



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx CSA 07.0001	issue No.:1	Certificate history: Issue No. 1 (2010-3-19) Issue No. 0 (2007-2-8)
Status:	Current		
Date of Issue:	2010-03-19	Page 1 of 4	
Applicant:	<b>Connection Technology Center, Inc</b> 7939 Rae Boulevard Victor, New York, USA 14564 <b>United States of America</b>		
Electrical Apparatus:	<b>Vibration Sensors, Series AC95x-xxxxx-x, AC96x-xxxxx-x, LP85x-xx-xxx, LP86x-xx-xxx, LP95x-xx-xxx and LP96x-xx-xxx (Refer to Schedule)</b>		
Optional accessory:			
Type of Protection:	<b>Ex ia IIC T3/T4; DIP A20 IP6X 150°C (T-Code =T3) or T105°C (T-Code = T4)</b>		
Marking:	<b>IECEx CSA07.0001</b> <b>Ex ia IIC T3/T4; DIP A20 IP6X 150°C (T-Code =T3) or T105°C (T-Code = T4)</b> <b>-40°C to +80°C (AC96x, LP8xx and LP9xx Series) or -54°C to +125°C (AC95x Series) or -40°C to +125°C (AC96x Series)</b> <b>AC95x, LP85x, and LP95x - Ui = 28VDC, li = 100mA, Pi = 1W, Ci = 70nF, Li = 51µH</b> <b>AC96x, LP86x and LP96x - Ui = 28VDC, li = 100mA, Pi = 1W, Ci = 0nF, Li = 0µH (when not provided with integral cable)</b> <b>AC96x, LP86x and LP96x - Ui = 28VDC, li = 100mA, Pi = 1W, Ci = 80.4nF, Li = 137.76µH (when provided with a maximum of 1640 feet (500m) of integral cable)</b>		
Approved for issue on behalf of the IECEx Certification Body:	Dave Adams		
Position:	Technical Advisor		
Signature: (for printed version)	_____		
Date:	_____		

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**CSA International**  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada  
and  
1707 - 94th Street  
Edmonton, AB T6N 1E6  
Canada





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Manufacturer: **Connection Technology Center, Inc**  
7939 Rae Boulevard  
Victor, New York, USA 14564  
**United States of America**

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2000</b> Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 61241-1-1 : 1999</b> Edition: 2	Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[CA/CSA/ExTR07.0004/01](#)

Quality Assessment Report:

[CA/CSA/QAR08.0011/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Vibration Sensor models AC95x-xxxxx-x, AC96x-xxxxx-x, LP85x-xx-xxx, LP86x-xx-xxx, LP95x-xx-xxx and LP96x-xx-xxx  
Ex ia IIC T3 (AC9xx Series); T4 (LP8xx & LP9xx Series)

AC95x, LP85x, and LP95x -  $U_i = 28\text{VDC}$ ,  $I_i = 100\text{mA}$ ,  $P_i = 1\text{W}$ ,  $C_i = 70\text{nF}$ ,  $L_i = 51\mu\text{H}$

AC96x, LP86x and LP96x -  $U_i = 28\text{VDC}$ ,  $I_i = 100\text{mA}$ ,  $P_i = 1\text{W}$ ,  $C_i = 0\text{nF}$ ,  $L_i = 0\mu\text{H}$  (when not provided with integral cable)

AC96x, LP86x and LP96x -  $U_i = 28\text{VDC}$ ,  $I_i = 100\text{mA}$ ,  $P_i = 1\text{W}$ ,  $C_i = 80.4\text{nF}$ ,  $L_i = 137.76\mu\text{H}$  (when provided with a maximum of 1640 feet (500m) of integral cable)

Ambient Temperature Range:  $-40^\circ\text{C}$  to  $+80^\circ\text{C}$  (AC96x, LP8xx and LP9xx Series) or  $-54^\circ\text{C}$  to  $+125^\circ\text{C}$  (AC95x Series) or  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$  (AC96x Series)

### CONDITIONS OF CERTIFICATION: NO



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 01 -

Update of IECEx CSA 07.0001 to include the following:

- Additional Transducer Sensors
- Included DIP ratings for the equipment
- Update to IEC60079-11:2006