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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 62013-1:2006

ICS 29.260.20

CAPLIGHTS FOR USE IN MINES SUSCEPTIBLE TO FIREDAMP -- PART 1: GENERAL REQUIREMENTS - CONSTRUCTION AND TESTING IN RELATION TO THE RISK OF EXPLOSION (IEC 62013-1:2005 (EQV))

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62013-1

July 2006

ICS 29.260.20

Supersedes EN 62013-1:2002

English version

Caplights for use in mines susceptible to firedamp
Part 1: General requirements - Construction and testing in relation to the risk of explosion
(IEC 62013-1:2005)

Lampes-chapeaux utilisables dans les mines grisouteuses
Partie 1: Exigences générales - Construction et essais liés au risque d'explosion
(CEI 62013-1:2005)

Kopfleuchten für die Verwendung in schlagwettergefährdeten Grubenbauen
Teil 1: Allgemeine Anforderungen - Konstruktion und Prüfung in Relation zum Explosionsrisiko
(IEC 62013-1:2005)

This European Standard was approved by CENELEC on 2006-02-01. 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, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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

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Ref. No. EN 62013-1:2006 E

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Foreword

The text of document 31/587A/FDIS, future edition 2 of IEC 62013-1, prepared by IEC TC 31, Equipment for explosive atmospheres, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62013-1 on 2006-02-01.

This European Standard is to be read in conjunction with EN 60079-0 as applicable to “Equipment-group I / Category M2”.

This European Standard supersedes EN 62013-1:2002.

The general revision and updating of EN 62013-1:2002 is a result of feedback from the manufacturers and the certifiers following the use of the standard. Its purpose is clarification and the elimination of any ambiguities. Account has also been taken of changes in related standards.

Apart from the general revision and updating, the main technical differences from EN 62013-1:2002 are as follows:

a) the addition of a subclause (4.5) relating to maximum surface temperature (see also 5.3);

b) overcurrent protection clarifications and changes;

c) battery clause amended to allow pressurized/hermetically sealed cells;

d) clause on documentation added.

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)	2007-02-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2009-02-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive 94/9/EC. See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62013-1:2005 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60050-845	1987	International Electrotechnical Vocabulary (IEV) Chapter 845: Lighting	-	-
IEC 60079-0 (mod)	2004	Electrical apparatus for explosive gas atmospheres Part 0: General requirements	EN 60079-0	2006
IEC 60079-1	2003	Electrical apparatus for explosive gas atmospheres Part 1: Flameproof enclosures 'd'	EN 60079-1 + corr. April	2004 2006
IEC 60079-7	2001	Electrical apparatus for explosive gas atmospheres Part 7: Increased safety "e"	EN 60079-7	2003
IEC 60079-11	1999	Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety "i"	-	-
IEC/TR 60079-20	1996	Electrical apparatus for explosive gas atmospheres Part 20: Data for flammable gases and vapours, relating to the use of electrical apparatus	-	-
IEC 60127-2 A1	2003 2003	Miniature fuses Part 2: Cartridge fuse-links	EN 60127-2 A1	2003 2003
IEC 60332-1 [1)]	1993	Tests on electric cables under fire conditions Part 1: Test on a single vertical insulated wire or cable	-	-
IEC 60529 A1	1989 1999	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May A1	1991 1993 2000

[1)] IEC 60332-1 is superseded by IEC 60332-1-1:2004 and IEC 60332-1-2:2004, which are harmonized as EN 60332-1-1:2004 and EN 60332-1-2:2004.

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Annex ZZ
(informative)

Coverage of Essential Requirements of EC Directives

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers only the following essential requirements out of those given in Annex II of the EC Directive 94/9/EC:

- ER 1.0.1 to ER 1.0.6
- ER 1.1.1, ER 1.1.2, ER 1.1.3
- ER 1.2.1 to ER 1.2.8
- ER 1.3.1, ER 1.3.2
- ER 1.4.1, ER 1.4.2
- ER 2.0.2.1 to ER 2.0.2.3

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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