



**CSA/ANSI C22.2 No. 184.2:20**  
National Standard of Canada  
American National Standard



**Solid-state controls for lighting systems  
(SSCLS)**



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# Preface

This is the first edition of CSA/ANSI C22.2 No. 184.2, *Solid-state controls for lighting systems (SSCLS)*. It is one of a series of Standards issued by CSA Group under Part II of the *Canadian Electrical Code*.

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.

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.

This Standard has been approved by the American National Standards Institute (ANSI) as an American National Standard.

**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.”

## 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 in full agreement with all clauses of this Standard.
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  - 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](http://standardsactivities.csa.ca).
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  - b) relevant clause, table, and/or figure number;
  - c) wording of the proposed change; and
  - d) rationale for the change.

# CSA/ANSI C22.2 No. 184.2:20

## Solid-state controls for lighting systems (SSCLS)

### 1 Scope

#### 1.1

This Standard applies to permanently connected, single or multi-branch circuit, multi-circuit output, solid-state lighting controls rated at 600 V and less, 50 or 60 Hz; single or three phase; with or without overcurrent protection on the load side; with or without integral load switching devices; designed to be used as a complete solid-state lighting control system for the purpose of controlling a single type or multiple types of lighting loads, such as

- a) incandescent lamps;
- b) magnetic ballasts;
- c) fluorescent, compact fluorescent, and electric discharge lamps;
- d) HID (pilot duty) and electronic ballasts;
- e) LED and OLED lights and drivers; and
- f) 0 to 10 V dc analog dimming

and intended for installation in accordance with CSA C22.1, *Canadian Electrical Code, Part I*, and NFPA 70, *National Electrical Code (NEC)*.

#### 1.2

This Standard also applies to SSCLS products mounted in a portable manner.

**Note:** “Mounted on wheels” can include wheel-mounted equipment that can be moved by one person, up to large truck- or trailer-mounted assemblies. Similarly, “mounted on skids” can include equipment that is small enough and light enough to be moved by one person, up to large or heavy units that can only be skidded with larger towing vehicles or lifted and moved with hoists or cranes.

#### 1.3

This Standard applies to ac-rated controls for which the load rating does not exceed 40 A per circuit at a maximum of 600 V.

#### 1.4

SSCLS products may include receptacles of configuration 5-15R, 5-20R, and L5-20R, used as lighting load connection points, with access limited to qualified personnel only.

#### 1.5

SSCLS products may include convenience receptacles, mechanical switches, dimming circuits, and other wiring devices on separate circuits.

#### 1.6

SSCLS products may include NC (normally closed) or NO (normally open) contacts for the purpose of controlling other general-use loads rated inductive, resistive, and 2 hp or less.