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HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) PART 2-3: SYSTEM OVERVIEW - GENERAL FUNCTIONAL SAFETY REQUIREMENTS FOR PRODUCTS INTENDED TO BE INTEGRATED IN HBES

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Home and Building Electronic Systems (HBES) Part 2-3: System overview - General functional safety requirements for products intended to be integrated in HBES

Systèmes électroniques pour les foyers domestiques et les bâtiments (HBES) Partie 2-3: Vue d'ensemble du système - Exigences générales de sécurité fonctionnelle pour les produits destinés à être intégrés dans les systèmes HBES

Elektrische Systemtechnik für Heim und Gebäude (ESHG) Teil 2-3: Systemübersicht - Anforderungen an die funktionale Sicherheit für Produkte, die für den Einbau in ESHG vorgesehen sind

This European Standard was approved by CENELEC on 2004-09-01. 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

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Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 205, Home and Building Electronic Systems (HBES), joined by the co-operating partner Konnex Association.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50090-2-3 on 2004-09-01.

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)	2005-09-01
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2007-09-01

This European Standard shall be used as family standard; it is also addressed to Product Committees or, where no suitable product standards exist, to product manufacturer.

EN 50090-2-3 is part of the EN 50090 series of European Standards, which will comprise the following parts:

Part 1: Standardisation structure
Part 2: System overview
Part 3: Aspects of application
Part 4: Media independent layers
Part 5: Media and media dependent layers
Part 6: Interfaces
Part 7: System management
Part 8: Conformity
Part 9: Installation requirements
TRs: CENELEC TC 205 Technical Reports

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Introduction

HBES products integrated in a HBES should be safe for the use in intended applications.

This European Standard specifies the general functional safety requirements for HBES following the principles of the basic standard for functional safety EN 61508 and Technical Report R205-012 in particular.

This European Standard identifies functional safety issues related to products and their installation. The requirements are based on a risk analysis in accordance with EN 61508.

The intention of this European Standard is to allocate, as far as possible, all safety requirements for HBES products in there life cycle.

This European Standard only addresses HBES products.
This European Standard is addressed to committees that develop or modify HBES product/system standards or, where not suitable HBES product standards addressing functional safety exist, to product manufacturer.

HBES and HBES products in this European Standard are for non-safety related applications. Additional requirements for safety related HBES will be described, according to EN 61508, in Part 2-4 of the EN 50090-series (under consideration).

1 Scope

This European Standard sets the requirements for functional safety for HBES products and systems, a multi-application bus system where the functions are decentralised, distributed and linked through a common communication process. The requirements may also apply to the distributed functions of any equipment connected in a home or building control system if no specific functional safety standard exist for this equipment or system.

The functional safety requirements of this European Standard apply together with the relevant product standard for the device if any.

This European Standard is used as a product family standard. It is not intended to be used as a stand-alone standard.

This European Standard does not provide functional safety requirements for safety-related systems.

2 Normative references

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.

EN 50090-2-1	*Home and Building Electronic Systems (HBES) – Part 2-1: System overview - Architecture*
EN 50090-2-2	*Home and Building Electronic Systems (HBES) – Part 2-2: System overview - General technical requirements*
EN 61508-4:2001	*Functional safety of electrical/electronic/programmable electronic safety-related systems – Part 4: Definitions and abbreviations* (IEC 61508-4:1998 + corrigendum 1999)