

CONSOLIDATED VERSION

VERSION CONSOLIDÉE



**Low-voltage switchgear and controlgear –
Part 5-5: Control circuit devices and switching elements – Electrical emergency
stop device with mechanical latching function**

**Appareillage à basse tension –
Partie 5-5: Appareils et éléments de commutation pour circuits de commande –
Appareil d'arrêt d'urgence électrique à accrochage mécanique**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR –
Part 5-5: Control circuit devices and switching elements –
Electrical emergency stop device with mechanical latching function**

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This Consolidated version of IEC 60947-5-5 bears the edition number 1.2. It consists of the first edition (1997-11) [documents 17B/837/FDIS and 17B/856/RVD], its amendment 1 (2005-01) [documents 17B/1389/FDIS and 17B/1399/RVD] and its corrigendum (July 2007), and its amendment 2 (2016-02) [documents 121A/60/FDIS and 121A/72/RVD]. The technical content is identical to the base edition and its amendments.

In this Redline version, a vertical line in the margin shows where the technical content is modified by amendments 1 and 2. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.

International Standard IEC 60947-5-5 has been prepared by subcommittee 17B: Low-voltage switchgear and controlgear, of IEC technical committee 17: Switchgear and controlgear.

~~Annex A is for information only.~~

This ~~section 5 standard~~ shall be used in conjunction with IEC 60947-1:~~1996~~ and with IEC 60947-5-1:~~1997~~.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability 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

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INTRODUCTION

The present IEC 60947-5-5 deals specifically with electrical emergency stop devices with mechanical latching function and gives additional electrical and mechanical requirements to those given in the following International Standards:

- ISO 13850 giving requirements for the emergency stop function of a machine, whatever be the energy used;
- IEC 60204-1 giving additional requirements for an emergency stop function realized by the electrical equipment of a machine;
- IEC 60947-5-1 specifying electrical characteristics of electromechanical control circuit devices.

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

Part 5-5: Control circuit devices and switching elements –

Electrical emergency stop device with mechanical latching function

1 Scope

This section of IEC 60947-5 provides detailed specifications relating to the electrical and mechanical construction of emergency stop devices with mechanical latching function and to their testing.

This standard is applicable to electrical control circuit devices and switching elements which are used to ~~provide~~ initiate an emergency stop signal. Such devices may be either provided with their own enclosure, or installed according to the manufacturer's instructions.

This standard does not apply to:

- emergency stop devices for non-electrical control circuit, for example hydraulic, pneumatic;
- emergency stop devices without mechanical latching function.

An emergency stop device may also be used to provide an emergency switching off function (~~see annex A~~).

This standard does not deal with any specific requirements on noise as the noise emission of electrical emergency stop devices with mechanical latching function is not considered to be a relevant hazard.

NOTE See also 9.2.5.4 of IEC 60204-1:2005.

2 Normative references

~~The following normative documents contain provisions, which through reference in this text, constitute provisions of this section of IEC 60947-5. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this section of IEC 60947-5 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.~~

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

IEC 60050(441):1984, *International Electrotechnical Vocabulary (IEV) – Chapter 441: Switchgear, controlgear, fuses*
Amendment 1 (2000)

IEC 60068-2-1:1990 2007, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2:1974 2007, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

IEC 60068-2-6:1995 2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*