



# SLOVENSKI STANDARD SIST EN 61291-4:2008

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Optical amplifiers - Part 4: Multichannel applications - Performance specification  
template (IEC 61291-4:2008)

Lichtwellenleiter-Verstärker - Teil 4: Mehrkanalanwendungen - Vorlage für  
Leistungsspezifikationen (IEC 61291-4:2008)

Amplificateurs optiques - Partie 4: Applications aux canaux multiples - Modèle de  
spécification de fonctionnement (CEI 61291-4:2008)

Ta slovenski standard je istoveten z: EN 61291-4:2008

**ICS:**

33.180.30 U] cã } ã (æ ^çæ) ã ã Optic amplifiers

SIST EN 61291-4:2008 en,fr

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61291-4**

September 2008

ICS 33.180.30

Supersedes EN 61291-4:2003

English version

**Optical amplifiers -  
Part 4: Multichannel applications -  
Performance specification template  
(IEC 61291-4:2008)**

Amplificateurs optiques -  
Partie 4: Applications  
aux canaux multiples -  
Modèle de spécification  
de fonctionnement  
(CEI 61291-4:2008)

Lichtwellenleiter-Verstärker -  
Teil 4: Mehrkanalanwendungen -  
Vorlage für Leistungsspezifikationen  
(IEC 61291-4:2008)

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This European Standard was approved by CENELEC on 2008-08-01. 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, Bulgaria, 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**

## Foreword

The text of document 86C/774/CDV, future edition 2 of IEC 61291-4, prepared by SC 86C, Fibre optic systems and active devices, of IEC TC 86, Fibre optics, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61291-4 on 2008-08-01.

This European Standard supersedes EN 61291-4:2003.

The main significant changes are the following:

- the applicability has been extended to all commercially available optical amplifiers, not just optical fibre amplifiers;
- Clause 7, EMC, has been added;
- references to applicable test methods have been updated.

This standard is to be used in conjunction with EN 61291-1:2006.

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) 2009-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-08-01

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 61291-4:2008 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61280                      NOTE Harmonized in EN 61280 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 When 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	- <sup>1)</sup>	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	2007 <sup>2)</sup>
IEC 61290	Series	Optical amplifiers - Test methods	EN 61290	Series
IEC 61291-1	2006	Optical amplifiers - Part 1: Generic specification	EN 61291-1	2006
IEC 61291-5-2	- <sup>1)</sup>	Optical amplifiers - Part 5-2: Qualification specifications - Reliability qualification for optical fibre amplifiers	EN 61291-5-2	2002 <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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IEC 61291-4

Edition 2.0 2008-07

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

Optical amplifiers – **STANDARD PREVIEW**  
Part 4: Multichannel applications – Performance specification template  
(standards.iteh.ai)

Amplificateurs optiques –  
Partie 4: Applications aux canaux multiples – Modèle de spécification de  
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SIST EN 61291-4:2008  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL AMPLIFIERS –

**Part 4: Multichannel applications –  
Performance specification template**

## FOREWORD

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International Standard IEC 61291-4 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2003 and constitutes a technical revision. The main significant changes are the following:

- a) the applicability has been extended to all commercially available optical amplifiers, not just optical fibre amplifiers;
- b) Clause 7, EMC, has been added.
- c) references to applicable test methods have been updated.