



SLOVENSKI STANDARD

SIST EN 62148-15:2014

01-oktober-2014

Nadomešča:

SIST EN 62148-15:2010

**Aktivne komponente in naprave optičnih vlaken - Standardi za ohišja in vmesnike
- 15. del: Ohišja diskretnih laserjev s površinsko emisijo in navpičnim
resonatorjem (IEC 62148-15:2014)**

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

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| 33.180.20 | Povezovalne naprave za optična vlakna | Fibre optic interconnecting devices |
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EUROPEAN STANDARD

EN 62148-15

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2014

ICS 33.180.20

Supersedes EN 62148-15:2010

English Version

Fibre optic active components and devices - Package and
interface standards - Part 15: Discrete vertical cavity surface
emitting laser packages
(IEC 62148-15:2014)

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
(CEI 62148-15:2014)

Aktive Lichtwellenleiterbauelemente und -geräte - Gehäuse-
und Schnittstellennormen - Teil 15: Einzelgehäuse für
oberflächenemittierende Laser mit vertikalem Resonator
(IEC 62148-15:2014)

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Foreword

The text of document 86C/1131/CDV, future edition 2 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 62148-15:2014.

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) 2015-03-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-06-27

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

Endorsement notice

The text of the International Standard IEC 62148-15:2014 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:

| <u>SIST EN 62148-15:2014</u> | | |
|------------------------------|------|--------------------------------|
| IEC 60130 | NOTE | Harmonized in EN 60130 Series. |
| IEC 60191 | NOTE | Harmonized in EN 60191 Series. |
| IEC 60603 | NOTE | Harmonized in EN 60603 Series. |
| IEC 60794 | NOTE | Harmonized in EN 60794 Series. |
| IEC 60825 | NOTE | Harmonized in EN 60825 Series. |
| IEC 61076 | NOTE | Harmonized in EN 61076 Series. |
| IEC 61280 | NOTE | Harmonized in EN 61280 Series. |
| IEC 61281-1 | NOTE | Harmonized as EN 61281-1. |
| IEC 61754 | NOTE | Harmonized in EN 61754 Series. |
| IEC 62007-1 | NOTE | Harmonized as EN 62007-1. |
| IEC 62007-2 | NOTE | Harmonized as EN 62007-2. |
| 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, 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 1 When 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.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|----------------------------------|-------------|--|--------------|-------------|
| IEC 60793-2 | Series | Optical fibres - Part 2: Product specifications - General | EN 60793-2 | Series |
| IEC 60874 | Series | Fibre optic interconnecting devices and passive components - Connectors for optical fibres and cables | EN 60874 | Series |
| IEC 61754-4-1 | - | Fibre optic connector interfaces - Part 4-1: Type SC connector family - Simplified receptacle SC-PC connector interfaces | EN 61754-4-1 | - |
| 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 62148-1 | - |
| ITU-T Recommendation G.652 | - | Characteristics of a single-mode optical fibre and cable | - | - |

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Edition 2.0 2014-05

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 à fibres optiques – Normes de boîtier et
d'interface –
Partie 15: Boîtiers individuels pour laser à cavité verticale émettant par
la surface**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
PACKAGE AND INTERFACE STANDARDS –**
Part 15: Discrete vertical cavity surface emitting laser packages**FOREWORD**

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International Standard IEC 62148-15 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 2009 and constitutes a technical revision.

The significant technical changes with respect to the previous edition are as follows:

- to include a type-A pin configuration in the 4-pin type VCSEL TO CAN packages;
- to introduce new package standards for high-speed (8 Gbps and 10 Gbps) VCSEL TOSA packages with LC and SC connectors;
- to suggest optional colour codes for various pin configurations; and
- to delete the requirement of the minimum dimension for the outer diameters of the TO CAN packages in order to accommodate recent mini-TO CAN packages.