



**NSAI**  
Standards

Irish Standard  
I.S. HD 60364-7-715:2005

# Electrical installations of buildings -- Part 7-715: Requirements for special installations or locations - Extra-low- voltage lighting installations (IEC 60364 -7-715:1999 (MOD))

## I.S. HD 60364-7-715:2005

*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.

**S.R. xxx:** Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

**SWIFT xxx:** A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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HARMONIZATION DOCUMENT

**HD 60364-7-715**

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

July 2005

ICS 29.140.50; 91.140.50

English version

**Electrical installations of buildings**  
**Part 7-715: Requirements for special installations or locations –**  
**Extra-low-voltage lighting installations**  
(IEC 60364-7-715:1999, modified)

Installations électriques des bâtiments  
Partie 7-715: Règles pour les installations  
et emplacements spéciaux –  
Installations d'éclairage à très basse  
tension  
(CEI 60364-7-715:1999, modifiée)

Elektrische Anlagen von Gebäuden  
Teil 7-715: Anforderungen für  
Betriebsstätten, Räume und Anlagen  
besonderer Art –  
Kleinspannungs-Beleuchtungsanlagen  
(IEC 60364-7-715:1999, modifiziert)

This Harmonization Document was approved by CENELEC on 2005-03-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, 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 the International Standard IEC 60364-7-715:1999, prepared by IEC TC 64, Electrical installations and protection against electric shock, together with the common modifications prepared by SC 64B, Protection against thermal effects, of Technical Committee CENELEC TC 64, Electrical installations and protection against electric shock, was submitted to the formal vote and was approved by CENELEC as HD 60364-7-715 on 2005-03-01.

The following dates were fixed:

- |  |       |            |
|--|-------|------------|
| – latest date by which the existence of the HD<br>has to be announced at national level  | (doa) | 2005-09-01 |
| – latest date by which the HD has to be implemented<br>at national level by publication of a harmonized<br>national standard or by endorsement | (dop) | 2006-03-01 |
| – latest date by which the national standards conflicting<br>with the HD have to be withdrawn  | (dow) | 2008-03-01 |

In this standard, the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

Clauses, subclauses, annexes and notes which are additional to those of IEC 60364-7-715 are prefixed "Z".

Annex ZA has been added by CENELEC.

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## **Introduction**

The requirements of this part of HD 60364 modify or replace certain of the general requirements of HD 60364.

The clause numbering of Part 7-715 follows the pattern and corresponding references of HD 60364.

The numbers following the particular number of Part 7-715 are those of the corresponding parts or clauses of HD 60364.

The absence of reference to a part or a clause means that the general requirements of HD 60364 are applicable.

Numbering in parenthesis corresponds to the numbering of the “non restructured” IEC 60364 (HD 384) dated before 2002.

### **715 Extra-low-voltage lighting installations**

#### **715.1 Scope**

The particular requirements of this part apply to extra-low-voltage lighting installations supplied from sources with a maximum rated voltage of 50 V a.c. or 120 V d.c.

NOTE 1 For the definition of an extra-low-voltage lighting system, see EN 60598-1.

NOTE 2 AC voltages are given as r.m.s. values.

NOTE Z1 The maximum d.c. value for SELV luminaires is under consideration.

#### **715.2 Normative references**

See Annex ZA.

#### **715.411 Protection against both direct and indirect contact**

**715.411.1** For extra-low-voltage lighting installations only SELV shall be applied. Where bare conductors are used (see 715.521.7), the maximum voltage shall be 25 V a.c. or 60 V d.c. according to 411.1.4.3 of HD 384.4.41.

**715.411.1.2** Safety isolating transformers shall conform with EN 61558-2-6.

Parallel operation of transformers in the secondary circuit is allowed only if they are also paralleled in the primary circuit and the transformers have identical electrical characteristics.

Safety isolating converters shall conform to EN 61347-2-2, Annex I.

Parallel operation of converters is not accepted.

### **715.43 Protection against overcurrent**

The SELV circuit shall be protected against overcurrent either by a common protective device or a protective device for each SELV circuit, in accordance with the requirements of HD 384.4.43.

NOTE 1 When selecting the protective device for the primary circuit, account should be taken of the magnetising current of the transformer.

Self-resetting overcurrent protective devices shall only be required for transformers up to 50 VA.

NOTE 2 Overcurrent protection may be provided by a protective device complying with the requirements of 715.482.5.2.

### **715.46 (715.536) Isolation and switching**

**715.462.5** Where transformers are operated in parallel the primary circuit shall be permanently connected to a common isolating device.

### **715.482 (715.422) Protection against fire**

#### **715.482.2 (715.422.3) Nature of processed or stored materials**

**715.482.2.3 (422.3.3)** The manufacturer's installation instructions shall be followed, including those relating to mounting on flammable or non-flammable surfaces. See also HD 60364-5-559.

NOTE Z1 Luminaires suitable for direct mounting on normally flammable surfaces are marked with the symbol



#### **715.482.4 (422.5) Fire risk of transformers/converters**

**715.482.4.1 (422.5.1)** Transformers shall be either:

- protected on the primary side by the protective device required in 715.482.5.2; or
- short-circuit proof transformers (both inherently and non-inherently proof), see Annex A for the symbol.

**715.482.4.2** Electronic converters shall comply with EN 61347-2-2, and with the requirements of EN 60598-2-23.

NOTE It is recommended that converters marked with the symbol



are used. See Annex A for the symbol.

#### **715.482.5 Fire risk by short circuit**

**715.482.5.1** If both circuit conductors are uninsulated, they shall be either:

- provided with a special protective device complying with the requirements of 715.482.5.2; or
- systems complying with EN 60598-2-23.

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