



**CSA C22.2 No. 60947-5-5:21**

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

(IEC 60947-5-5:1997+A1:2005+A2:2016, MOD)

**CSA C22.2 n° 60947-5-5:21**

**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**

(IEC 60947-5-5:1997+A1:2005+A2:2016, MOD)



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# National Standard of Canada

CSA C22.2 No. 60947-5-5:21

## **Low-voltage switchgear and controlgear — Part 5-5: Control circuit devices and switching elements — Electrical emergency stop device with mechanical latching function (IEC 60947-5-5:1997+A1:2005+A2:2016, MOD)**

Prepared by  
International Electrotechnical Commission



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

*(IEC 60947-5-5:1997+A1:2005+A2:2016, MOD)*

### **CSA Preface**

This is the first edition of CSA C22.2 No. 60947-5-5, *Low-voltage switchgear and controlgear — Part 5-5: Control circuit devices and switching elements — Electrical emergency stop device with mechanical latching function*, which is an adoption, with Canadian deviations, of the identically titled IEC (International Electrotechnical Commission) Standard 60947-5-5 (edition 1:1997 consolidated with Amendment 1:2005 and Amendment 2:2016). It is one in a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

For brevity, this Standard will be referred to as “CSA C22.2 No. 60947-5-5” throughout.

This Standard is intended to be used in conjunction with CSA C22.2 No. 60947-1, *Low-voltage switchgear and controlgear — Part 1: General rules*, and CSA C22.2 No. 60947-5-1, *Low-voltage switchgear and controlgear — Part 5-1: Control circuit devices and switching elements — Electromechanical control circuit devices*.

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 Integrated Committee on Industrial Control, under the jurisdiction of the CSA Technical Committee on Industrial Products and 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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- b) relevant clause, table, and/or figure number;
- c) wording of the proposed change; and
- d) rationale for the change.

## 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)*