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This standard includes the English version of the European Standard.

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Obsahuje: EN 60839-11-1:2013, IEC 60839-11-1:2013

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

Systèmes d'alarme et de sécurité
électroniques -
Partie 11-1: Systèmes de contrôle d'accès
électronique - Exigences système et
exigences concernant les composants
(CEI 60839-11-1:2013)

Alarmanlagen -
Teil 11-1: Elektronische
Zutrittskontrollanlagen - Anforderungen an
Anlagen und Geräte
(IEC 60839-11-1:2013)

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Foreword

The text of document 79/410/FDIS, future edition 1 of IEC 60839-11-1, prepared by IEC TC 79 "Alarm and electronic security systems" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60839-11-1:2013.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-03-11
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-06-11

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

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

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60529	-	Degrees of protection provided by enclosures - (IP Code)	-	-
IEC 62262	-	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	EN 62262	-
IEC 62599-1	-	Alarm systems - Part 1: Environmental test methods	-	-
IEC 62599-2	-	Alarm systems - Part 2: Electromagnetic compatibility - Immunity requirements for components of fire and security alarm systems	-	-
IEC 62642-1	-	Alarm systems - Intrusion and hold-up systems - Part 1: System requirements	-	-
IEC 62642-6	-	Alarm systems - Intrusion and hold-up systems - Part 2-6: Intrusion detectors - Opening contacts (magnetic)	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Systemes d'alarme et de sécurité électroniques –
Partie 11-1: Systemes de contrôle d'accès électronique – Exigences système et
exigences concernant les composants**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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

**Systèmes d'alarme et de sécurité électroniques –
Partie 11-1: Systèmes de contrôle d'accès électronique – Exigences système et
exigences concernant les composants**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ALARM AND ELECTRONIC SECURITY SYSTEMS –**Part 11-1: Electronic access control systems –
System and components requirements**

FOREWORD

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International Standard IEC 60839-11-1 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
79/410/FDIS	79/416/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.

A list of all parts in the IEC 60839 series, published under the general title *Alarm and electronic security systems*, can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

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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 functionalities of electronic access control systems (EACS) for use in security applications. The design, planning, installation, operation, and maintenance are part of the application guidelines in IEC 60839-11-2¹. The risk analysis is not part of this standard and the risk levels are for informational purposes only.

An electronic access control system consists of one or more components that when interconnected meet the functionality criteria stated in this standard.

This standard defines different security grades and the functionalities of the access control system associated with each of these grades. It includes also the minimum environmental and EMC compliance criteria as applicable for components of the electronic access control system in every grade.

When a part of an electronic access control system (e.g. access point interface) forms a part of an alarm system (intrusion, hold-up, VSS [Video Surveillance Systems], etc.) that part shall also fulfil the relevant requirements of the applicable IEC standards. Functions additional to the mandatory functions specified in this standard may be included in the electronic access control system providing they do not prevent the requirements of this standard from being met.

This International standard also applies to access control systems sharing means of recognition, detection, triggering, interconnection, control, communication, alert signalling and power supplies with other applications. The operation of an access control system should not be adversely influenced by other applications.

An electronic access control system may consist of any number of access points. This standard addresses the security grade classification for each access point.

Compliance of the individual component parts of the electronic access control system can be assessed to this standard provided all relevant requirements are applied.

The specific requirements for access point actuators, such as electric door openers, electronic locks, turnstiles and barriers are included in other standards.

¹ Under consideration.

ALARM AND ELECTRONIC SECURITY SYSTEMS –

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

1 Scope

This part of IEC 60839 specifies the minimum functionality, performance requirements and test methods for electronic access control systems and components used for physical access (entry and exit) in and around buildings and protected areas. It does not include requirements for access point actuators and sensors.

This standard is not intended to cover requirements for off premise transmission associated with intrusion or hold up alarm signals.

This standard applies to electronic access control systems and components intended to be used in security applications for the granting of access and includes requirements for logging, identification and control of information.

The standard comprises the following:

- A conceptual model and system architecture.
- Criteria covering:
 - classification based on performance functionalities and capabilities;
 - access point interface requirements;
 - indication and annunciation requirements (display, alert, logging);
 - duress signalling and overriding;
 - recognition requirements;
 - system self-protection requirements;
 - communication between the component parts of the electronic access control system and with other systems.
- Requirements for environmental conditions (indoor/outdoor use) and electromagnetic compatibility.
- Test methods.

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 60068-1, *Environmental testing – Part 1: General and guidance*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

IEC 62599-1, *Alarm systems – Part 1: Environmental test methods*

IEC 62599-2, *Alarm systems – Part 2: Electromagnetic compatibility –Immunity requirements for components of fire and security alarm systems*

IEC 62642-1, *Alarm systems – Intrusion and hold-up systems – Part 1: System requirements*

IEC 62642-6, *Alarm systems – Intrusion and hold-up systems – Part 6: Power supplies*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN