

5_hj bY_ca dcbYbhY]b'bUdfUj Y'cdh] b] \ `j`U_Yb!'=nj YXVYb]ghUbXUfX!'&"XY.
 8]g_fYfb]`UgYf]g'dcj fy]bg_c`Ya]g]c`]b'bUj d] b]a `fYgcbUrcf^Ya `n]j Ucj bc`Xc`y]bc
 ,) \$'bUbc a Yffcj `f197 `* &%/ - !& &\$ \$- £

Fibre optic active components and devices - Performance standard - Part 2: 850 nm discrete vertical cavity surface emitting laser devices (IEC 62149-2:2009)

Aktive Lichtwellenleiterbauelemente und -geräte - Betriebsverhalten - Teil 2: Oberflächenemittierende 850-nm-Laserbauelemente mit Vertikalresonator (IEC 62149-2:2009)

Composants et dispositifs actifs à fibres optiques - Normes de fonctionnement - Partie 2: Dispositifs discrets à laser 850 nm émettant par la surface (CEI 62149-2:2009)

Ta slovenski standard je istoveten z: EN 62149-2:2009

ICS:

33.180.20 Ú[ç^: [çæ] ^Á æ] |æ^Á æ Fibre optic interconnecting devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 62149-2

September 2009

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English version

**Fibre optic active components and devices -
Performance standards -
Part 2: 850 nm discrete vertical cavity surface emitting laser devices
(IEC 62149-2:2009)**

Composants et dispositifs actifs
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850-nm-Laserbauelemente
mit Vertikalresonator
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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.

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

Central Secretariat: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86C/886/FDIS, future edition 1 of IEC 62149-2, 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 62149-2 on 2009-08-01.

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) 2010-05-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2012-08-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62149-2:2009 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 60191	NOTE	Harmonized in EN 60191 series (not modified).
IEC 60747-5-1	NOTE	Harmonized as EN 60747-5-1:2001 (not modified).
IEC 60874	NOTE	Harmonized in EN 60874 series (not modified).
IEC 62007-1	NOTE	Harmonized as EN 62007-1:2009 (not modified).
IEC 62007-2	NOTE	Harmonized as EN 62007-2:2009 (not modified).
IEC 62148-1	NOTE	Harmonized as EN 62148-1:2002 (not modified).
IEC 62149-1	NOTE	Harmonized as EN 62149-1:2004 (not modified).

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 60749	Series	Semiconductor devices - Mechanical and climatic test methods	EN 60749	Series
IEC 60825	Series	Safety of laser products	EN 60825	Series
IEC 60950-1 (mod)	- ¹⁾	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1 + A11	2006 ²⁾ 2009
IEC 61300-2-4	- ¹⁾	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	1997 ²⁾
IEC 61300-2-19	- ¹⁾	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	2005 ²⁾
IEC 61300-2-48	- ¹⁾	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-48: Tests - Temperature-humidity cycling	EN 61300-2-48	2009 ²⁾
IEC Guide 107	2009	Electromagnetic compatibility - Guide to the drafting of electromagnetic compatibility publications	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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Part 2: 850 nm discrete vertical cavity surface emitting laser devices**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
PERFORMANCE STANDARDS –**
Part 2: 850 nm discrete vertical cavity surface emitting laser devices

FOREWORD

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International Standard IEC 62149-2 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86C/886/FDIS	86C/914/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62149 series, published under the general title *Fibre optic active components and devices – Performance standards*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result 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.

A bilingual version of this publication may be issued later.

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INTRODUCTION

Fibre optic laser devices are used to convert electrical signals into optical signals. This part of IEC 62149 covers the performance specification for 850-nm discrete vertical cavity surface emitting laser devices in fibre optic telecommunication and optical data transmission applications.

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