



# Certificate of Compliance

**Certificate:** 1447865

**Master Contract:** 205078 (205078)

**Project:** 70171724

**Date Issued:** 2018-05-23

**Issued to:** Analog Devices Inc.  
804 Woburn St  
Wilmington, Massachusetts 01887-3462  
USA  
**Attention:** Mark Cantrell

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicator ▲*



**Issued by:** *Martin Buchanan*  
Martin Buchanan, P. Eng.

## **PRODUCTS**

CLASS - C907330 - ELECTRONIC COMPONENTS-Optoisolators

Component Acceptance of Optoisolator Like Magnetic Coupling Devices:



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Device	Rating		Standard/Notice and Clauses	Internal		External
	kV	°C		Creepage (mm)	Dist Thru (mm)	Creep/Clear (mm)
(SOIC 16W RW package) ADuM130xyRWZ ADuM140xyRWZ ADuM1310yRWZ ADuM1311yRWZ ADuM1410yRWZ ADuM1411yRWZ ADuM1412yRWZ ADM2486yRWZ ADM2483yRWZ ADuM330xyRWZ ADuM3310yRWZ ADuM340xyRWZ ADuM3410yRWZ ADuM344xyRWZ ADuM1300WyRWZab ADuM1301WyRWZab ADuM1310WyRWZab ADuM1311WyRWZab ADuM1400WyRWZab ADuM1401WyRWZab ADuM1402WyRWZab ADuM1410WyRWZab ADuM1411WyRWZab ADuM1412WyRWZab ADuM3300WyRWZab ADuM3301WyRWZab ADuM3400WyRWZab ADuM3401WyRWZab ADuM3402WyRWZab	2.5	125	CSA 14-18 Tbl 35, 6.2.1.1, 6.2.1.1/6.2.10, 6.8.1.1 60950-1-07+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1-12+A1 K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 60601-1:14 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7  IEC 60950-1 2nd Ed.,+A1+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 62368-1:2014 Ed. 2 5.4.3, 5.4.2, 5.4.4.4, 5.4.7, 5.4.1.5.3, 5.4.9.1, 4.1.2 61010-1 3 <sup>rd</sup> Ed A1 K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10 60601-1 Ed.3+A1 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7  EN 60950-1:2006+A1+A12+A2 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2	-	-	7.8

Where x may be 1 digit differentiating devices with different channel direction configurations, y may be a letter designating the performance grade and RW indicates wide body SOIC. Z if used indicates the lead-free version. Suffix ab is a 2 digit number denoting specific supply voltage combinations. Suffix EP at the end of the base part number indicates lower extended temperature capability to -55C with a NiPdAu lead finish. Further suffix letters or digits differentiate shipping package formats.

**Notes:**

1. These devices meet basic insulation requirements for 780Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)



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2. These devices meet basic insulation requirements for 600V including 400/690Vrms for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
3. These devices meet reinforced insulation requirements for 390Vrms for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2. (pollution degree 2, material group III)
4. These devices meet reinforced insulation requirements for 150Vrms including 120/208Vrms and 120/240Vrms for CSA 62368-1-14 and IEC 62368-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. these devices meet 150Vrms for reinforced insulation based on 61010-1 Cl 14.1 a) for use in 61010-1 end products because they meet the requirements of the 62368-1 evaluation. (pollution degree 2, material group III)
6. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 150Vrms, the devices meet clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7. The risk management process is not applicable to these clauses.
7. Case material: Multiple mold compounds have been evaluated. All meet at least material group II.
8. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
9. The creepage and clearance has been evaluated for altitudes  $\leq 2000\text{m}$ , in pollution degree 2 and overvoltage category II except where specified above. (pollution degree 2, material group III).

These devices are Component Accepted as components for use in other Certified equipment where the suitability of the combination shall be determined by investigation in the final application.

### **APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No 14-18 - Industrial Control Equipment  
CAN/CSA-C22.2 No 60950-1-07+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements (Bi-national Standard, with UL 60950-1)  
CAN/CSA-C22.2 No. 62368-1-14 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
IEC 62368-1:2014 Ed. 2 - Audio/video, information and communication technology equipment– Part 1: Safety requirements  
EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements

Clauses K.3, K.4, 6.7.1.3, 6.7.2.2.2 A.17, K.6x1.6, K.7x1.6, 10  
of

- CAN/CSA-C22.2 No. 61010-1-12+A1 2015 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements (Tri-national standard, with UL 61010-1 Ed. 3 and ANSI/ISA-61010-1 (82.02.01)

and

- IEC 61010-1:2010 3<sup>rd</sup> Ed. - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements

Clauses 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2, 8.9.3.4, 8.9.1.15, 8.9.1.7  
of



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- CAN/CSA C22.2 60601-1:14 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance (Adopted IEC60601-1:2005 Edition 3.0 +Amendment 1, 2012-07, MOD)
- and
- IEC60601-1:2005 Ed 3.0+A1 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70171724	2018-05-23	Addition of alternative moulding compound Sumitomo EME-G770HCD
70045066	2016-06-23	Update to 1447865 for alternative mould compound and leadframe based on results for similar devices from other report(s)
2373809	2010-11-26	Corrections to Report
2023465	2008-05-27	evaluation for 125C and addition of W automotive models ADuM13xxW, 14xxW, 33xxW and 34xxW
1936089	2007-08-17	Addition of ADuM344x
1843492	2006-11-10	Addition of models ADuM1411, ADuM1412, ADuM1311
1709878	2005-09-16	Addition of ADuM330xyRWZ, ADuM3310yRWZ, ADuM340xyRWZ and ADuM3410yRWZ
1490165	2003-10-24	Addition of ADuM1310yRWZ, ADuM1410yRWZ, ADM2486yRWZ and ADM2483yRWZ.
1447865	2003-08-20	CA-5A