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

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IEC Secretariat
3, rue de Varembé
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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CONTENTS

FOREWORD 2
1 Scope 5
2 Normative references 6
3 Terms and definitions 6
4 General 7
5 Required technical information 7
6 Protection against electric shock 8
7 Provision for protective earthing 8
8 Terminals and terminations 8
9 Constructional requirements 8
10 Threaded parts and connections 9
11 Creepage distances, clearances and distances through solid insulation 9
12 Components 9
13 Fault assessment on electronic circuits 9
14 Moisture and dust resistance 9
15 Electric strength and insulation resistance 9
16 Heating 9
17 Manufacturing deviation and drift 10
18 Environmental stress 10
19 Endurance 10
20 Mechanical strength 12
21 Resistance to heat, fire and tracking 13
22 Resistance to corrosion 13
23 Electromagnetic compatibility (EMC) requirements - Emission 13
24 Normal operation 13
25 Electromagnetic compatibility (EMC) requirements - Immunity 13
26 Abnormal operation tests 13
Annex H (normative) Requirements related to functional safety 15
Annex R (informative) National differences relevant in the United States of America 20
Annex S (informative) National differences relevant in Japan 21
Annex T (informative) National differences relevant in Canada 22
Bibliography 23

Table 1 – Required technical information and methods of providing these information 7
Table H.1 – Additional items to Table 1 15

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

FOREWORD

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

This fourth edition cancels and replaces the third edition published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

Adoption of IEC 60730-1:2022 with all of its significant changes to IEC 60730-1:2013, IEC 60730-1:2013/AMD1:2015 and IEC 60730-1:2013/AMD2:2020

The text of this International Standard is based on the following documents:

Draft	Report on voting
72/1488/FDIS	72/1502/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts of the IEC 60730 series, under the general title: *Automatic electrical controls*, can be found on the IEC website.

This part 2-12 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the sixth edition of that standard (2022). Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This part 2-12 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 2-12 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 part 2-12 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 reader's attention is drawn to the fact that Annex R, Annex S and Annex T list all of the "in-some-country" clauses on differing practices of a less permanent nature relating to the subject of this document.

In this publication:

a) The following print types are used:
   1) requirements proper: in roman type;
   2) *test specifications: in italic type*;
   3) explanatory matter: in smaller roman type;
   4) defined terms: **bold type**.
b) Subclauses, notes or items which are additional to those in Part 1 are numbered starting from 101, additional annexes are lettered AA, BB, etc.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

– reconfirmed,
– withdrawn, or
– revised.

1 Scope

This clause of Part 1 is replaced by the following:

This document applies to automatic **electrically operated door locks**

– for use in, on, or in association with equipment for household appliance and similar use, including equipment for heating, air-conditioning and similar applications;

NOTE 1 Throughout this document, the word "equipment" means "appliance and equipment" and "controls" means "door locks".

NOTE 2 Throughout this document, the word "door" means "door, cover or lid". The words "door lock" means "**electrically operated door lock**".

– for equipment that is used by the public, such as equipment intended to be used in shops, offices, hospitals, farms and commercial and industrial applications;

EXAMPLE 1 Controls for commercial catering, heating and air-conditioning equipment.

– that are AC or DC powered controls with a rated voltage not exceeding 690 V AC or 600 V DC;

– used in, on, or in association with equipment that use electricity, gas, oil, solid fuel, solar thermal energy, etc., or a combination thereof;

– utilized as part of a control system or controls which are mechanically integral with multifunctional controls having non-electrical outputs;

– using NTC or **PTC thermistors** and to discrete **thermistors**, requirements for which are contained in Annex J;

– that have electrical circuits and control circuits which are, for example, operated by bimetals, magnet coils, memory metals, pressure elements, temperature-sensitive expansion elements or electronic elements.

NOTE 3 Requirements for manually actuated mechanical switches not forming part of an automatic control are contained in IEC 61058-1-1.

This document applies to

– the inherent safety of **electrically operated door locks**, and

– functional safety of **electrically operated door locks** and safety related systems,

– **electrically operated door locks** where the performance (for example the effect of EMC phenomena) of the product can impair the overall safety and performance of the controlled system,

– the operating values, operating times, and operating sequences where such are associated with equipment safety.

This document specifies the requirements for construction, operation and testing of automatic electrical controls used in, on, or in association with an equipment.

This document does not

– apply to **electrically operated door locks** intended exclusively for industrial process applications unless explicitly mentioned in the relevant part 2 or the equipment standard. However, this document can be applied to evaluate automatic electrical controls intended specifically for industrial applications in cases where no relevant safety standard exists;

– take into account the response value of an automatic action of a control, if such a response value is dependent upon the method of mounting the control in the equipment. Where a response value is of significant purpose for the protection of the user, or surroundings, the value defined in the appropriate equipment standard or as determined by the manufacturer will apply;

– address the integrity of the output signal to the network devices, such as interoperability with other devices unless it has been evaluated as part of the control system.

2 Normative references

This clause of Part 1 is applicable.

Bibliography

The Bibliography of Part 1 is applicable except as follows:

Addition:

CSA-E60730-2-12, *Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks*

UL 60730-2-12, *Automatic Electrical Controls - Part 2-12: Particular Requirements for Electrically Operated Door Locks*

JIS C 9730-2-12, *Automatic electrical controls for household and similar use - Part 2-12: Particular requirements for electrically operated door locks*

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