

STANDARD INFORMATION

Standard: UL 864

Standard ID: Control Units and Accessories for Fire Alarm Systems [UL 864:2014 Ed.10+R:07May2020]

Previous Standard ID: Control Units and Accessories for Fire Alarm Systems [UL 864:2014 Ed.10+R:29Mar2018]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **May 7, 2022**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard.

Overview of Changes:

- New requirements for building system information units
- New requirements for special application smoke detectors

Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
	Info	BUILDING SYSTEM INFORMATION UNIT (BSIU) PROCESSING EQUIPMENT SOFTWARE <i>New section added;</i> General 54A Sections 54A – 54C describe the methods for evaluation of the software utilized in BSIUs. These sections apply to equipment for use at the protected premises for the purpose of display and control of the fire alarm, smoke control and mass notification system(s). See standard for details. <i>New section added;</i>
		54B Operation See standard for details. <i>New section added;</i>
		54C Installation Information See standard for details.
67	Info	Compatibility Tests
67.5	Info	Signaling line circuit (SLC)
67.5.2	Info	Alarm and/or trouble threshold limits <i>New clause added;</i>
67.5.2.4		Detectors that have a special application mode/configuration in accordance with 31.1.1.2 of UL 268 shall comply with normal application requirements wherein the detector or relevant sampling ports of an air sampling detector complies with all applicable requirements defined in UL 268. <i>New clause added;</i>
67.5.2.5		The alarm and threshold limits determined by the control unit or accessory interconnected to detectors that employ a special application mode/configuration shall be designed and shipped from the factory with the normal application mode/configuration being the default mode of operation.



CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
67.5.2.6		The special application mode/configuration shall not be activated at the control unit/accessory without a deliberate action by the user to initiate the special application mode/ configuration. Deliberate actions include, but are not limited to, selecting the sensitivity consistent with the special application mode/configuration.
		<i>New clause added;</i>
67.5.2.7		One of the following means of a visual indication with identifiable markings shall be provided for detectors operating in special application mode: a) At the spot-type or air sampling-type detector, or b) At the control panel via displayed descriptive information on the specific detector, or c) At the relevant sampling ports of the air sampling-type detector.
96	Info	Installation Wiring Diagram/Instructions
		<i>New clause added;</i>
96.32		The following information shall be included where a control unit/accessory controls or determines the special application mode/configuration sensitivity threshold(s) for smoke detectors in accordance with 67.5.2.4 – 67.5.2.6: a) The statement: “Detectors [Sampling ports] set to the special application sensitivity are not suitable for use in areas where cooking appliances may be used. If cooking appliances are used within the protected space, a normal application detector or normal application mode or configuration must be used for that area.” b) A warning to users that the special application mode of operation is not for general use and may be more prone to false alarms if used in unsuitable environments. c) A list of examples of suitable and unsuitable environments for the detector, consistent with the requirements in (a). Exception: This information need not be included when It is provided in the installation instructions of the interconnected smoke detector. d) A description of potential nuisance alarm sources. Exception: This information need not be included when It is provided in the installation instructions of the interconnected smoke detector. e) A description of the method to configure the detector's special application sensitivity. f) A description of the method to provide a visual indication with identifiable markings for detectors operating in the special application mode in accordance with 67.5.2.7.