SIST

SLOVENSKI STANDARD
SIST EN IEC 62148-15:2021

01-julij-2021

Nadomešča:
SIST EN 62148-15:2014

Aktivne komponente in naprave optičnih vlaken - Standardi za ohišja in vmesnike - 15. del: Ohišja diskretnih laserjev s površinsko emisijo in navpičnim resonatorjem (IEC 62148-15:2021)

Fibre optic active components and devices - Package and interface standards - Part 15: Discrete vertical cavity surface emitting laser packages (IEC 62148-15:2021)

Aktive Lichtwellenleiterbauelemente und -geräte - Gehäuse- und Schnittstellennormen - Teil 15: Einzelgehäuse für oberflächenemittierende Laser mit vertikalem Resonator (IEC 62148-15:2021)

Composants et dispositifs actifs à fibres optiques - Normes de boîtier et d’interface - Partie 15: Boîtiers individuels pour laser à cavité verticale émettant par la surface (IEC 62148-15:2021)

Ta slovenski standard je istoveten z: **EN IEC 62148-15:2021**

ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices

SIST EN IEC 62148-15:2021 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62148-15

May 2021

ICS 33.180.20

Supersedes EN 62148-15:2014 and all of its amendments and corrigenda (if any)

English Version

Fibre optic active components and devices - Package and interface standards - Part 15: Discrete vertical cavity surface emitting laser packages (IEC 62148-15:2021)

Composants et dispositifs actifs fibroniques - Normes de boîtier et d'interface - Partie 15: Boîtiers individuels pour laser à cavité verticale émettant par la surface (IEC 62148-15:2021)

Aktive Lichtwellenleiterbauelemente und -geräte - Gehäuse- und Schnittstellennormen - Teil 15: Einzelgehäuse für oberflächenemittierende Laser mit vertikalem Resonator (IEC 62148-15:2021)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 86C/1709/FDIS, future edition 3 of IEC 62148-15, 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 approved by CENELEC as EN IEC 62148-15:2021.

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) 2022-02-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-05-04

This document supersedes EN 62148-15:2014 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 62148-15:2021 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 60130 (series)	NOTE	Harmonized as EN 60130 (series)
IEC 60191 (series)	NOTE	Harmonized as EN 60191 (series)
IEC 60603 (series)	NOTE	Harmonized as EN 60603 (series)
IEC 60793-2 (series)	NOTE	Harmonized as EN 60793-2 (series)
IEC 60794 (series)	NOTE	Harmonized as EN IEC 60794 (series)
IEC 60825 (series)	NOTE	Harmonized as EN 60825 (series)
IEC 61076 (series)	NOTE	Harmonized as EN IEC 61076 (series)
IEC 61280 (series)	NOTE	Harmonized as EN IEC 61280 (series)
IEC 61281-1	NOTE	Harmonized as EN IEC 61281-1
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 IEC 62148-1
IEC 62149-2	NOTE	Harmonized as EN 62149-2
ISO 1101	NOTE	Harmonized as EN ISO 1101

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-
IEC 60874	series	Fibre optic interconnecting devices and passive components - Connectors for optical fibres and cables	-	-
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	-	-
IEC 61754-4-100	-	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces	EN 61754-4-100	-
IEC 61754-20	-	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 20: Type LC connector family	EN 61754-20	-
IEC 62148-1	-	Fibre optic active components and devices - Package and interface standards - Part 1: General and guidance	EN IEC 62148-1	-
ITU-T G.652	-	Characteristics of a single-mode optical fibre and cable	-	-
ASTM B-652.B	-	Standard Specification for Niobium-Hafnium Alloy Ingots	-	-

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic active components and devices – Package and interface standards – Part 15: Discrete vertical cavity surface emitting laser packages

Composants et dispositifs actifs fibroniques – Normes de boîtier et d'interface – Partie 15: Boîtiers individuels pour laser à cavité verticale émettant par la surface

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FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES – PACKAGE AND INTERFACE STANDARDS –

Part 15: Discrete vertical cavity surface emitting laser packages

FOREWORD

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IEC 62148-15 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2014. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) the classification of optical/electrical interface types is generalized and referred to IEC 62148-1;
b) a new pin mode is added to Table 1;
c) several dimensions of the VCSEL TO CAN package are changed in Table 3 to reflect the current state of technology;
d) Figure 7 is updated to show the complete details of the VCSEL TOSA package.