



EISW Series of Ethernet Switches suitable for UL 508A Control Panels



The EISW series consists of 5, 8 and 16-port 10/100 Mbps Ethernet switches that can be DIN-rail mounted in control panels and powered from a NEC class 2 limited energy power source. The EISW switches are UL Listed as Information and Communication Technology Equipment under safety standard UL 62368-1 and can be installed in a UL 508A panels without invalidating the control panel listing.

UL 508 transitions towards IEC standards

To allow wider acceptance and reduce testing for different standards, UL has been working towards harmonizing with IEC standards. New UL standards for UL 508 transition have been released since 2014. This transition impacts the public perception of only accepting UL 508 equipment for use in UL 508A control panels. The new applicable standards depend on the type of equipment and can be UL 61010, UL 62368, UL 60947 to name a few.

UL 508A Standard covers industrial control panels intended for general industrial use, operating from a voltage of 1000 volts or less. This equipment is intended for installation

in ordinary locations, in accordance with the National Electrical Code, ANSI/NFPA 70, where the ambient temperature does not exceed 40°C (104°F) maximum. The EISW series of automation switches can be installed in a 508A panel by following the requirements for components when used in industrial control panels. This information can be found on the UL website with the title UL 508A Supplement SA1.1 at <https://www.ul.com/UL508A-SupplementSA>. The supplement is now a standalone document and no longer attached to UL 508A. Excerpts from the supplement are shown below. Follow down the long list of components until you reach **Section 44** on page 41-

SUPPLEMENT SA SPECIFIC COMPONENT REQUIREMENTS FOR INDUSTRIAL CONTROL PANELS

March 30, 2022

This document is intended to be used to determine the requirements for components when used in industrial control panels. This document replaces what was Supplement SA in the Second Edition of UL 508A, and subsequently Appendix C in the Third Edition of UL 508A. It supersedes the previous version of this document dated November 24, 2020

References in this document to sections or paragraphs in UL 508A are understood to be to the third edition of the standard with revisions dated August 5, 2021.

Table 1

Components that comply with specific requirements

UL508A Paragraph reference	Component description	UL Standard	Category control number(s)	Notes
UL 508A Section/Paragraph Reference				
Section 44 - Class 2 sources meeting component selection requirements				
44.1.1	Listed Class 2 transformer	UL 5085-1 and UL 5085-3	XOKV	
44.1.1	Recognized Class 2 transformer	UL 5085-1 and UL 5085-3	XOKV2	Product identified on Recognition information page as not inherently limited Class 2 transformer requires additional overcurrent protection
44.1.2	Listed Direct Plug-in Class 2 power unit	UL 1310	EPBU	
44.1.2	Recognized Direct Plug-in Class 2 power unit	UL 1310	EPBU2	
44.1.4	Listed Information technology equipment and Listed information and communication technology equipment	UL 60950-1 or UL 62368-1	AZOT, NWGQ	Only when marked for limited-energy circuit use. Output connectors/circuits of Listed ITE and Listed ICT equipment are assumed Limited Power Sources (LPS) supplying a limited power (limited energy) circuit unless marked otherwise.

Under 44.1.4 identifies a category of Information Technology Equipment (ITE) referencing the UL 60950 and UL 62368-1 standards. The EISW is UL 62368-1 listed. In the note section it mentions that the ITE equipment must be powered by a limited power source. The EISW is flexible in powering. Consult the installation guide for powering options. A listed Class 2 transformer is what is recommended.

CERTIFICATE OF COMPLIANCE

Certificate Number E530406
Report Reference E530406-20220928
Issue Date 2022-SEPTEMBER-28

Issued to: CONTEMPORARY CONTROL SYSTEMS INC
 2431 Curtiss St, Downers Grove
 IL, 60515-4006, US

This certificate confirms that representative samples of AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT
 See Addendumpage for Models/Product

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

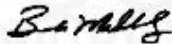
Standard(s) for Safety: UL 62368-1 & CAN/CSA C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment Part 1: Safety requirements

Additional Information: See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Conformity Assessment Director
 UL LLC

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CERTIFICATE OF COMPLIANCE

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Industrial 8-Port 10/100TX Compact Ethernet Switch

EISW8-100T

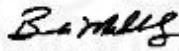
Industrial 5-Port 10/100TX Compact Ethernet Switch

EISW5-100T

Industrial 16-Port 10/100TX Fast Ethernet Switch

EISW16-100T

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Bruce Mahreholz, Conformity Assessment Director
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