



SLOVENSKI STANDARD

SIST EN 62148-17:2014

01-maj-2014

Aktivne komponente in naprave optičnih vlaken - Standardi za okrove in vmesnike - 17. del: Oddajniške in sprejemniške komponente z dvojnimi koaksialnimi radiofrekvenčnimi (RF) konektorji (IEC 62148-17:2013)

Fiber optic active components and devices - Package and interface standards - Part 17: Transmitter and receiver components with dual coaxial RF connectors

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ICS:

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62148-17

March 2014

ICS 33.180.99

English version

**Fiber optic active components and devices -
Package and interface standards -
Part 17: Transmitter and receiver components with dual coaxial RF
connectors
(IEC 62148-17:2013)**

Composants et dispositifs actifs à fibres
optiques – Normes de boîtiers et
d'interface – Partie 17: Composants
émetteurs et récepteurs munis de
connecteurs coaxiaux RF doubles
(CEI 62148-17:2013)

Aktive Lichtwellenleiterbauelemente und -
geräte – Gehäuse- und
Schnittstellennormen – Teil 17: Sende-
und Empfangsbauteile mit dualen HF-
Koaxialsteckverbindern
(IEC 62148-17:2013)

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CENELEC

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 86C/1165/FDIS, future edition 1 of IEC 62148-17, 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 62148-17:2014.

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) 2014-09-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-10-30

This standard is to be read in conjunction with EN 62148-1.

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 62148-17:2013 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 60191 (all parts)	NOTE	Harmonized as EN 60191 (all parts).
IEC 60825-1	NOTE	Harmonized as EN 60825-1.
IEC 60825-2	NOTE	Harmonized as EN 60825-2.
IEC 61281-1	NOTE	Harmonized as EN 61281-1.
IEC 62007-1	NOTE	Harmonized as EN 62007-1.
IEC 62007-2	NOTE	Harmonized as EN 62007-2.
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 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 Guide 107		Electromagnetic compatibility - Guide to the drafting of electromagnetic compatibility publications	-	-
IEC 60793-2-50		Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	
IEC 60874-1		Fibre optic interconnecting devices and passive components - Connectors for optical fibres and cables - Part 1: Generic specification	EN 60874-1	
IEC 62148-1		Fibre optic active components and devices - Package and interface standards - Part 1: General and guidance	EN 62148-1	

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Fibre optic active components and devices – Package and interface standards –
Part 17: Transmitter and receiver components with dual coaxial RF connectors**

**Composants et dispositifs actifs à fibres optiques – Normes de boîtiers et
d'interface –
Partie 17: Composants émetteurs et récepteurs munis de connecteurs coaxiaux
RF doubles**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC ACTIVE COMPONENTS AND DEVICES –
PACKAGE AND INTERFACE STANDARDS –****Part 17: Transmitter and receiver components
with dual coaxial RF connectors**

FOREWORD

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International Standard IEC 62148-17 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This standard is to be read in conjunction with IEC 62148-1.

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

FDIS	Report on voting
86C/1165/FDIS	86C/1186/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 62148 series, published under the general title *Fibre optic active components and devices – Package and interface 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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

Part 17: Transmitter and receiver components with dual coaxial RF connectors

1 Scope

This part of IEC 62148 covers physical interface specification of transmitter and receiver components with dual coaxial RF connectors.

2 Normative references

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.

IEC 60793-2-50, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 60874-1, *Fibre optic interconnecting devices and passive components – Connectors for optical fibres and cables – Part 1: Generic specification*

IEC 62148-1, *Fibre optic active components and devices – Package and interface standards – Part 1: General and guidance*

IEC Guide 107, *Electromagnetic compatibility – Guide to the drafting of electromagnetic compatibility publications*

3 Abbreviations

For the purposes of this document, the following abbreviations apply.

EMwL	External modulator with laser diode
LD	Laser diode
PD	Photo diode
PCB	Printed circuit board
PIN PD	Photo diode with PIN structure
SMPM	Sub-miniature push-on miniature
TEC	Thermo-electric cooler
TIA	Trans-impedance amplifier

4 Electromagnetic compatibility (EMC) requirements

The components specified in this part of IEC 62148 shall comply with suitable requirements for electromagnetic compatibility (in terms of both emission and immunity), depending on particular usage/environment in which they are intended to be installed or integrated.