



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60947-5-6:2000

ICS 29.130.20

**LOW-VOLTAGE SWITCHGEAR AND  
CONTROLGEAR PART 5-6: CONTROL  
CIRCUIT DEVICES AND SWITCHING  
ELEMENTS DC INTERFACE FOR PROXIMITY  
SENSORS AND SWITCHING AMPLIFIERS  
(NAMUR) (IEC 60947-5-6:1999)**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60947-5-6**

January 2000

ICS 29 130.20

Supersedes EN 50227:1997

English version

**Low-voltage switchgear and controlgear**  
**Part 5-6: Control circuit devices and switching elements**  
**DC interface for proximity sensors and switching amplifiers (NAMUR)**  
**(IEC 60947-5-6:1999)**

Appareillage à basse tension  
Partie 5-6: Appareils et éléments  
de commutation pour circuits de  
commande  
Interface à courant continu pour  
capteurs de proximité et amplificateurs  
de commutation (NAMUR)  
(CEI 60947-5-6:1999)

Niederspannungsschaltgeräte  
Teil 5-6: Steuergeräte und  
Schaltelemente  
Gleichstrom-Schnittstelle für  
Näherungssensoren und  
Schaltverstärker (NAMUR)  
(IEC 60947-5-6:1999)

This European Standard was approved by CENELEC on 2000-01-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

**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 document 17B/1011/FDIS, future edition 1 of IEC 60947-5-6, prepared by SC 17B, Low-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60947-5-6 on 2000-01-01.

This European Standard supersedes EN 50227:1997.

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) 2000-10-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2003-01-01

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

In this standard, annex ZA is normative.

Annex ZA has been added by CENELEC.

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### **Endorsement notice**

The text of the International Standard IEC 60947-5-6:1999 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 1. When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies

NOTE 2: Where a standard cited below belongs to the EN 50000 series, this European Standard applies instead of the relevant International Standard.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60079-11	1999	Electrical apparatus for explosive gas atmospheres Part 11: Intrinsic safety "i" 1)	EN 50020	1994
IEC 60947-1 (mod)	1999	Low-voltage switchgear and controlgear Part 1: General rules	EN 60947-1 + corr. October	1999 1999
IEC 60947-5-2 (mod)	1997	Part 5-2: Control circuit devices and switching elements - Proximity switches	EN 60947-5-2	1998

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1) The title of EN 50020 is: Electrical apparatus for potentially explosive atmospheres - Intrinsic safety 'i'.



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