



NSAI
Standards

Irish Standard
I.S. EN 61058-2-5:2011

Switches for appliances -- Part 2-5: Particular requirements for change- over selectors (IEC 61058-2-5:2010 (EQV))

I.S. EN 61058-2-5:2011

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 61058-2-5

March 2011

ICS 29.120.40

Supersedes EN 61058-2-5:1994 + A11:2002

English version

**Switches for appliances -
Part 2-5: Particular requirements for change-over selectors
(IEC 61058-2-5:2010)**

Interrupteurs pour appareils -
Partie 2-5: Règles particulières pour les
sélecteurs
(CEI 61058-2-5:2010)

Geräteschalter -
Teil 2-5: Besondere Anforderungen an
Wahlschalter
(IEC 61058-2-5:2010)

This European Standard was approved by CENELEC on 2011-01-03. 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

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Foreword

The text of document 23J/327/CDV, future edition 2 of IEC 61058-2-5, prepared by SC 23J, Switches for appliances, of IEC TC 23, Electrical accessories, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61058-2-5 on 2011-01-03.

This European Standard supersedes EN 61058-2-5:1994 + A11:2002.

The main changes from EN 61058-2-5:1994 + A11:2002 are as follows:

- scope;
- abnormal operation and fault conditions for electronic switches;
- components for electronic switches;
- EMC requirements.

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) | 2011-10-03 |
| – latest date by which the national standards conflicting
with the EN have to be withdrawn | (dow) | 2014-01-03 |

This standard is to be read in conjunction with the EN 61058-1:2002, *Switches for appliances – Part 1: General requirements*, and its amendment 2 (2008).

This Part 2-5 supplements or modifies the corresponding clauses in EN 61058-1, so as to convert that publication into the EN standard: *Particular requirements for change-over selectors*.

When a particular subclause of Part 1 is not mentioned in this Part 2-5, that subclause applies as far as reasonable. Where this standard states “addition”, “modification” or “replacement”, the relevant text of Part 1 is to be adapted accordingly.

In this standard:

1) the following print types are used:

- requirements proper: in roman type;
- *test specifications: in italic type*;
- notes/explanatory matters: in small roman type.

2) subclauses, notes, figures and tables which are additional to those in Part 1 are numbered starting from 101. Annexes which are additional to those in Part 1 are lettered AA, BB, etc.

Endorsement notice

The text of the International Standard IEC 61058-2-5:2010 was approved by CENELEC as a European Standard without any modification.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SWITCHES FOR APPLIANCES –

Part 2-5: Particular requirements for change-over selectors

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61058-2-5 has been prepared by subcommittee 23J: Switches for appliances, of IEC technical committee 23: Electrical accessories.

This second edition cancels and replaces the first edition published in 1994 and constitutes a technical revision. The main changes from the first edition are as follows:

- scope;
- abnormal operation and fault conditions for electronic switches;
- components for electronic switches;
- EMC requirements.

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

CDV	Report on voting
23J/327/CDV	23J/338/RVC

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.

This standard is to be read in conjunction with the IEC 61058-1:2000, *Switches for appliances – Part 1: General requirements*, and its amendments 1 (2001) and 2 (2007).

This Part 2-5 supplements or modifies the corresponding clauses in IEC 61058-1, so as to convert that publication into the IEC standard: *Particular requirements for change-over selectors*.

When a particular subclause of Part 1 is not mentioned in this Part 2-5, that subclause applies as far as reasonable. Where this standard states “addition”, “modification” or “replacement”, the relevant text of Part 1 is to be adapted accordingly.

In this standard:

1) the following print types are used:

- requirements proper: in roman type;
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2) subclauses, notes, figures and tables which are additional to those in Part 1 are numbered starting from 101. Annexes which are additional to those in Part 1 are lettered AA, BB, etc.

A list of all the parts in the IEC 61058 series, under the general title *Switches for appliances*, 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.

SWITCHES FOR APPLIANCES –

Part 2-5: Particular requirements for change-over selectors

1 Scope

Replacement:

1.1 This International Standard applies to change-over selectors (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 480 V and a rated current not exceeding 63 A.

These change-over selectors are intended to be operated by a person, via an actuating member or by actuating a sensing unit. The actuating member or sensing unit can be integral with or arranged separately, either physically or electrically, from the switch and may involve transmission of a signal, for example electrical, optical, acoustic or thermal, between the actuating member or sensing unit and the switch.

Change-over selectors which incorporate additional control functions governed by the switch function are within the scope of this standard.

This standard also covers the indirect actuation of the switch when the operation of the actuating member or sensing unit is provided by a remote control or a part of an appliance or equipment such as a door.

NOTE 1 Electronic change-over selectors may be combined with mechanical change-over selectors giving full disconnection or micro-disconnection.

NOTE 2 Electronic change-over selectors without a mechanical switch in the supply circuit provide only electronic disconnection. Therefore, the circuit on the load side is always considered to be live.

NOTE 3 For change-over selectors used in tropical climates, additional requirements may be necessary.

NOTE 4 Attention is drawn to the fact that the standards for appliances may contain additional or alternative requirements for change-over selectors.

NOTE 5 Throughout this standard, the word "appliance" means "appliance or equipment".

1.2 This standard applies to change-over selectors intended to be incorporated in, on or with an appliance.

1.3 This standard also applies to change-over selectors incorporating electronic devices.

2 Normative references

This clause of Part 1 is applicable.

3 Definitions

This clause of Part 1 is applicable except as follows:

Addition:

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