enquiries as to the availability of third party certification schemes will be forwarded by BSI to the Association of British Certification Bodies. If a third party certification scheme does not already exist, users should consider approaching an appropriate body from the list of Association members.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 18, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

English version

Primary batteries Part 3: Watch batteries

(IEC/ISO 86-3:1995)

Piles électriques
Partie 3: Piles pour montres
(CEI/ISO 86-3:1995)

Primärbatterien
Teil 3: Uhrenbatterien
(IEC/ISO 86-3:1995)

This European Standard was approved by CENELEC on 1995-07-04. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

The text of document 35/569/DIS, future edition 1 of IEC/ISO 86-3, prepared by IEC TC 35, Primary cells and batteries and ISO TC 114, Horology, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60086-3 on 1995-07-04.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1996-08-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1996-08-01

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZA is normative and Annex A informative. Annex ZA has been added by CENELEC.

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1 Scope

This part of IEC 86 specifies dimensions, designation, methods of tests and requirements for primary batteries for watches. In several cases, a menu of test methods is given. When presenting battery electrical characteristics and/or performance data, the manufacturer specifies which test method was used.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 86. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 86 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

- IEC 86-1:1993, *Primary batteries — Part 1: General*.
1994, *Amendment 1*
- IEC 86-2:1994, *Primary batteries — Part 2: Specification sheets*.
- ISO 2859:1974, *Sampling procedures and tables for inspection by attributes*.

NOTE Further references are given in Annex A.

3 Definitions

For the purpose of this part of IEC 86, the definitions given in IEC 86-1 apply.

4 Mechanical requirements

4.1 Dimensions and size codes

Dimensions and tolerances of batteries for watches shall be in accordance with Figure 1, Table 1 A and Table 1 B. The dimensions of the batteries shall be tested in accordance with 8.2.

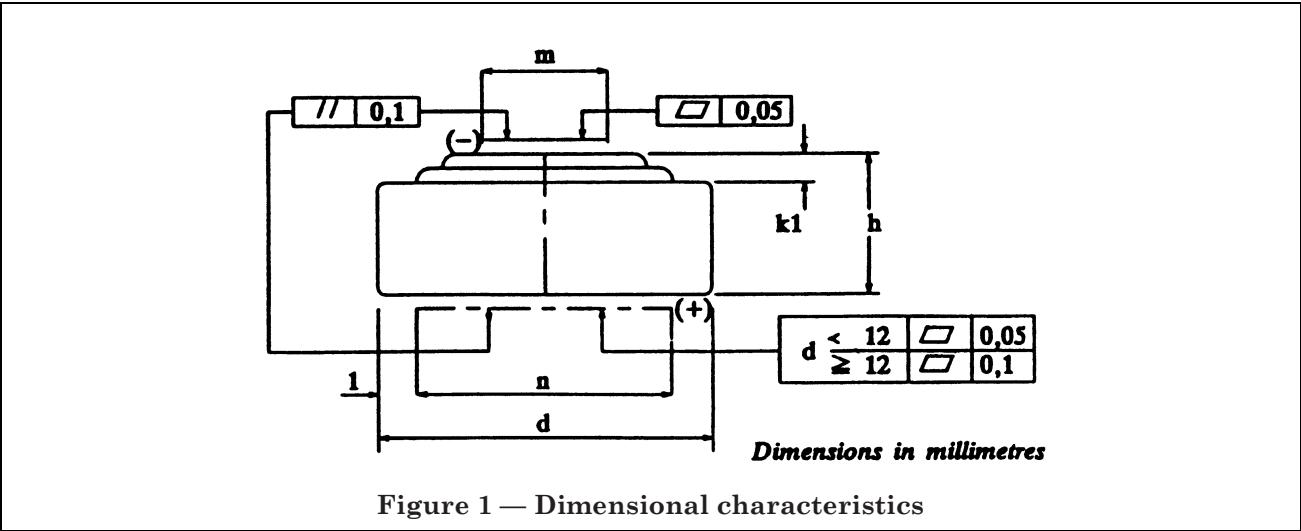


Table 1 A — Dimensions and size codes

Dimensions in millimetres

Diameter			m _{min}	Height h														
Code ^a d Tol.				Code ^a														
				10	12	14	16	20	21	25	26	27	30	31	32	36	42	54
				Tolerance														
				0 −0,10	0 −0,15	0 −0,15	0 −0,18	0 −0,20	0 −0,20	0 −0,20	0 −0,20	0 −0,20	0 −0,25	0 −0,25	0 −0,25	0 −0,25	0 −0,25	0 −0,25
4	4,8	0 −0,15					1,65		2,15									
5	5,8	0 −0,15	2,6	1,05	1,25	1,45	1,65		2,15			2,70						
6	6,8	0 −0,15	3,0	1,05	1,25	1,45	1,65		2,15		2,60							
7	7,9	0 −0,15	3,5	1,05	1,25	1,45	1,65		2,10		2,60			3,10		3,60		
9	9,5	0 −0,15	4,5	1,05	1,25	1,45	1,65	2,05				2,70				3,60		
11	11,6	0 −0,20	6,0	1,05	1,25	1,45	1,65	2,05			2,60		3,05			3,60	4,20	5,40
12	12,5	0 −0,25	4,0		1,20		1,60	2,00		2,50								
NOTE Open boxes in the above matrix are not necessarily available for standardization due to the concept of overlapping tolerances.																		
^a See clause 6.																		