SLOVENSKI STANDARD
SIST EN 60825-2:2005/A2:2010

01-december-2010

Varnost laserskih izdelkov - 2. del: Varnost komunikacijskih sistemov z optičnimi vlakni (OFCS) - Dopolnilo A2 (IEC 60825-2:2004/A2:2010)

Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS) (IEC 60825-2:2004/A2:2010)

Sicherheit von Lasereinrichtungen - Teil 2: Sicherheit von Lichtwellenleiter-Kommunikationssystemen (LWLKS) (IEC 60825-2:2004/A2:2010)

Sécurité des appareils à laser - Partie 2: Sécurité des systèmes de télécommunication par fibres optiques (STFO) (CEI 60825-2:2004/A2:2010)

Ta slovenski standard je istoveten z: **EN 60825-2:2004/A2:2010**

ICS:

13.280	Varstvo pred sevanjem	Radiation protection
33.180.01	Sistemi z optičnimi vlakni na splošno	Fibre optic systems in general

SIST EN 60825-2:2005/A2:2010 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60825-2/A2

October 2010

ICS 31.260; 33.180.01

English version

Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)

(IEC 60825-2:2004/A2:2010)

Sécurité des appareils à laser - Partie 2: Sécurité des systèmes de télécommunication par fibres optiques (STFO)
(CEI 60825-2:2004/A2:2010)

Sicherheit von Lasereinrichtungen - Teil 2: Sicherheit von Lichtwellenleiter-Kommunikationssystemen (LWLKS)
(IEC 60825-2:2004/A2:2010)

This amendment A2 modifies the European Standard EN 60825-2:2004; it was approved by CENELEC on 2010-10-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 amendment 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, Bulgaria, Croatia, 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 60825-2:2004/A2:2010 E

Foreword

The text of document 76/409/CDV, future amendment 2 to IEC 60825-2:2004, 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 amendment A2 to EN 60825-2:2004 on 2010-10-01.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

The following dates were fixed:

– latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2011-07-01
– latest date by which the national standards conflicting with the amendment have to be withdrawn	(dow)	2013-10-01

Endorsement notice

The text of amendment 2:2010 to the International Standard IEC 60825-2:2004 was approved by CENELEC as an amendment to the European Standard without any modification.

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.

Replace the existing reference and its amendments by the following:

Publication	Year	Title	EN/HD	Year
IEC 60825-1	2007	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	2007

IEC 60825-2

Edition 3.0 2010-09

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Safety of laser products –
Part 2: Safety of optical fibre communication systems (OFCS)

Sécurité des appareils à laser –
Partie 2: Sécurité des systèmes de télécommunication par fibres optiques (STFO)

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FOREWORD

This amendment has been prepared by IEC technical committee 76: Optical radiation safety and laser equipment

The text of this amendment is based on the following documents:

Enquiry draft	Report on voting
76/409/CDV	76/419/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

Foreword

In the list of parts of the IEC 60825 series, delete the following:

Part 6: Safety of products with optical sources, exclusively used for visible information transmission to the human eye

Part 7: Safety of products emitting infrared optical radiation, exclusively used for wireless 'free air' data transmission and surveillance

Replace the title of Part 8 as follows:

Part 8: Guidelines for the safe use of laser beams on humans

Add the title of the following new part:

Part 13: Measurements for classification of laser products

1 Scope and object

Add, after the sixth paragraph ("Throughout this part of IEC 60825..., (LEDs) and optical amplifiers.") the following new note:

NOTE 2 The optical hazard of light emerging from a fibre is determined by the wavelength and power emerging from the fibre and the optical characteristics of the fibre. (See Annex A.).

Renumber the existing note as Note 1.

2 Normative references

Replace the existing reference and its amendments by the following:

IEC 60825-1:2007, *Safety of laser products – Part 1: Equipment classification and requirements*

3.5
hazard level 1

Add to the end of the definition:

". The level of radiation is measured with the conditions for Class 1 laser products (see IEC 60825-1), but with condition 2 being as defined in clause 4.8.1 of this standard (IEC 60825-2)"

3.6
hazard level 1M

Delete the final phrase of the existing definition as follows: ". . . whereby the level of radiation is measured with the measurement conditions for Class 1M laser products (see IEC 60825-1)".

Add to the end of the definition (before the note):

". The level of radiation is measured with the conditions for Class 1M laser products (see IEC 60825-1), but with condition 2 being as defined in clause 4.8.1 of this standard (IEC 60825-2)"

3.7
hazard level 2

Add to the end of the definition (before the note):

". The level of radiation is measured with the conditions for Class 2 laser products (see IEC 60825-1), but with condition 2 being as defined in clause 4.8.1 of this standard (IEC 60825-2)"

3.8
hazard level 2M

Delete the final phrase of the existing definition as follows: ". . . whereby the level of radiation is measured with the measurement conditions for Class 2M laser products (see IEC 60825-1)".

Add to the end of the definition (before the note):

". The level of radiation is measured with the conditions for Class 2M laser products (see IEC 60825-1), but with condition 2 being as defined in clause 4.8.1 of this standard (IEC 60825-2)"

3.9
hazard level 3R

Add to the end of the definition (before the note):

". The level of radiation is measured with the conditions for Class 3R laser products (see IEC 60825-1), but with condition 2 being as defined in clause 4.8.1 of this standard (IEC 60825-2)"