CAN/ULC 528:2024

Standard for Manual Stations for Fire Alarm Systems, Including Accessories

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CETTE NORME NATIONALE DU CANADA EST DISPONIBLE EN VERSIONS FRANÇAISE ET ANGLAISE

Standard for Manual Stations for Fire Alarm Systems, Including Accessories, CAN/ULC 528

Third Edition, Dated October 1, 2014

Summary of Topics

The revision of CAN/ULC 528 dated July 8, 2024 includes an alternate 21-day Corrosion Test; 8.11.1.1, 8.11.1.3, and Section 8.11.4, and an editorial correction to TABLE 3.

Text that has been changed in any manner or impacted by ULSE's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated March 26, 2024.

PLEASE NOTE THAT CERTAIN CODES MAY REFER TO A SUPERSEDED VERSION OF THIS STANDARD. IN THOSE INSTANCES, THE RELEVANT VERSIONS ARE AVAILABLE FOR PURCHASE.

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CAN/ULC 528:2024

Standard for Manual Stations for Fire Alarm Systems, Including Accessories

ICS 13.220.20; 13.320

First Edition . . . . . May 1991
Second Edition . . . . . November 2005
THIRD EDITION . . . . . OCTOBER 2014
Revision . . . . . October 1, 2019
Revision . . . . . November 30, 2023
REVISION . . . . . JULY 8, 2024

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PREFACE

This is the Third Edition CAN/ULC 528, Standard for Manual Stations for Fire Alarm Systems, Including Accessories.

This Edition of the Standard was formally approved by the ULC Standards Committee on Fire Alarm and Life Safety Equipment and Systems.

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.

Appendix A, identified as Normative, forms a mandatory part of this Standard.

Appendix B, identified as Informative, is for information purposes only.

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 Third Edition National Standard of Canada is based on, and now supersedes, the Second Edition CAN/ULC-S528-05.

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

This CAN/ULC 528 Standard is under continuous maintenance, whereby each revision is approved in compliance with the requirements of SCC for accreditation of a Standards Development Organization. In the event that no revisions are issued for a period of four years from the date of publication, action to revise, reaffirm, or withdraw the standard shall be initiated.

Comments or proposals for revisions on any part of the Standard may be submitted at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

This Standard is intended to be used for conformity assessment.

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1 SCOPE

1.1 This Standard covers *manual station*s and their accessories for installation in ordinary locations, indoor and outdoor, for use in fire alarm systems.

1.2 A *manual station* having a pre-wound signalling mechanism and equipped with a tripping electromagnet to permit automatic actuation by separate detectors, and similar combination devices, will be judged with respect to compliance with the applicable requirements for both *manual station*s and electrically actuated transmitters.

1.3 This Standard does not cover municipal fire alarm boxes or electrically actuated transmitters.

1.4 This standard also covers *manual station*s used for ancillary service, such as *manual station*s for the electrical release of extinguishing systems.

2 REFERENCE PUBLICATIONS

2.1 The documents shown below are referenced in the text of this Standard. Unless otherwise stated elsewhere in this Standard such reference shall be considered to indicate the edition and/or revisions of the document available at the date on which the Committee approved this ULC Standard. All undated references shall be interpreted as referring to the latest edition of that document.

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• ASTM B117-12, Standard Practice for Operating Salt Spray (Fog) Apparatus

• ANSI/ASTM B86-11, Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings

• ASTM E27-81, Standard Method of Spectographic Analysis of Zinc and Zinc Alloys by the Solution-Residue Technique

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• CSA C22.1-12, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations

• CSA C22.2 No. 0.1-M1985 (R2008), General Requirements for Double-Insulated Equipment – General Instruction No. 1

• CSA C22.2 No. 0.15-01 (R2006), Adhesive Labels

• CAN/CSA C22.2 No.0.17-00 (R2009), Evaluation of Properties of Polymeric Materials

• CAN/CSA C22.2 No. 0.4-04 (R2009), Bonding of Electrical Equipment

• CAN/CSA C22.2 No. 5-09, Molded-Case Switches and Circuit Breaker Enclosures

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• CSA C22.2 No. 8-M1986 (R2008), Electromagnetic Interference Filters (EMI)

• CAN/CSA C22.2 No. 18.1-04 (R2009), Nonmetallic Outlet Boxes

• CAN/CSA C22.2 No. 18.2-06, Tubing and Cable Fittings Conduit

• CAN/CSA C22.2 No. 18.3-04 (R2009), Tubing and Cable Fittings Conduit

• CSA C22.2 No. 21-95, Cord Sets and Power Supply Cords

• CSA C22.2 No. 24-93 (R2008), Temperature Indicating and Regulating Equipment

• CSA C22.2 No. 38-10, Thermoset-Insulated Wires and Cables

• CSA C22.2 No. 42-10, General Use Receptacles, Attachment Plugs and Similar Wiring Devices

• CSA C22.2 No. 43-08, Lampholders

• CSA C22.2 No. 49-, Flexible Cords and Cables

• CSA C22.2 No. 55-M1986 (R2008), Special Use Switches Wiring Products Forming Part of the Canadian Electrical Code Part II

• CAN/CSA C22.2 No. 65-03 (R2008), Wire Connectors

• CSA C22.2 No. 66.1-06, Low Voltage Transformers – Part 1: General Requirements

• CSA C22.2 No. 66.2-06, Low Voltage Transformers – Part 2: General Purpose Transformers

• CSA C22.2 No. 66.3-06, Low Voltage Transformers – Part 3: Class 2 and Class 3 Transformers

• CSA C22.2 No. 75-08, Thermoplastic-Insulated Wires and Cables

• CSA C22.2 No. 77-95 (R2009), Motors with Inherent Overheating Protection – General Instructions No. 1

• CSA C22.2 No. 100-04, Motors and Generators

• CSA C22.2 No. 111-10 (R2012), General-Use Snap Switches

• CSA C22.2 No. 127-09 (R2012), Equipment and Lead Wires

• CSA C22.2 No. 142-M1987 (R2009), Process Control Equipment Industrial Products

• CSA C22.2 No. 153-09, Electrical Quick Connect Terminals

• CSA C22.2 No. 156-M1987 (R2004), Solid State Controls

• CSA C22.2 No. 158-10, Terminal Blocks

• CSA C22.2 No. 190-M1985 (R2009), Capacitors for Power Factor Correction

• CSA C22.2 No. 197-M1983 (R2008), Polyvinyl Chloride, Polyethylene and Rubber Insulating Tape

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• CSA C22.2 No. 198.1-06 (R2010), Extruded Insulating Tubing

• CSA C22.2 No. 210-11, Appliance Wiring Material Products

• CSA C22.2 No. 223-M1991 (R2009), Power Supplies with Extra-Low Voltage Class 2 Outputs

• CSA C22.2 No. 226-92 (R2011), Protectors in Telecommunication Networks

• CSA C22.2 No. 235-04, Supplementary Protectors

• CSA C22.2 No. 244-05 (R2010), Switchboards

• CSA C22.2 No. 248.1-11, Low-Voltage Fuses – Part 1: General Requirements

• CSA C22.2 No. 248.4-00, Low-Voltage Fuses – Part 4: Class CC Fuses

• CSA C22.2 No. 248.5-00, Low-Voltage Fuses – Part 5: Class G Fuses

• CSA C22.2 No. 248.8-11, Low-Voltage Fuses – Part 8: Class J Fuses

• CSA C22.2 No. 248.10-11, Low-Voltage Fuses – Part 10: Class L Fuses

• CSA C22.2 No. 248.12-11, Low-Voltage Fuses – Part 12: Class R Fuses

• CAN/CSA C22.2 No. 248.15-00, Low-Voltage Fuses – Part 15: Class T Fuses

• CSA C22.2 No. 65-03 (R2010), Wire Connectors

• CSA C22.2 No. 4248.1-07, Fuseholders – Part 1: General Requirements

• CSA C22.2 No. 4248.4-07, Fuseholders – Part 4: Class CC

• CSA C22.2 No. 4248.5-07, Fuseholders – Part 5: Class G

• CSA C22.2 No. 4248.6-07, Fuseholders – Part 6: Class H

• CSA C22.2 No. 4248.8-07, Fuseholders – Part 8: Class J

• CSA C22.2 No. 4248.9-07, Fuseholders – Part 9: Class – K

• CSA C22.2 No. 4248.11-07, Fuseholders – Part 11: Type C (Edison Base) and Type S Plug Fuse

• CSA C22.2 No. 4248.12-07, Fuseholders – Part 12: Class R

• CSA C22.2 No. 4248.15-07, Fuseholders – Part 15: Class T

• CAN/CSA C22.2 No. 60065-03 (R2007), Audio, Video, and Similar Electronic Equipment

• CAN/CSA C22.2 No. 61058-1-09, Switches for Appliances – Part 1: General Requirements

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• CAN/CSA E60384-14-09, Fixed Capacitors for Use in Electronic Equipment – Part 14: Sectional Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains

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• CAN/ULC-S524, Standard for Installation of Fire Alarm Systems

• CAN/ULC 526, Standard for Visible Signal Devices for Fire Alarm Systems Including Accessories

• CAN/ULC 527, Standard for Control Units for Fire Alarm Systems

• CAN/ULC-S710.2-11, Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 2: Installation

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• ANSI/UL 94-13, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

• ANSI/UL 746A-00 (R2011), Polymeric Materials – Short Term Property Evaluations

• ANSI/UL 746B-96 (R2011), Polymeric Materials – Long Term Property Evaluations

• ANSI/UL 746C-04 (R2012), Polymeric Materials – Use in Electrical Equipment Evaluations

• ANSI/UL 746D-98 (R2008), Polymeric Materials – Fabricated Parts

• ANSI/UL 796-10 (R2012), Printed-Wiring Boards

• UL 969-95 (R2008), Marking and Labeling Systems

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3 GLOSSARY

NOTE: Terms used in this Standard that are in italic print are defined as follows:

3.1 *ADDRESSABLE MANUAL STATION* – A *manual station* that can be uniquely identified by a control unit and/or transponder to determine its presence and operating status and which may be commanded to change its operating parameters independently of other field devices that share a common circuit.

3.2 *MANUAL STATION* – A device designed to initiate a signal when operated manually.

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