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# UL 1998

## **STANDARD FOR SAFETY**

## Software in Programmable Components



UL Standard for Safety for Software in Programmable Components, UL 1998

Third Edition, Dated December 18, 2013

### **Summary of Topics**

***This revision of ANSI/UL 1998 includes the following:***

***Clarification of Scope***

***Clarification of Process Definition and Risk Analysis***

***Clarification of Variable Initialization***

***Clarification Regarding Use of Volatile Memory for Program Execution and Data Storage During Operation***

***Addition of Consideration of Programmable Component Errata as a Potential Cause of Microelectronic Hardware Failures***

***Clarification of Requirements for User Cancellation***

***Clarification of Requirements for Unique Identifier***

***Clarification of Applicability of Appendix A***

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated May 4, 2018 and August 3, 2018.

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**ANSI/UL 1998-2018**

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**UL 1998**

**Standard for Software in Programmable Components**

First Edition – January, 1994  
Second Edition – May, 1998

**Third Edition**

**December 18, 2013**

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through September 24, 2018.

The most recent designation of ANSI/UL 1998 as an American National Standard (ANSI) occurred on September 21, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

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

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