



**SLOVENSKI STANDARD**  
**SIST EN 60730-2-6:2009**

**01-januar-2009**

**BUXca Yý U**

**SIST EN 60730-2-6:1997**

**SIST EN 60730-2-6:1997/A1:1998**

**SIST EN 60730-2-6:1997/A2:1998**

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Automatic electrical controls for household and similar use -- Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

[SIST EN 60730-2-6:2009](#)  
Automatische elektrische Regel- und Steuergeräte für den Hausgebrauch und ähnliche Anwendungen -- Teil 2-6: Besondere Anforderungen an automatische elektrische Druckregel- und Steuergeräte einschließlich mechanischer Anforderungen

Dispositifs de commande électrique automatiques à usage domestique et analogue -- Partie 2-6: Règles particulières pour les dispositifs de commande électrique automatiques sensibles à la pression y compris les exigences mécaniques

**Ta slovenski standard je istoveten z: EN 60730-2-6:2008**

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**ICS:**

|        |                                   |                                      |
|--------|-----------------------------------|--------------------------------------|
| 97.120 | Avtomatske krmilne naprave za dom | Automatic controls for household use |
|--------|-----------------------------------|--------------------------------------|

**SIST EN 60730-2-6:2009**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60730-2-6**

September 2008

ICS 97.120

Supersedes EN 60730-2-6:1995 + A1:1997 + A2:1998

English version

**Automatic electrical controls for household and similar use -  
Part 2-6: Particular requirements for automatic electrical pressure  
sensing controls including mechanical requirements  
(IEC 60730-2-6:2007, modified)**

Dispositifs de commande électrique  
automatiques à usage domestique  
et analogue -  
Partie 2-6: Règles particulières pour  
les dispositifs de commande électrique  
automatiques sensibles à la pression  
y compris les exigences mécaniques  
(CEI 60730-2-6:2007, modifiée)

Automatische elektrische Regel- und  
Steuergeräte für den Hausgebrauch und  
ähnliche Anwendungen -  
Teil 2-6: Besondere Anforderungen an  
automatische elektrische Druckregel- und  
Steuergeräte einschließlich mechanischer  
Anforderungen  
(IEC 60730-2-6:2007, modifiziert)

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This European Standard was approved by CENELEC on 2008-07-01. 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

The text of the International Standard IEC 60730-2-6:2007, prepared by IEC TC 72, Automatic controls for household use, together with the common modifications prepared by the Technical Committee CENELEC TC 72, Automatic controls for household use, was submitted to the CENELEC formal vote and was approved by CENELEC as EN 60730-2-6 on 2008-07-01.

This European Standard supersedes EN 60730-2-6:1995 (+ corr. March 2001) + A1:1997 (+ corr. March 2001) + A2:1998 (+ corr. March 2001).

It incorporates amended requirements for electronic controls in Annex H.

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) 2009-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-07-01

This Part 2-6 is to be used in conjunction with EN 60730-1:2000 + A1:2004, Automatic electrical controls for household and similar use – Part 1: General requirements, and any subsequent amendments.

This Part 2-6 supplements or modifies the corresponding clauses in EN 60730-1 so as to convert that publication into the European Standard. Particular requirements for automatic electrical pressure sensing controls including mechanical requirements.

SIST EN 60730-2-6:2009

Where this Part 2-6 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 2-6 indicates that the relevant clause or subclause applies.

In this publication, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Explanatory matter: in smaller roman type.

Subclauses, notes, tables or figures which are additional to those in Part 1 are numbered starting from 101.

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directive EMC (2004/108/EC). See Annex ZZ.

Annex ZZ has been added by CENELEC.

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## Endorsement notice

The text of the International Standard IEC 60730-2-6:2007 was approved by CENELEC as a European Standard with agreed common modifications as given below.

### COMMON MODIFICATIONS

#### 10 Terminals and terminations

##### 10.1 Terminals and terminations for external copper conductors

**Delete** Subclause “10.1.4 *Addition:*”.

#### 18 Mechanical strength

##### 18.101 Medium leakage

**Delete** “Under consideration.”

In paragraph 4 **delete** the text of a) and b) and **replace** with “the leakage rate is 70 l/h;” in both cases.

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#### H.26 Electromagnetic compatibility (EMC) requirements - immunity

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**H.26.10.5.101** <https://standards.iteh.ai/catalog/standards/sist/e2e6095d-7493-4901-bb68-2ede96141f99/sist-en-60730-2-6-2009>

**Delete** this additional subclause and **replace** by “Void”.

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**Annex ZZ**  
(informative)

**Coverage of Essential Requirements of EC Directives**

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers all relevant essential requirements as given in Article 1 of Annex I of the EC Directive EMC (2004/108/EC).

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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**NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD**

**CEI  
IEC**

**60730-2-6**

Deuxième édition  
Second edition  
2007-02

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**Dispositifs de commande électrique  
automatiques à usage domestique et analogue –**

**Partie 2-6:  
Règles particulières pour les dispositifs de  
commande électrique automatiques sensibles  
à la pression y compris les exigences mécaniques**  
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**Automatic electrical controls  
for household and similar use –**  
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**Part 2-6:  
Particular requirements for  
automatic electrical pressure sensing  
controls including mechanical requirements**

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Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

CODE PRIX  
PRICE CODE

**T**

Pour prix, voir catalogue en vigueur  
For price, see current catalogue

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**AUTOMATIC ELECTRICAL CONTROLS FOR  
HOUSEHOLD AND SIMILAR USE –****Part 2-6: Particular requirements for automatic electrical pressure sensing  
controls including mechanical requirements**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60730-2-6 has been prepared by IEC technical committee 72: Automatic controls for household use.

This second edition cancels and replaces the first edition published in 1991, Amendment 1 (1994) and amendment 2 (1997). This second edition constitutes a technical revision, which incorporates amended requirements for electronic controls in Annex H.



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

|             |                  |
|-------------|------------------|
| FDIS        | Report on voting |
| 72/729/FDIS | 72/737/RVD       |

Full information on the voting for the approval of this part can be found in the Report on Voting indicated in the above table.

This publication has been drafted in accordance with ISO/IEC Directives, Part 2.

This Part 2-6 is intended to be used in conjunction with IEC 60730-1. It was established on the basis of the third edition of that standard (1999) and its amendment 1 (2003). Consideration may be given to future editions of, or amendments to, IEC 60730-1.

This Part 2-6 supplements or modifies the corresponding clauses in IEC 60730-1 so as to convert that publication into the IEC standard: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements.

Where this Part 2-6 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 2-6 indicates that the relevant clause or subclause applies.

## iTeh STANDARD PREVIEW

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 practice are contained in the following subclauses: 10.1.4 and 18.101.

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A list of all parts of the IEC 60730 series, under the general title *Automatic electrical controls for household and similar use*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

## AUTOMATIC ELECTRICAL CONTROLS FOR HOUSEHOLD AND SIMILAR USE –

### Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements

#### 1 Scope and normative references

This clause of Part 1 is applicable except as follows:

##### 1.1 *Replacement:*

This part of IEC 60730 applies to automatic electrical pressure sensing controls with a minimum gauge pressure rating of –60 kPa and a maximum gauge pressure rating of 4,2 MPa, for use in, on or in association with, equipment for household and similar use that may use electricity, gas, oil, solid fuel, solar thermal energy, etc. or a combination thereof, including heating, air-conditioning and similar applications.

##### 1.1.1 *Replacement:*

This standard applies to inherent safety, operating values, operating sequences where such are associated with equipment protection, and to the testing of automatic electrical pressure sensing controls used in, on or in association with, household and similar equipment.

Throughout this standard, the word "equipment" means "appliance and equipment".

This standard does not apply to pressure sensing controls intended exclusively for industrial applications.

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

Automatic electrical pressure sensing controls 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 controls for appliances within the scope of IEC 60335-1.

See also Annex J.

##### 1.1.2 *Replacement:*

This standard applies to automatic electrical controls, mechanically or electrically operated, responsive to or controlling a pressure or vacuum.

##### 1.1.3 Not applicable.

**1.1.4 Replacement:**

This standard applies to manual controls when such are electrically and/or mechanically integral with pressure sensing controls.

Requirements for manual switches not forming part of an automatic control are contained in IEC 61058-1.

**Addition:**

**1.1.101** This standard contains requirements for electrical features of pressure sensing controls and requirements for mechanical features that affect their intended operation.

NOTE Subclause 18.101, as it pertains to gas and/or oil controls, is under consideration pending review or revision by ISO/TC 109 and ISO/TC 161.

**1.1.102** In general, these pressure sensing controls are integrated or incorporated with the equipment or are intended to be integrated in, or on the equipment. This standard also covers these controls when they are independently mounted. In-line cord controls are not covered by this standard.

**1.4 Replacement:**

This standard applies also to pressure sensing controls incorporating electronic devices, requirements for which are contained in Annex H.

This standard applies also to pressure sensing controls using NTC or PTC thermistors, requirements for which are contained in Annex J.

**2 Definitions**

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This clause of Part 1 is applicable except as follows:

**2.2 Definitions of types of control according to purpose****2.2.19 Add the following explanatory note:**

See 2.2.102.

**2.2.20 Add the following explanatory note:**

See 2.2.103.

**Additional definitions:****2.2.101****pressure limiter**

pressure sensing control which is intended to keep a pressure below or above a predetermined value during normal operating conditions and which may have provision for setting by the user

A pressure limiter may be of the automatic or of the manual reset type. It does not make the reverse operation during the normal duty cycle of the equipment.

**2.2.102****pressure operating control**

pressure sensing control set at a high or low pressure, or both, between which limits the equipment is normally intended to operate

**2.2.103****pressure cut-out**

pressure sensing control intended to keep a pressure below or above one particular value during abnormal operating conditions of the equipment and which has no provisions for setting by the user

A pressure cut-out may be of the automatic or of the manual reset type.

Normally a pressure cut-out will provide a Type 2 action.

A pressure cut-out may have an adjustable stop intended to be set by the control manufacturer, the equipment manufacturer or the installer.

**2.3 Definitions relating to the function of controls**

*Additional definitions:*

**2.3.101****pressure medium**

the medium used to transmit the pressure to the pressure sensing element

Pressure medium as used in this standard refers to either gases or liquids.

**2.3.102****differential pressure**

the difference in a pressure between any two points in a system, between two systems or between a system and a reference pressure such as atmospheric pressure

An example is the difference in static pressure between the upstream side of an orifice and the downstream side.

**2.8 Definitions relating to component parts of controls**

*Additional definitions:*

**2.8.101****vent limiting means**

a means which limits the flow of air from or to the atmospheric side of the diaphragm chamber

**2.8.102****vent**

that opening from the atmospheric side of a diaphragm to the atmosphere through which air is discharged or drawn in when the control is functioning

**3 General requirements**

This clause of Part 1 is applicable.

**4 General notes on tests**

This clause of Part 1 is applicable except as follows: