

STANDARD INFORMATION

UL 864:2014 Ed.10+R:29Mar2018

Standard Number: UL 864

Standard Name: Control Units and Accessories for Fire Alarm Systems

Standard Edition and Issue Date: 10th Edition Dated December 1, 2014

Date of Revision: March 29, 2018

Date of Previous Revision of Standard: December 1, 2014

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **October 1, 2021**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

Overview of Changes:

- Amendments to Class A Requirements for Wireless Pathways
- Requirement Amendments to Classes B, C and X to Include Wireless Pathways

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

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 underlined and deletions are shown lined out below.</i>
56	Info	Common Performance and Monitoring for Integrity – Protected Premises Units/Systems
56.1	Info	General
		Pathways designated Class A shall operate as follows: c) Operational capability in a radio frequency and/or wireless pathway/channel continues during a single fault consisting of each of the following applied separately: loss of a transceiver, loss of a repeater, application of an adverse condition at a transceiver/repeater. <u>The fault shall result in the annunciation of a trouble signal.</u> 1) <u>Application of an adverse condition at a transceiver/repeater other than the device under test;</u> 2) <u>Blocking one transmission path/channel while in use at the device under test for sending and/or receiving signals; and</u> 3) <u>Blocking one path/channel at the control unit receiver/transceiver while that channel is in use for receiving signals from and/or sending signals to the device under test.</u> The fault shall result in the annunciation of a trouble signal <u>when two paths/channels are no longer available.</u> d) <u>Each transceiver and/or repeater in a radio frequency and/or wireless pathway/channel is powered by one of the following means:</u> 1) <u>Both a primary source meeting 55.2 and a secondary source meeting 55.3;</u> 2) <u>Multiple primary batteries meeting 55.4 (k).</u>
56.1.8		
		Pathways designated as Class B shall operate as follows: f) <u>Each transceiver and/or repeater in a radio frequency and/or wireless pathway/channel is powered by one of the following means:</u> 1) <u>Both a primary source meeting 55.2 and a secondary source meeting 55.3;</u> 2) <u>Multiple primary batteries meeting 55.4 (k).</u>
56.1.9		



CLAUSE	VERDICT	COMMENT
56.1.10		<p>Pathways designated as Class C shall operate at follows:</p> <p><u>e) Each transceiver and/or repeater in a radio frequency and/or wireless pathway/channel is powered by one of the following means:</u></p> <ol style="list-style-type: none"><u>1) Both a primary source meeting 55.2 and a secondary source meeting 55.3;</u><u>2) Multiple primary batteries meeting 55.4 (k).</u> <p><i>Exception: The end device on the pathway.</i></p>
56.1.13		<p>Pathways designated as Class X shall operate as follows:</p> <p>c) Operational capability in a radio frequency and/or wireless pathway/channel continues during a single fault consisting of each of the following applied separately: loss of a transceiver, loss of a repeater, application of an adverse condition at a transceiver/repeater. The fault shall result in the annunciation of a trouble signal.</p> <ol style="list-style-type: none"><u>1) Application of an adverse condition at a transceiver/repeater other than the device under test;</u><u>2) Blocking one transmission path/channel while in use at the device under test for sending and/or receiving signals; and</u><u>3) Blocking one path/channel at the control unit receiver/transceiver while that channel is in use for receiving signals from and/or sending signals to the device under test.</u> <p>The fault shall result in the annunciation of a trouble signal.</p> <p><u>d) Each transceiver and/or repeater in a radio frequency and/or wireless pathway/channel utilizes frequency hopping spread spectrum technology or equivalent means to ensure the reliability of pathways.</u></p> <p><u>e) Each transceiver and/or repeater in a radio frequency and/or wireless pathway/channel is powered by one of the following means:</u></p> <ol style="list-style-type: none"><u>1) Both a primary source meeting 55.2 and a secondary source meeting 55.3;</u><u>2) Multiple primary batteries meeting 55.4 (k).</u>
<p>CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.</p>		