



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 60947-5-4:2003**

ICS 29.130.20

**LOW-VOLTAGE SWITCHGEAR AND  
CONTROLGEAR  
PART 5-4: CONTROL CIRCUIT DEVICES AND  
SWITCHING ELEMENTS -  
METHOD OF ASSESSING THE  
PERFORMANCE OF LOW-ENERGY  
CONTACTS -  
SPECIAL TESTS  
(IEC 60947-5-4:2003)**

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EUROPEAN STANDARD

**EN 60947-5-4**

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2003

ICS 29.130.20

Supersedes EN 60947-5-4:1997

English version

**Low-voltage switchgear and controlgear**  
**Part 5-4: Control circuit devices and switching elements -**  
**Method of assessing the performance of low-energy contacts -**  
**Special tests**  
**(IEC 60947-5-4:2002)**

Appareillage à basse tension  
Partie 5-4: Appareils et éléments  
de commutation pour circuits  
de commande -  
Méthode d'évaluation des performances  
des contacts à basse énergie -  
Essais spéciaux  
(CEI 60947-5-4:2002)

Niederspannungsschaltgeräte  
Teil 5-4: Steuergeräte und Schaltelemente -  
Verfahren zur Abschätzung  
der Leistungsfähigkeit  
von Schwachstromkontakten -  
Besondere Prüfungen  
(IEC 60947-5-4:2002)

This European Standard was approved by CENELEC on 2003-12-01. 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.

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**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of the International Standard IEC 60947-5-4:2002, prepared by SC 17B, Low-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60947-5-4 on 2003-12-01.

This European Standard supersedes EN 60947-5-4:1997.

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) 2004-12-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2006-12-01

Annexes designated "normative" are part of the body of the standard.

In this standard, Annexes A and ZA are normative.

Annex ZA has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60947-5-4:2002 was approved by CENELEC as a European Standard without any modification.

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## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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 60068-1 + corr. October + A1	1988 1988 1992	Environmental testing Part 1: General and guidance	EN 60068-1	1994
IEC 60068-2	Series	Environmental testing Part 2: Tests	EN 60068-2 HD 323.2	Series Series
IEC 60605-6	1997	Equipment reliability testing Part 6: Tests for the validity of the constant failure rate or constant failure intensity assumptions	-	-
IEC 60947-1 (mod) A1 A2	1999  2000 2001	Low-voltage switchgear and controlgear Part 1: General rules	EN 60947-1 + corr. October A1 A2	1999 1999 2000 2001
IEC 60947-5-1  A1 A2	1997  1999 1999	Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	EN 60947-5-1 + A12  A1 A2	1997 1999  1999 2000
IEC 61131-2	1992	Programmable controllers Part 2: Equipment requirements and tests	EN 61131-2	1994 <sup>1)</sup>

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<sup>1)</sup> EN 61131-2:1994 is superseded by EN 61131-2:2003 + corrigendum August 2003, which is based on IEC 61131-2:2003.

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**Appareillage à basse tension –**

**Partie 5-4:**

**Appareils et éléments de commutation  
pour circuits de commande –  
Méthode d'évaluation des performances  
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