



# Certificate of Compliance

**Certificate:** 2731769

**Master Contract:** 205078

**Project:** 2731769

**Date Issued:** November 10, 2014

**Issued to:** Analog Devices Inc.  
 804 Woburn St.  
 Wilmington, MA 01887-3462  
 USA  
**Attention:** Al McEvoy

*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 9073 30 - ELECTRONIC COMPONENTS – Optoisolators**

Component Acceptance of Optoisolator Like Magnetic Coupling Devices:

Device	Rating		Applicable Standards/Notices	Internal		External
	(k V)	(°C)		Creepage (mm)	Dist Thru (mm)	Creepage/ Clearance (mm)
SOIC16 RI						
ADuM4190xRIZ ADuM4190WxRIZ	5.0	125	CSA CA5A, 14-13, 60950-1-07+A1+A2 IEC 60950-1 2 <sup>nd</sup> Ed.+A1+A2 EN 60950-1:2006+A1+A12+A2 IEC 601-1 2 <sup>nd</sup> Ed., Clauses 8.5.5.1, 8.8.3, 8.9.1.15, 8.9.3.3 of	-	-	8.3



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Device	Rating		Applicable Standards/Notices	Internal		External
	(k V)	(°C)		Creepage (mm)	Dist Thru (mm)	
SOIC16 RI						
			CSA 60601-1:14 and IEC 60601-1 Ed. 3.1			

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. These devices meet basic insulation requirements for 800Vrms (1131Vp) for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and EN 60950-1:2006+A1+A12+A2. (pollution degree 2, material group III)
2. These devices meet reinforced insulation requirements for 400Vrms (565Vp) for CSA 60950-1-07+A1+A2 and IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 and EN 60950-1:2006+A1+A12+A2. (pollution degree 2, material group III)
3. These devices meet basic insulation requirements for 250Vrms for IEC 601-1 2<sup>nd</sup> Ed. (pollution degree 2, material group III)
4. For CSA 60601-1:14 and IEC60601-1Ed.3.1 for 2 MOPP for 250Vrms, these models meet clauses 8.5.5.1, 8.8.3, 8.9.1.15, and 8.9.3.3. The risk management process is not applicable to these clauses.
5. Case material CTI=600V, erosion depth 0.165mm. (meets material group I)
6. Evaluated by thermal cycling and other tests for a temperature rating of 125C.
7. The creepage and clearance has been evaluated for altitudes ≤ 2000m, in pollution degree 2 and overvoltage category II.

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**

Component Acceptance Notice 5A (CA 5A) - Announcement of Extension of the Component Acceptance Service for Optocouplers and Related Devices

- CAN/CSA-C22.2 No 14-13 - 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)
  - IEC 60950-1 2<sup>nd</sup> Ed.+A1+A2 - Information Technology Equipment - Safety - Part 1: General Requirements
  - IEC 601-1 (1988-12) - Medical Electrical Equipment - Part 1: General Requirements for Safety)
  - IEC 601-1-AM1 (1991-11) - Medical Electrical Equipment - Part 1: General Requirements for Safety)
  - IEC 601-1-AM2 (1995-03) - Medical Electrical Equipment - Part 1: General Requirements for Safety)
- Clauses 8.5.5.1, 8.8.3, 8.9.1.15 and 8.9.3.3 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
- and  
IEC60601-1 Ed.3.1:2012 - Medical Electrical Equipment Part 1: General requirements for basic safety and general performance
- EN 60950-1:2006+A1+A12+A2 - Information Technology Equipment - Safety - Part 1: General Requirements