



NSAI
Standards

Irish Standard
I.S. EN 60839-11-2:2015&AC:2015

Alarm and electronic security systems - Part 11-2: Electronic access control systems - Application guidelines

I.S. EN 60839-11-2:2015&AC:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 60839-11-2:2015/AC:2015

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This document is based on:

EN 60839-11-2:2015

Published:

2015-04-17

*This document was published
under the authority of the NSAI
and comes into effect on:*

2015-12-08

ICS number:

NOTE: If blank see CEN/CENELEC cover page

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National Foreword

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Corrigendum to EN 60839-11-2:2015

English version

Title page

Add the following superseding note:

"supersedes EN 50133-7:1999".

European foreword:

Add the following paragraph:

"This document supersedes EN 50133-7:1999."

November 2015

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60839-11-2

April 2015

ICS 13.320

English Version

**Alarm and electronic security systems - Part 11-2: Electronic
access control systems - Application guidelines
(IEC 60839-11-2:2014)**

Systèmes d'alarme et de sécurité électroniques - Partie 11-
2: Systèmes de contrôle d'accès électronique - Lignes
directrices d'application
(IEC 60839-11-2:2014)

Alarmanlagen - Teil 11-2: Elektronische
Zutrittskontrollanlagen - Anwendungsregeln
(IEC 60839-11-2:2014)

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Foreword

This document (EN 60839-11-2:2015) consists of the text of IEC 60839-11-2:2014 prepared by IEC/TC 79 "Alarm and electronic security systems".

The following dates are fixed:

- latest date by which the document has to be implemented (dop) 2016-04-13
at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-04-13

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IEC 60950-1	NOTE	Harmonized as EN 60950-1.
IEC 61000-6-1	NOTE	Harmonized as EN 61000-6-1.
IEC 61000-6-3	NOTE	Harmonized as EN 61000-6-3

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here:
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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60839-11-1	2013	Alarm and electronic security systems - Part 11-1: Electronic access control systems - System and components requirements	EN 60839-11-1	2013
-	-		+AC	2013
-	-		+AC	2015

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IEC 60839-11-2

Edition 1.0 2014-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Alarm and electronic security systems –
Part 11-2: Electronic access control systems – Application guidelines**

**Systèmes d'alarme et de sécurité électroniques –
Partie 11-2: Systèmes de contrôle d'accès électronique – Lignes directrices
d'application**



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IEC 60839-11-2

Edition 1.0 2014-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Alarm and electronic security systems –
Part 11-2: Electronic access control systems – Application guidelines**

**Systèmes d'alarme et de sécurité électroniques –
Partie 11-2: Systèmes de contrôle d'accès électronique – Lignes directrices
d'application**

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PRICE CODE
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ICS 13.320

ISBN 978-2-8322-1774-0

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CONTENTS

FOREWORD	4
INTRODUCTION	6
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Abbreviations	8
5 System architecture	8
6 Environmental and EMC considerations	9
6.1 General	9
6.2 Environmental Class I – Equipment situated in indoor but restricted to residential/office environment	9
6.3 Environmental Class II – Equipment situated indoor in general	9
6.4 Environmental Class III – Equipment situated outdoor – Sheltered or indoor extreme conditions	10
6.5 Environmental Class IV – Equipment situated outdoor – General	10
6.6 EMC	10
7 System planning	10
7.1 General	10
7.2 Risk assessment and security grading	11
7.3 System design	12
7.3.1 System and components selection	12
7.3.2 Operational considerations	14
8 System installation	16
8.1 General	16
8.2 Installation planning	17
8.2.1 Equipment	17
8.2.2 Cabling	19
9 Commissioning and system handover	19
9.1 Commissioning	19
9.2 System handover	20
10 System operation and maintenance	20
10.1 System operation	20
10.2 System maintenance	21
11 Documentation	21
11.1 General	21
11.2 Documentation for planning	21
11.3 Documentation for commissioning/system handover	22
11.4 Documentation for maintenance	22
Annex A (normative) Allowed exceptions for installed systems	23
A.1 General	23
A.2 Claims of compliance	23
A.3 Allowed exceptions	23
Annex B (informative) Standby battery capacity calculations	27
Bibliography	29

Figure 1 – Typical arrangement of components and interfaces of an EACS	9
Figure 2 – Risk assessment chart	11
Figure 3 – Example of system grade selection	13
Figure 4 – Equipment location versus security grade of protected area	17
Table 1 – Security grading	12
Table 2 – Power supply requirements for installed EACS	18
Table A.1 – Allowed exceptions for access point interface requirements	24
Table A.2 – Allowed exceptions for indication and annunciation requirements	24
Table A.3 – Allowed exceptions for recognition requirements	25
Table A.4 – Duress signalling requirements	25
Table A.5 – Overriding requirements	25
Table A.6 – Communication requirements	25
Table A.7 – Allowed exceptions for system self-protection requirements	25
Table A.8 – Allowed exceptions for power supply requirements	26

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ALARM AND ELECTRONIC SECURITY SYSTEMS –

Part 11-2: Electronic access control systems – Application guidelines

FOREWORD

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International Standard IEC 60839-11-2 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

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

FDIS	Report on voting
79/476/FDIS	79/489/RVD

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.

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INTRODUCTION

This standard is part of the IEC 60839 series, written to include the following parts:

Part 11-1: Electronic access control systems – System and components requirements

Part 11-2: Electronic access control systems – Application guidelines

This part of IEC 60839 describes the general requirements for planning, installation, operation, maintenance and documentation for the application of electronic access control systems (EACS).

The performance of the EACS is determined by the security grades allocated to the access points. A risk assessment that identifies the risks and perceived threats should first be carried out in order to establish the appropriate security grades.

Four security grades are available based upon the knowledge and tools available to a person intent upon gaining unauthorised access and the type of application, taking into account specific organizational aspects and the value of the assets.

Separate guidance is provided for each activity along with recommendations for the documentation needed. A brief description of each section covering the activities is provided below:

System planning: this section is intended to assist the designer with the selection of an electronic access control system (EACS) that provides the control of access and security integrity commensurate with the value of the assets requiring protection and the associated risks. See Clause 7.

System design should minimise potential vulnerabilities that could be exploited to circumvent the access control measures. It is recommended that safeguards are incorporated to give early warning of attempts to circumvent the access control measures. See 7.3.

System installation: this section is intended to help those responsible for installing the EACS by identifying issues which should be considered prior to commencing the installation and during the installation of the system in order to ensure the EACS is correctly implemented as specified during system planning. See Clause 8.

Commissioning and system handover: this section provides guidance to ensure the level of performance required in the system planning is obtained and that the end user is provided with the necessary documentation, records and operating instructions during the handover of the EACS. See Clause 9.

System operation and maintenance: includes information regarding the responsibilities of the end user of the EACS to ensure the system is operated correctly and adequately maintained. It covers inspection, service and the use of remote diagnostics in order that the level of performance determined during the system planning stages can be maintained. See Clause 10.

ALARM AND ELECTRONIC SECURITY SYSTEMS –

Part 11-2: Electronic access control systems – Application guidelines

1 Scope

This part of IEC 60839 defines the minimum requirements and guidance for the installation and operation of electronic access control systems (EACS) and/or accessory equipment to meet different levels of protection.

This standard includes requirements for planning, installation, commissioning, maintenance and documentation for the application of EACS installed in and around buildings and areas. The equipment functions are defined in the IEC 60839-11-1.

When the EACS includes functions relating to hold-up or the detection of intruders, the requirements in standards relating to intrusion and hold-up are also applicable.

This standard provides application guidelines intended to assist those responsible for establishing an EACS to ascertain the appropriate design and planning of the EACS, both in terms of levels of protection and levels of performance necessary to provide the degree of access control and protection considered appropriate for each installation. This is achieved by scaling or classifying the features of electronic access control systems related to the security functionality (e.g. recognition, access point actuation, access point monitoring, duress signaling and system self-protection) in line with the known or perceived threat conditions.

This standard does not cover the methods and procedures for conducting a risk assessment.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60839-11-1:2013, *Alarm and electronic security systems – Part 11-1: Electronic access control systems – System and components requirements*

3 Terms and definitions

For the purposes of this document the terms and definitions given in IEC 60839-11-1, as well as the following, apply.

3.1

area zone

part of a protected area which has its own set of access levels

Note 1 to entry: It may have a different security grade than other area zones within the same protected area.

3.2

competent organization

organization possessing sufficient resources and staff with adequate expertise and training in the maintenance of EACS

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