



National Standards Authority of Ireland

STANDARD

**I.S. EN 60825-12:2004**

ICS 31.260

**SAFETY LASER PRODUCTS PART 12:  
SAFETY OF FREE SPACE OPTICAL  
COMMUNICATION SYSTEMS USED FOR  
TRANSMISSION OF INFORMATION (IEC  
60825-12:2004)**

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EUROPEAN STANDARD

**EN 60825-12**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2004

ICS 31.260

English version

**Safety of laser products**  
**Part 12: Safety of free space optical communication systems**  
**used for transmission of information**  
(IEC 60825-12:2004)

Sécurité des appareils à laser  
Partie 12 : Sécurité des systèmes  
de communications optiques  
en espace libre utilisés  
pour la transmission d'informations  
(CEI 60825-12:2004)

Sicherheit von Lasereinrichtungen  
Teil 12: Sicherheit von optischen  
Freiraumkommunikationssystemen  
für die Informationsübertragung  
(IEC 60825-12:2004)

This European Standard was approved by CENELEC on 2004-04-01. 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, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 76/281/FDIS, future edition 1 of IEC 60825-12, prepared by IEC TC 76, Optical radiation safety and laser equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60825-12 on 2004-04-01.

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) 2005-01-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2007-04-01

This European Standard was prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and supports the essential requirements of Directive 1999/5/EC.

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60825-12:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60812	NOTE	Harmonized as HD 485 S1:1987 (not modified).
IEC 61508	NOTE	Harmonized in EN 61508 series (not modified).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60825-1	1993	Safety of laser products Part 1: Equipment classification, requirements and user's guide	EN 60825-1 + corr. February	1994 1995
A1	1997		A1	2002
A2	2001		A2 + corr. April	2001 2004
IEC 60825-2	- <sup>1)</sup>	Part 2: Safety of optical fibre communication systems	EN 60825-2	2000 <sup>2)</sup>

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<sup>1)</sup> Undated reference.

<sup>2)</sup> Valid edition at date of issue.



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