UL 864

STANDARD FOR SAFETY

Control Units and Accessories for Fire Alarm Systems

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UL Standard for Safety for Control Units and Accessories for Fire Alarm Systems, UL 864

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Summary of Topics

This revision of ANSI/UL 864 dated October 25, 2024 has been issued to add exception for components in Monitoring Integrity, 27.3.

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 revised requirements are substantially in accordance with Proposal(s) on this subject dated August 2, 2024.

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Preface

This is the common ULSE and ULC Standard for Control Units and Accessories for Fire Alarm Systems. It is the fifth edition of CAN/ULC 527 and the Eleventh edition of UL 864.

This common Standard was prepared by UL Standards & Engagement Inc. (ULSE), ULC Standards, and the Joint UL/ULC Task Group. The efforts and support of the Joint Task Group are gratefully acknowledged.

This Standard was formally approved by the ULC Standards Committee on Fire Alarm and Life Safety Equipment and Systems and UL Standard Technical Panel on Fire Protection Signaling Equipment.

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.

Annexes A, B and C are identified as informative and are for informational purposes only.

Note: 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.

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INTRODUCTION

1 Scope

1.1 This Standard covers requirements as related to the following:

a) Discrete electrical control units and accessories for fire alarm systems including smoke control, releasing, Building System Information Unit (BSIU), and emergency communication systems;

b) Electrically- and electronically-operated amplifiers that provide speech communication and distinctive sounds in conjunction with fire protective signaling systems; and

c) Commercial stationary and fixed power supplies for fire-protective signaling systems, having input and output ratings of not more than 600 V, direct- and alternating-current, (DC and AC).

1.2 This Standard covers requirements for control units, fire alarm systems and control unit accessories to be employed in ordinary (nonhazardous) indoor and outdoor locations in accordance with the following standards as applicable:

a) CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations

b) NBC, National Building Code of Canada

c) NFPA 12, Standard for Carbon Dioxide Extinguishing Systems

d) NFPA 12A, Standard for Halon 1301 Fire Extinguishing Systems

e) NFPA 13, Standard for the Installation of Sprinkler Systems

f) NFPA 15, Standard for Water Spray Fixed Systems for Fire Protection

g) NFPA 16, Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems

h) NFPA 17, Standard for Dry Chemical Extinguishing Systems

i) NFPA 17A, Standard for Wet Chemical Extinguishing Systems

j) NFPA 70, National Electrical Code

k) NFPA 72, National Fire Alarm and Signaling Code

l) NFPA 92, Standard for Smoke, Control Systems

m) NFPA 750, Standard for Water Mist Fire Protection Systems

n) NFPA 2001, Standard for Clean Agent Fire Extinguishing Systems

o) NFPA 2010, Standard for Aerosol Fire Extinguishing Systems

p) ULC-S524, Standard for the Installation of Fire Alarm Systems.

1.3 The products covered by this standard are intended to be used in combination with other appliances and devices to form a commercial fire alarm system. These products provide all monitoring, control, and indicating functions of the system. An installation document(s) provided with the product describes the various products needed to form a fire alarm system and their intended use and installation.

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