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CSA C22.2 No. 184:15
National Standard of Canada
(reaffirmed 2019)



Solid-state lighting controls



Standards Council of Canada
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Revision History

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Solid-state lighting controls



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Preface

This is the fourth edition of C22.2 No. 184, *Solid-state lighting controls*, one of a series of Standards issued by the Canadian Standards Association under *Part II* of the *Canadian Electrical Code*. This edition supersedes the previous editions, published in 2012, 1988, and 1986.

For general information on Standards of the *Canadian Electrical Code, Part II*, see the Preface to CSA C22.2 No. 0, *General requirements — Canadian Electrical Code, Part II*.

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

This Standard was prepared by the Integrated Committee on Wiring Devices, under the jurisdiction of the Technical Committee on Wiring Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

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 committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.”

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.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity.” It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.*
- 4) *To submit a request for interpretation of this Standard, please send the following information to inquiries@csagroup.org and include “Request for interpretation” in the subject line:*
 - a) *define the problem and, as reference to the specific clause, and, where appropriate, include an illustrative sketch;*
 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
 - c) *where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.*

Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.
- 5) *This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:*
 - a) *Standard designation (number);*
 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA C22.2 No. 184:15

Solid-state lighting controls

1 Scope

1.1

This Standard applies to solid-state lighting controls rated at 600 V and less, with or without an integral switching (disconnecting) device, designed to be used in circuits

- a) for the control of incandescent lamps; and
- b) for the control of fluorescent, HID, ballasted, and similar lamps intended for installation in accordance with the Rules of the *Canadian Electrical Code, Part I*.

1.2

This Standard applies to controls intended for

- a) lighting controls without integral switching (disconnecting control);
- b) devices used as a table-mounted unit to which portable luminaires can be temporarily connected;
- c) devices permanently installed in the supply line of a lamp;
- d) direct plug-in devices; and
- e) other similar applications.

Note: Refer to CSA C22.2 No. 184.1 for flush-mounted dimmers and dimmer devices.

1.3

This Standard does not apply to variable resistor and variable transformer-type controls.

1.4

Control devices containing phase cut dimmers may be optionally tested and marked in accordance with standard NEMA SSL 7A.

1.5

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (nonmandatory) to define their application.

1.6

The values given in SI units are the units of record for the purposes of this Standard. The values given in parentheses are for information and comparison only.