ULC
STANDARD

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(Reaffirmed 2016)

STANDARD FOR BURGLARY RESISTANT ELECTRONIC COMBINATION LOCKS

Prepared and Published by:

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REFERENCE PUBLICATIONS

STANDARDS PUBLISHED BY THE CANADIAN STANDARDS ASSOCIATION
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CAN/CSA-C22.2 No. 0.17-92, Evaluation of Properties of Polymeric Materials
C22.1-94, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations
C22.2 No. 1-94, Audio, Video, and Similar Electronic Equipment

STANDARDS PUBLISHED BY UNDERWRITERS' LABORATORIES OF CANADA
7 Crouse Road, Scarborough, Ontario M1R-3A9 Canada Telephone: (416) 757-3611

ULC-S318-96, Power Supplies for Burglar Alarm Systems
ULC/ORD-C887-1998, Timelocks
ULC-S337-98, Standard for Delayed-Action Timelocks

STANDARDS PUBLISHED BY UNDERWRITERS LABORATORIES INC.
Available from: IHS Canada Inc., 595 Industrial Road, London, Ontario N5V -1V2 Canada Telephone: (800) 854-7179

UL 1642-1995, Lithium Batteries

STANDARD PUBLISHED BY THE AMERICAN SOCIETY FOR TESTING AND MATERIALS
100 Barr Harbor Drive, West Conshohocken, PA, 19428-2959, U.S.A. Telephone: (610) 832-9500

ASTM B117-94, Method for Salt Spray (Fog) Testing
ASTM D412-92, Test Methods for Vulcanized Rubber and Plastic Rubbers and Plastic Elastomers - Tension

STANDARD FOR BURGLARY RESISTANT ELECTRONIC COMBINATION LOCKS

PREFACE

This is the Reaffirmation of the First Edition of the Standard for Burglary Resistant Electronic combination Locks, ULC-S334.

This Edition of the Standard has been formally approved by the ULC Standards Committee on Physical Security Equipment.

This Standard has been developed in compliance with the requirements of SCC for accreditation of a Standards Development Organization.

Only metric SI units of measurement are used in this Standard. If a value for measurement is followed by a value in other units in parentheses, the second value may be approximate. The first stated value is the requirement.

In Canada, there are two official languages, English and French. All safety warnings must be in French and English. Attention is drawn to the possibility that some Canadian authorities may require additional markings and/or installation instructions to be in both official languages.

This First Edition National Standard of Canada has been reaffirmed.

Attention is drawn to the possibility that some of the elements of this Canadian standard may be the subject of patents rights. ULC Standards shall not be held responsible for identifying any or all such patents rights.

Requests for interpretation of this Standard should be sent to ULC Standards. The requests should be worded in such a manner as to permit a “yes” or “no” answer based on the literal text of the requirement concerned.

The review and action to revise or reaffirm this Standard will not exceed 5 years from the date of publication, unless the Standard is identified as fitting within a stabilized category, whereby the review will commence within the appropriate time frame set out by ULC Standards.

This Standard is intended to be used for conformity assessment.

1. SCOPE

1.1 These requirements cover burglary resistant electronic combination locks designed for attachment on doors of safes, chests, vaults, automated banking machines, depository units, and the like, to provide a means of locking the boltwork against unauthorized opening.

1.2 These requirements are intended to test the ability of burglary resistant electronic combination locks to resist unauthorized opening for a limited period of time. Electronic combination locks covered by these requirements may or may not have integral protection against entry by force.

1.3 These requirements cover burglary resistant electronic combination locks powered by electrical circuits, or they generate their own power as a function of their operation. A power supply that is used to energize a burglary resistant electronic combination lock shall comply with the requirements of the Standard for Power Supplies for Burglar Alarm Systems, ULC-S318.

1.4 If a burglary resistant electronic combination lock has a timelock feature, it shall comply with ULC-ORD-C887, Timelocks.

1.5 If a burglary resistant electronic combination lock has a time delay feature in any user mode, it shall comply with ULC-S337, Standard for Delayed-Action Timelocks.

1.6 The requirements of this Standard do not apply to components and systems external to the burglary resistant electronic combination lock which are required for the administration and operation of the locking system.

2. GLOSSARY

Note: For the purpose of this Standard, the definitions in *italic print* shall apply.

AUDIT TRAIL - Minimum number of events retained by the burglary resistant electronic combination lock to specifically include date, time, all types of events, and identification.

DUAL CUSTODY - Two persons with two different combinations.

ELECTRONIC OVERRIDE - A unique combination allowing entry into the lock, which may be provided by the manufacturer.

EXTRA-LOW VOLTAGE - Any voltage up to and including 30 V.

FIRMWARE - Basic operating program which is inherent to the system and is not field programmable.

HIGH VOLTAGE - Any voltage above 750 V.

LOW VOLTAGE - Any voltage from 31 to 750 V inclusive.

OVERVIEW - Technique/method of obtaining the combination of a burglary resistant electronic combination lock by unauthorized viewing while the combination is being dialled by the custodian.