



Certificate of Compliance

Certificate: 2731770

Master Contract: 205078 (205078)

Project: 70202316

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)
QSOP 16 RQ-16 ADuM3190xRQZ ADuM3190WxRQZ	2.5	105	CSA 14-18 tb35, 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 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 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	-	-	3.2 or 3.5



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			61010-1 3 rd 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 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 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			
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where x is a letter indicating speed grade and where Z, if used, indicates the lead-free version. Further suffix letters or digits differentiate shipping package formats.

Notes:

1. The devices meet basic insulation requirements for 320Vrms or 350Vrms depending on the creepage for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2 and IEC 60950-1 2nd Ed.+A1+A2 and CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2nd Ed. (pollution degree 2, material group III)
2. The devices meet reinforced insulation requirements for 148Vrms for CSA 60950-1-07+A1+A2, EN 60950-1:2006+A1+A12+A2 and IEC 60950-1 2nd Ed.+A1+A2 (pollution degree 2, material group III)
4. The devices meet reinforced insulation requirements for 150Vrms for CSA 62368-1-14, EN 62368-1:2014/A11:2017 and IEC 62368-1 2nd Ed. (pollution degree 2, material group III)
5. For CSA 61010-1-12+A1 and IEC 61010-1 3rd Ed. the devices meet 150Vrms for reinforced insulation and 300Vrms for basic 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. Case Material: Multiple mold compounds have been evaluated. All meet at least material group II.
7. Evaluated by thermal cycling and other tests.
8. The creepage and clearance has been evaluated for altitudes $\leq 2000\text{m}$, in pollution degree 2 and overvoltage category II. (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 2nd 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



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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))

and

IEC 61010-1:2010 Ed. 3.1:2017 01 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements



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

Project	Date	Description
70202316	2019-01-21	Addition of new moulding compound and leadframe and increased creepage
2731770	2014-11-10	Original Component Acceptance