Irish Standard
I.S. EN 62148-3:2011

Fibre optic active components and devices - Package and interface standards -- Part 3: SFF 20-pin transceivers (IEC 62148-3:2010 (EQV))

I.S. EN 62148-3:2011

Incorporating amendments/corrigenda issued since publication:

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD

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EN 62148-3

January 2011

ICS 33.180.20

Supersedes EN 62148-3:2003, EN 62148-8:2003, EN 62148-10:2003

English version

Fibre optic active components and devices - Package and interface standards - Part 3: SFF 20-pin transceivers

(IEC 62148-3:2010)

Composants et dispositifs actifs en fibres optiques -
Normes de boîtier et d'interface -
Partie 3: Emetteurs-récepteurs SFF à 20 broches
(CEI 62148-3:2010)

Aktive Lichtwellenleiterbauelemente und -geräte -
Gehäuse- und Schnittstellennormen -
Teil 3: SFF-Sende- und Empfangsmodule mit 20 Anschlüssen
(IEC 62148-3:2010)

This European Standard was approved by CENELEC on 2011-01-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, 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.

CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 62148-3:2011 E

Foreword

The text of document 86C/970/FDIS, future edition 2 of IEC 62148-3, 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 62148-3 on 2011-01-01.

This European Standard supersedes EN 62148-3:2003, EN 62148-8:2003 and EN 62148-10:2003.

The significant technical change with respect to EN 62148-3:2003 is that this edition includes 20-pin SFF MT-RJ/LC/MU devices.

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. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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)	2011-10-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-01-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62148-3:2010 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 60603-7 NOTE Harmonized as EN 60603-7.

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.

Publication	Year	Title	EN/HD	Year
IEC 61754-6	-	Fibre optic connector interfaces - Part 6: Type MU connector family	EN 61754-6	-
IEC 61754-18	-	Fibre optic connector interfaces - Part 18: Type MT-RJ connector family	EN 61754-18	-
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	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 3: SFF 20-pin transceivers

FOREWORD

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International Standard IEC 62148-3 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.

This second edition cancels and replaces the first edition, published in 2003, and constitutes a technical revision.

It also cancels and replaces the first edition of IEC 62148-8 and the first edition of IEC 62148-10.

The significant technical change with respect to the previous edition is that this edition includes 20-pin SFF MT-RJ/LC/MU devices.

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

FDIS	Report on voting
86C/970/FDIS	86C/976/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 can be found, under the general title *Fibre optic active components and devices – Package and interface standards*, 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.

INTRODUCTION

Fibre optic transceivers are used to convert electrical signals into optical signals and vice versa. This standard covers the physical interface for a 20-pin small form factor (SFF) transceiver. This transceiver is designed for use with the SFF MT-RJ/LC/MU duplex optical connectors and with through-hole printed circuit-board applications.