



# SLOVENSKI STANDARD

## SIST EN 60875-1:2010

01-september-2010

Nadomešča:  
SIST EN 60875-1:2002

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### Optični spojni elementi in pasivne komponente - Valvnodolžinsko neselektivni optični sklopniki - 1. del: Rodovna specifikacija (IEC 60875-1:2010)

Fibre optic interconnecting devices and passive components - Non-wavelength-selective fibre optic branching devices - Part 1: Generic specification (IEC 60875-1:2010)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - wellenlängenunabhängige Lichtwellenleiter-Verzweiger - Teil 1: Fachgrundspezifikation (IEC 60875-1:2010)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Dispositifs de couplage pour fibres optiques ne dépendant pas de la longueur d'onde - Partie 1: Spécification générique (CEI 60875-1:2010)

**Ta slovenski standard je istoveten z: EN 60875-1:2010**

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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 60875-1**

July 2010

ICS 33.180.20

Supersedes EN 60875-1:2001

English version

**Fibre optic interconnecting devices and passive components -  
Non-wavelength-selective fibre optic branching devices -  
Part 1: Generic specification  
(IEC 60875-1:2010)**

Dispositifs d'interconnexion  
et composants passifs à fibres optiques -  
Dispositifs de couplage pour fibres  
optiques ne dépendant pas de la longueur  
d'onde -  
Partie 1: Spécification générique  
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Lichtwellenleiter - Verbindungselemente  
und passive Bauteile -  
wellenlängenunabhängige  
Lichtwellenleiter-Verzweiger -  
Teil 1: Fachgrundspezifikation  
(IEC 60875-1:2010)

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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.

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**CENELEC**

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

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

## Foreword

The text of document 86B/2986/FDIS, future edition 5 of IEC 60875-1, 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 was approved by CENELEC as EN 60875-1 on 2010-07-01.

This European Standard supersedes EN 60875-1:2001.

This EN 60875-1:2010 constitutes a technical revision. The changes with respect to EN 60875-1:2001 are to delete the clause of Quality assessment procedures and reconsider the constitution of this standard.

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) 2011-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-07-01

Annex ZA has been added by CENELEC.

## iTeh STANDARD PREVIEW (standards.iteh.ai) Endorsement notice

The text of the International Standard IEC 60875-1:2010 was approved by CENELEC as a European Standard without any modification. <http://standards.iteh.ai/catalog/standards/sist/750ca21f-0ecb-4591-b261-f185602b6aab/sist-en-60875-1-2010>

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

IEC 60068 series	NOTE	Harmonized in EN 60068 series (not modified).
IEC 60874 series	NOTE	Harmonized in EN 60874 series (not modified).
IEC 60869-1	NOTE	Harmonized as EN 60869-1.
IEC 60974 series	NOTE	Harmonized in EN 60974 series (partially modified).
IEC 61300-1	NOTE	Harmonized as EN 61300-1.
IEC 61300-2 series	NOTE	Harmonized in EN 61300-2 series (not modified).
IEC 61300-3 series	NOTE	Harmonized in EN 61300-3 series (not modified).
IEC 61753	NOTE	Harmonized as EN 61753.
IEC 61754-4	NOTE	Harmonized as EN 61754-4.
IEC 61754-13	NOTE	Harmonized as EN 61754-13.
IEC 61754-15	NOTE	Harmonized as EN 61754-15.
IEC 62005 series	NOTE	Harmonized in EN 62005 series (not modified).

## 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.

<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 (IEV) - Chapter 731: Optical fibre communication	-	-
IEC 60617-SN	-	Graphical symbols for diagrams	-	-
IEC 60695-11-5	-	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	-
IEC 60825	Series	Safety of laser products	EN 60825	Series
IEC 61300	Series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	Series
IEC/TR 61930	-	Fibre optic graphical symbology	-	-
IEC Guide 102	-	Electronic components - Specification structures for quality assessment (Qualification approval and capability approval)	-	-
IECQ 01	-	IEC Quality Assessment System for Electronic Components (IECQ) - Basic Rules	-	-
IECQ 001002-3	-	IEC Quality Assessment System for Electronic Components (IECQ) - Rules of Procedure - Part 3: Approval procedures	-	-
ISO 129-1	-	Technical drawings - Indication of dimensions - and tolerances - Part 1: General principles	-	-
ISO 286-1	-	ISO system of limits and fits - Part 1: Bases 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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Edition 5.0 2010-04

# INTERNATIONAL STANDARD



**Fibre optic interconnecting devices and passive components – Non-wavelength-selective fibre optic branching devices – Part 1: Generic specification**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING  
DEVICES AND PASSIVE COMPONENTS –  
NON-WAVELENGTH-SELECTIVE FIBRE  
OPTIC BRANCHING DEVICES –****Part 1: Generic specification**

## FOREWORD

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International Standard IEC 60875-1 has been prepared by subcommittee SC86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This fifth edition cancels and replaces the fourth edition published in 2000. It constitutes a technical revision. The changes with respect to the previous edition are to delete the clause of Quality assessment procedures and reconsider the constitution of this standard.

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

FDIS	Report on voting
86B/2986/FDIS	86B/3022/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.

The list of all parts of IEC 60875 series, published under the general title, *Fibre optic interconnecting and passive components – Non-wavelength-selective fibre optic branching devices* 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.

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

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# FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – NON-WAVELENGTH-SELECTIVE FIBRE OPTIC BRANCHING DEVICES –

## Part 1: Generic specification

### 1 Scope

This part of IEC 60875 applies to non-wavelength-selective fibre optic branching devices, all exhibiting the following features:

- they are passive, in that they contain no optoelectronic or other transducing elements;
- they have three or more ports for the entry and/or exit of optical power, and share optical power among these ports in a predetermined fashion;
- the ports are optical fibres, or optical fibre connectors.

This standard establishes uniform requirements for the optical, mechanical and environmental properties.

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### 2 Normative references (standards.iteh.ai)

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.

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

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

IEC 60617-SN, *Graphical symbols for diagrams*

IEC 60695-11-5, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

IEC 60825 (all parts), *Safety of laser products*

IEC 61300 (all parts), *Fibre optic interconnecting devices and passive components*

IEC 61930, *Fibre optic graphic symbology*

IEC Guide 102, *Electronic components – Specification structures for quality assessment (Qualification approval and capability approval)*

IECQ 01, *IEC Quality Assessment System for Electronic Components (IECQ Scheme) – Basic Rules*

IECQ 001002-3, *IEC Quality Assessment System for Electronic Components (IECQ) – Rules of Procedure – Part 3: Approval procedures*