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Standards

Irish Standard  
I.S. EN 61202-1:2017

# Fibre optic interconnecting devices and passive components - Fibre optic isolators - Part 1: Generic specification

**I.S. EN 61202-1:2017**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 61202-1:2017 is the adopted Irish version of the European Document EN 61202-1:2017, Fibre optic interconnecting devices and passive components - Fibre optic isolators - Part 1: Generic specification

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EUROPEAN STANDARD

**EN 61202-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 33.180.20

Supersedes EN 61202-1:2009

English Version

**Fibre optic interconnecting devices and passive components -  
Fibre optic isolators - Part 1: Generic specification  
(IEC 61202-1:2016)**

Dispositifs d'interconnexion et composants passifs à fibres  
optiques - Isolateurs à fibres optiques -  
Partie 1: Spécification générique  
(IEC 61202-1:2016)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Lichtwellenleiter-Isolatoren -  
Teil 1: Fachgrundspezifikation  
(IEC 61202-1:2016)

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

**EN 61202-1:2017****European foreword**

The text of document 86B/3989A/CDV, future edition 4 of IEC 61202-1, prepared by SC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61202-1:2017.

The following dates are fixed:

- latest date by which the document has to be (dop) 2017-10-12  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2018-01-12  
standards conflicting with the  
document have to be withdrawn

This document supersedes EN 61202-1:2009.

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**

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068 Series	NOTE	Harmonized as EN 60068 Series.
IEC 60869-1	NOTE	Harmonized as EN 60869-1.
IEC 60874-1	NOTE	Harmonized as EN 60874-1.
IEC 61073-1	NOTE	Harmonized as EN 61073-1.
IEC 61753 Series	NOTE	Harmonized as EN 61753 Series.
IEC 61754 Series	NOTE	Harmonized as EN 61754 Series.
IEC 62005 Series	NOTE	Harmonized as EN 62005 Series.

## 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](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60027	Series	Letter symbols to be used in electrical technology	EN 60027	Series
IEC 60050-731	-	International Electrotechnical Vocabulary - Chapter 731: Optical fibre communication	-	-
IEC 60617-DB	-	Graphical symbols for diagrams	-	-
IEC 60695	Series	Fire hazard testing	EN 60695-10	Series
IEC 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 61300	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	Series
IEC/TS 62627-09	-	Fibre optic interconnecting devices and passive components - Vocabulary for passive optical devices	-	-
ISO 129-1	-	Technical drawings - Indication of dimensions and tolerances - Part 1: General principles	-	-
ISO 286-1	-	Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes - Part 1: Basis of tolerances, deviations and fits	EN ISO 286-1	-
ISO 1101	-	Geometrical product specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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**IEC 61202-1**

Edition 4.0 2016-12

# **INTERNATIONAL STANDARD**



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**Fibre optic interconnecting devices and passive components – Fibre optic  
isolators –  
Part 1: Generic specification**



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**IEC 61202-1**

Edition 4.0 2016-12

# INTERNATIONAL STANDARD



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**Fibre optic interconnecting devices and passive components – Fibre optic  
isolators –  
Part 1: Generic specification**

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ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC ISOLATORS –**

#### **Part 1: Generic specification**

#### **FOREWORD**

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International Standard IEC 61202-1 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This fourth edition cancels and replaces the third edition published in 2009. It constitutes a technical revision.

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

- a) the terms and definitions were reconsidered;
- b) quality assessment level was deleted from classification;
- c) the clause numbers of Annexes A and B have been rearranged.

The text of this International Standard is based on the following documents:

CDV	Report on voting
86B/3989A/CDV	86B/4033RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61202 series, published under the general title *Fibre optic interconnecting devices and passive components – Fibre optic isolators*, can be found on the IEC website.

A bilingual version of this publication may be issued at a later date.

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# **FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC ISOLATORS –**

## **Part 1: Generic specification**

### **1 Scope**

This part of IEC 61202 applies to isolators used in the field of fibre optics, all exhibiting the following features:

- they are non-reciprocal optical devices, in which each port is either an optical fibre or fibre optic connector;
- they are passive devices containing no opto-electronic or other transducing elements;
- they have two optical ports for directionally transmitting optical power.

### **2 Normative references**

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IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60050-731, *International Electrotechnical Vocabulary – Chapter 731: Optical fibre communication*

IEC 60617 (all parts), *Graphical symbols for diagrams* (available at <http://std.iec.ch/iec60617>)

IEC 60695 (all parts), *Fire hazard testing*

IEC 60825-1, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 61300 (all parts), *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures*

IEC TS 62627-09, *Fibre optic interconnecting devices and passive components – Vocabulary for passive optical devices*

ISO 129-1, *Technical drawings – Indication of dimensions and tolerances – Part 1: General principles*

ISO 286-1, *Geometrical product specification (GPS) – ISO code system for tolerances on linear sizes – Part 1: Bases of tolerances, deviations and fits*

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