
**Aktivne komponente in naprave optičnih vlaken - Tehnični standardi - 7. del:
Diskretni 310 nm-ski laserji s površinsko emisijo in navpičnim resonatorjem (IEC
62149-7:2012)**

Fibre optic active components and devices - Performance standards - Part 7: 1 310 nm
discrete vertical cavity surface emitting laser devices (IEC 62149-7:2012)

Aktive Lichtwellenleiterbauelemente und -geräte - Betriebsverhaltensnormen - Teil 7: 1
310 nm oberflächenemittierender Laser-Bauteile mit vertikalem Resonator (IEC 62149-
7:2012)

Composants et dispositifs actifs à fibres optiques - Norme de performance - Partie 7:
Dispositifs discrets à laser 1 310 nm émettant en surface (CEI 62149-7:2012)

Ta slovenski standard je istoveten z: EN 62149-7:2012

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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SIST EN 62149-7:2012**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62149-7

May 2012

ICS 33.180.20

English version

**Fibre optic active components and devices -
Performance standards -
Part 7: 1 310 nm discrete vertical cavity surface emitting laser devices
(IEC 62149-7:2012)**

Composants et dispositifs actifs
à fibres optiques -
Norme de performance -
Partie 7: Dispositifs discrets
à laser 1 310 nm émettant en surface
(CEI 62149-7:2012)

Aktive Lichtwellenleiterbauelemente
und -geräte -
Betriebsverhaltensnormen -
Teil 7: 1 310 nm oberflächenemittierender
Laser-Bauteile mit vertikalem Resonator
(IEC 62149-7:2012)

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Foreword

The text of document 86C/1021/CDV, future edition 1 of IEC 62149-7, prepared by IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62149-7:2012.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2013-02-03
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IEC 60191 series	NOTE	Harmonized as EN 60191 series (not modified).
IEC 60747-5-1	NOTE	Harmonized as EN 60747-5-1.
IEC 60793-2	NOTE	Harmonized as EN 60793-2.
IEC 60874 series	NOTE	Harmonized as EN 60874 series (not modified).
IEC 61280-1-3	NOTE	Harmonized as EN 61280-1-3.
IEC 62007-1	NOTE	Harmonized as EN 62007-1.
IEC 62007-2	NOTE	Harmonized as EN 62007-2.
IEC 62148-1	NOTE	Harmonized as EN 62148-1.
IEC 62149-1	NOTE	Harmonized as EN 62149-1.
IEC 62149-4	NOTE	Harmonized as EN 62149-4.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 60950-1	-	Information technology equipment - Safety - Part 1: General requirements	EN 60950-1	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 61300-2-19	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	-
IEC 61300-2-48	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-48: Tests - Temperature-humidity cycling	EN 61300-2-48	-
IEC 62148-15	-	Fibre optic active components and devices - Package and interface standards - Part 15: Discrete vertical cavity surface emitting laser packages	EN 62148-15	-
IEC Guide 107	1998	Electromagnetic compatibility - Guide to the drafting of electromagnetic compatibility publications	-	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic active components and devices – Performance standards –
Part 7: 1 310-nm discrete vertical cavity surface emitting laser devices**

**Composants et dispositifs actifs à fibres optiques – Norme de performance –
Partie 7: Dispositifs discrets à laser 1 310 nm émettant en surface**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
PERFORMANCE STANDARDS –**
**Part 7: 1 310-nm discrete vertical cavity
surface emitting laser devices**

FOREWORD

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International Standard IEC 62149-7 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

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CDV	Report on voting
86C/1021/CDV	86C/1047/RVC

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 the parts in 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 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

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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 1 310 nm discrete vertical cavity surface emitting laser devices in fibre optic telecommunication and optical data transmission applications.

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