



# Certificate of Compliance

Certificate: 70202314

Master Contract: 205078 (205078)

Project: 70202314

Date Issued: 2019-01-21

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 Capacitive Coupling Devices:

| Device                                                             | Ratings |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Internal      |                | External         |
|--------------------------------------------------------------------|---------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|------------------|
|                                                                    | (kV)    | °C  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Creepage (mm) | Dist Thru (mm) | Creep/Clear (mm) |
| SOIC 8W (RI-8-1)                                                   | (kV)    | °C  | Standard/Notice and Clauses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Creepage (mm) | Dist Thru (mm) | Creep/Clear (mm) |
| ADuM4121xRIZ<br>ADuM4121WxRIZ<br>ADuM4121-1xRIZ<br>ADuM4121-1WxRIZ | 5.0     | 125 | CSA<br>14-18 tb35, 6.2.1.1, 6.2.1.1/6.2.10, 6.8.1.1<br>60950-1-07+A1+A2 2.10.3.3, 2.10.4.2,<br>2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2<br>62368-1-14 5.4.3, 5.4.2, 5.4.4.4, 5.4.7,<br>5.4.1.5.3, 5.4.9.1, 4.1.2<br>61010-1-12+A1 6.7.1.3, 6.7.2.1 or tbK.1 to<br>K.4, 6.7.2.2.1, 6.7.2.2.2 or tbK.9, A.17,<br>tbK.5x1.6, K.6x1.6, K.7x1.6, 10<br>60601-1:14 8.5.5.1, 8.8.2, 8.8.3x1.6, 8.9.3.2,<br>8.9.3.4, 8.9.1.15, 8.9.1.7<br><br>IEC<br>60950-1 2nd Ed., +A1+A2 2.10.3.3,<br>2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 | -             | -              | 8.3              |



**Certificate:** 70202314

**Project:** 70202314

**Master Contract:** 205078

**Date Issued:** 2019-01-21

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|  |  |  | 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<br>61010-1 3 <sup>rd</sup> Ed+A1 6.7.1.3, 6.7.2.1 or tbK.1 to K.4, 6.7.2.2.1, 6.7.2.2.2 or tbK.9, A.17, tbK.5x1.6, K.6x1.6, K.7x1.6, 10<br>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<br><br>EN<br>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<br>62368-1:2014/A11:2017 2.10.3.3, 2.10.4.2, 2.10.4.3, 2.10.5.4a, 2.10.11, 4.5.2, 5.2 |  |  |  |
|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|

where x is A, B or C for minimum output voltage. Z if used indicates the lead-free version. 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. The devices meet basic insulation requirements for 830Vrms and reinforced insulation requirements for 415Vrms for CSA 60950-1-07+A1+A2, CSA 62368-1-14, IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2, IEC 62368-1:2014 and EN60950-1:2006+A1+A12+A2 and EN62368-1:2014/A11:2017. (pollution degree 2, material group III)
2. For CSA 61010-1-12+A1 and IEC 61010-1 3<sup>rd</sup> Ed. the devices meet 600Vrms for basic insulation and 300V 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. The risk management process is not applicable to these clauses. (pollution degree 2, material group III)
3. For CSA 60601-1:14 and IEC60601-1 Ed.3+A1 for 2 MOPP for 250Vrms, 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.
4. Case material: material group II.
5. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
6. The creepage and clearance has been evaluated for altitudes ≤ 2000m, 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                     |

**Certificate:** 70202314

**Project:** 70202314

**Master Contract:** 205078

**Date Issued:** 2019-01-21

EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements  
EN 62368-1:2014/A11:2017 - Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)

Clauses 6.7.1.3, 6.7.2.1 or K.1 to K.4, 6.7.2.2.1, 6.7.2.2.2 or tbK.9, A.17, tbK.5x1.6, K.6x1.6, K.7x1.6, 10 of  
CAN/CSA C22.2 No. 61010-1-12, UPD1: 2015, UPD2: 2016, AMD1: 2018 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements (Tri-national standard, with UL 61010-1 Ed. 3 (2012), AMD1: 2018 and ANSI/ISA-61010-1 (82.02.01))

IEC 61010-1:2010 Ed. 3.1:2017 01 - 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  
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*

**Certificate:** 70202314

**Master Contract:** 205078 (205078)

*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>            |
|----------------|-------------|-------------------------------|
| 70202314       | 2019-01-21  | Original Component Acceptance |