



**CSA E60730-2-12:19**  
(IEC 60730-2-12:2015, MOD)  
National Standard of Canada



**CSA E60730-2-12:19**  
**Automatic electrical controls — Part 2-12: Particular requirements for electrically operated door locks**  
(IEC 60730-2-12:2015, MOD)



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**CSA E60730-2-12:19**  
**Automatic electrical controls —**  
**Part 2-12: Particular requirements**  
**for electrically operated door locks**  
**(IEC 60730-2-12:2015, MOD)**

Prepared by  
International Electrotechnical Commission



Reviewed by



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# CSA E60730-2-12:19

## **Automatic electrical controls — Part 2-12: Particular requirements for electrically operated door locks**

### *(IEC 60730-2-12:2015, MOD)*

## **CSA Preface**

This is the second edition of CSA E60730-2-12, *Automatic electrical controls — Part 2-12: Particular requirements for electrically operated door locks*, which is an adoption, with Canadian deviations, of the identically titled IEC (International Electrotechnical Commission) Standard 60730-2-12 (third edition, 2015-04). It supersedes the previous edition published in 1994 as CAN/CSA E60730-2-12 (adopted IEC 730-2-12:1993). At the time of publication, IEC 60730-2-12:2015 is available from IEC in English only. CSA Group will publish the French version when it becomes available from IEC.

For brevity, this Standard will be referred to as “CSA E60730-2-12” throughout.

This Standard is intended to be used in conjunction with CAN/CSA-E60730-1:15, *Automatic electrical controls — Part 1: General requirements* (adopted IEC 60730-1:2013, with Canadian deviations).

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was reviewed for Canadian adoption by the CSA Technical Committee on International Standards, under the jurisdiction of the CSA Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee. This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant CSA committee interpretation has not already been published, CSA Group’s procedures for interpretation shall be followed to determine the intended safety principle.”

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- a) *Standard designation (number);*
- b) *relevant clause, table, and/or figure number;*
- c) *wording of the proposed change; and*
- d) *rationale for the change.*

# Canadian deviations

The following deviations are intended to meet Canadian product requirements and to align with the *Canadian Electrical Code, Part I*.

International Standard IEC 60730-2-12:2015 (third edition) forms the basis for CSA E60730-2-12, which contains the following deviations in addition to those shown in CAN/CSA-E60730-1:15.

[Replace all references to “IEC 60730-1” with “CAN/CSA-E60730-1”]

## 1 Scope and normative references

### 1.1 Scope

[Add the following paragraph]

This Standard applies to the safety of such equipment designed and constructed for installation and use in accordance with CSA C22.1, *Canadian Electrical Code, Part I*.

### 1.2 Normative references

[Add the following to the Part 1]

Any reference to International Standards that are adopted as National Standards of Canada subsequent to the publication of CSA E60730-2-12 shall be replaced by the relevant National Standard of Canada.

Where reference is made to CSA Group publications, such reference shall be considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following publications, and the years shown indicate the latest editions available at the time of printing:

#### CSA Group

C22.1-18

*Canadian Electrical Code, Part I*

CAN/CSA-C22.2 No. 0-10 (R2015)

*General requirements — Canadian Electrical Code, Part II*

## 3 General requirements

[Replace this Clause with the following]

This Clause of the Part 1 is applicable except as follows.

[Add the following clause]

### 3.1A

General requirements applicable to these products are provided in CAN/CSA-C22.2 No. 0.

## 7 Information

*[Add the following clause to the Part 1]*

### 7.4A Caution and warning markings

Caution and warning markings shall be in both English and French.

## 17 Endurance

### 17.16 Test for particular purpose controls

*[Add the following to the Part 1]*

For door locks utilized in ovens with a self-cleaning function, 100 000 cycles shall be conducted as follows: 94 000 cycles with no load and 6000 cycles with load.

## *Annex H (normative)*

### **Requirements for electronic controls**

#### **H.26 Electromagnetic compatibility (EMC) requirements — Immunity**

##### **H.26.8 Surge immunity test**

###### **H.26.8.3.101**

*[Replace this Clause with the following]*

The tests shall be performed with the door lock in the locked and unlocked condition.

##### **H.26.10 Ring wave immunity test**

###### **H.26.10.5.101**

*[Replace this Clause with the following]*

The tests shall be performed with the door lock in the locked and unlocked condition.

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# INTERNATIONAL STANDARD

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**Automatic electrical controls –  
Part 2-12: Particular requirements for electrically operated door locks**





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# INTERNATIONAL STANDARD

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**Automatic electrical controls –  
Part 2-12: Particular requirements for electrically operated door locks**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 97.120

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International Standard IEC 60730-2-12 has been prepared by technical committee 72: Automatic electrical controls.

This third edition cancels and replaces the second edition published in 2005. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- a) aligns the text with IEC 60730-1, Edition 5;
- b) modifies requirements for Class B control function (H.27.1.2.2);
- c) modifies requirements for Class C control function (H.27.1.2.3);
- d) modifies requirements for faults during safety shut-down.

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

| FDIS        | Report on voting |
|-------------|------------------|
| 72/981/FDIS | 72/993/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.

This part 2 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the fifth edition (2013) of that publication. Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This part 2 supplements or modifies the corresponding clauses in IEC 60730-1 so as to convert that publication into the IEC standard: Particular requirements for electrically operated door locks.

Where this part 2 states "addition", "modification", or "replacement", the relevant requirement, test specification or explanatory matter in part 1 should be adapted accordingly.

Where no change is necessary, this part 2 indicates that the relevant clause or subclause applies.

In the development of a fully international standard, it has been necessary to take into consideration the differing requirements resulting from practical experience in various parts of the world and to recognize the variation in national electrical systems and wiring rules.

The "in some countries" notes regarding differing national practices are contained in the following subclauses:

17.1.3.1

17.7.1

17.7.7

17.10.4

27.2.3.1

In this publication:

1) The following print types are used:

- Requirements proper: in roman type;
- *Test specifications: in italic type;*
- Notes; in small roman type;
- Words defined in Clause 2: **bold**.

2) Subclauses, notes, tables and figures which are additional to those in part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

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## AUTOMATIC ELECTRICAL CONTROLS –

### Part 2-12: Particular requirements for electrically operated door locks

#### 1 Scope and normative references

This clause of Part 1 is applicable except as follows:

##### 1.1 Scope

###### *Replacement:*

This part of IEC 60730 applies to **electrically operated door locks** for use in, on or in association with equipment, including equipment for heating, air-conditioning and similar applications. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc., or a combination thereof.

NOTE 1 Throughout this standard, the word "equipment" includes "appliance" and "control system".

This standard also applies to **electrically operated door locks** for equipment that may be used by the public, such as equipment intended to be used in shops, offices, hospitals, farms and commercial and industrial applications.

This standard does not apply to **electrically operated door locks** intended exclusively for industrial process applications unless explicitly mentioned in the equipment standard.

This standard does not apply to **electrically operated door locks** intended for security access applications.

NOTE 2 Standards that cover these applications are under IEC Technical Committee 79.

###### 1.1.1 *Replacement:*

This standard applies to the inherent safety, to the **operating values, operating sequences** where such are associated with equipment protection, and to the testing of door locks used in, or in association with equipment.

This standard is also applicable to door locks for appliances within the scope of IEC 60335-1.

NOTE Throughout this standard, the word "door" means "door, cover or lid". The words "door lock" mean "electrically operated door lock".

This standard is also applicable to individual door locks utilized as part of a **control system** or door locks which are mechanically integral with multi-functional **controls** having non-electrical outputs or employing motors.

Door locks for equipment not intended for normal household use, but which nevertheless may be used by the public, such as equipment intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard.

This standard is also applicable to the **functional safety of low complexity safety related systems** and **controls** employing door locks as the actuating element.