



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

Certificate No.:	IECEx CSA 07.0009X	issue No.:0	Certificate history:.....
Status:	Current		
Date of Issue:	2007-12-27	Page 1 of 3	
Applicant:	Flowsolve Corporation 1350 North Mountain Springs Pky Springville, UT 84663-0903 United States of America		
Electrical Apparatus:	Limit Switch		
<i>Optional accessory:</i>			
Type of Protection:	Ex d		
Marking:	Ex d IIB T3/T4 IP65		
<i>Approved for issue on behalf of the IECEx Certification Body:</i>	CSA International		
<i>Position:</i>	Davey Li		
<i>Signature: (for printed version)</i>	_____		
<i>Date:</i>	_____		

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: **Flowsolve Corporation**
1350 North Mountain Springs Pky
Springville, UT 84663-0903
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:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-1 : 2003 Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
Edition: 5

*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/ExTR07.0013/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0005/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

AVIATOR II series

Ex d IIB T3/T4 IP65 Optional maximum ambient and temperature codes are listed below:

Maximum Ambient	Temperature Codes
60°C	T3
40°C	T4

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The following maximum constructional gaps are less than those required by table 2 of IEC 60079-1:2003:

Description	Type	Measured Gap Dimension (mm)	Maximum Required Gap Dimension (mm)
Flat Joint between cover and base	Flat	.038 mm	.20 mm
Between Shaft and Cover	cylindrical	.088mm Diametrical Clearance	.20 mm
Between Shaft and Base	cylindrical	.088mm Diametrical Clearance	.20 mm

2. The tensile strength of the fastening bolts are detailed below: (x4) Metric Hexagon Socket M8-6G, Tensile Strength: 671 N/mm²