



# 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 LCIE 12.0002X issue No.:1

Status: **Current**

Certificate history:  
Issue No. 1 (2015-11-9)  
Issue No. 0 (2012-8-30)

Date of Issue: **2015-11-09** Page 1 of 4

Applicant: **IMI Sensors, a PCB Piezotronics Div.**  
3425 Walden Avenue  
Depew, NY 14043  
**United States of America**

Electrical Apparatus: **Vibration sensors**  
Optional accessory: type EX611xxx/xxxxx

Type of Protection: **Ex ia**

Marking: **Ex ia IIC T6...T710°C Ga**  
IECEx LCIE 12.0002 X

Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

Date:

2015-11-09

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](#).

Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France

Documents relative to LCIE certification activities (Certificates, QARs,  
ExTRs) can be registered under the references "LCI" or "LCIE".



**LCIE**



# IECEX Certificate of Conformity

Certificate No.: IECEX LCIE 12.0002X

Date of Issue: 2015-11-09

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Manufacturer: **PCB Piezotronics**  
3425 Walden Avenue  
Depew, NY 14043  
**United States of America**

Additional Manufacturing location  
(s):

**PCB Piezotronics of  
North Carolina Inc.**  
10869 Hwy 903  
Halifax, NC 27839  
United States of America

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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*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:

FR/LCIE/ExTR12.0003/00

FR/LCIE/ExTR15.0107/00

#### Quality Assessment Report:

NL/DEK/QAR14.0004/01



# IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0002X

Date of Issue: 2015-11-09

Issue No.: 1

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## Schedule

### EQUIPMENT:

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

The apparatus is a vibration sensor, series high temperature sensor with integral cable and connector output. The vibration sensors provide a charge output when subjected to mechanical motion. The sensors have stainless steel housings.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be compatible as regard intrinsic safety rules (see drawing n°52744).

Ambient temperature of use : - 196°C to + 700°C.

Temperature classification : T6 at +80°C, T5 at +95 °C, T4 at +130°C, T3 at +190°C, T2 at +290°C, T1 at +440°C, T710°C at +700°C.



# IECEX Certificate of Conformity

Certificate No.: IECEx LCIE 12.0002X

Date of Issue: 2015-11-09

Issue No.: 1

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

### Issue 01 :

Modification of QAR

Addition of a manufacturing site

Modification of the applicant name



**Annex 01 to Certificate  
IECEX LCIE 12.0002 X issue 01**



**Marking :**

IMI Sensors

Address : ...

Type : EX611XXX/XXXXX <sup>(1)</sup>

Serial number : ...

Year of construction : ...

Ex ia IIC T6...T710°C Ga <sup>(2)</sup>

IECEX LCIE 12.0002 X

$U_i$  : 30V,  $I_i$  : 100mA,  $P_i$  : 0.7W,  $C_i$  : 3300pF,  $L_i$  : 30μH

<sup>(1)</sup> *completed by the model*

<sup>(2)</sup> *temperature sensor and cable side*

**Electrical parameters :**

$U_i$  : 30V,  $I_i$  : 100mA,  $P_i$  : 0.7W,  $C_i$  : 3300pF,  $L_i$  : 30μH



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx LCIE 12.0002X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2012-08-30** Page 1 of 3

Applicant: **IMI**  
3425 Walden Avenue  
Depew, NY 14043  
United States of America

Electrical Apparatus: **Vibration sensors type EX611xxx/xxxxx**  
Optional accessory:

Type of Protection: **ia**

Marking: **Ex ia IIC T6... T710°C Ga**

Approved for issue on behalf of the IECEx  
Certification Body:

Michel BRENON

Position:

Certification Officer

Signature:  
(for printed version)

  
\_\_\_\_\_  
August 28, 2012

Date:

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# IECEX Certificate of Conformity

Certificate No.: IECEx LCIE 12.0002X

Date of Issue: 2012-08-30

Issue No.: 0

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Manufacturer: **IMI**  
3425 Walden Avenue  
Depew, NY 14043  
**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:

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**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-11 : 2011-06** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0

*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:

[FR/LCIE/ExTR12.0003/00](#)

Quality Assessment Report:

[CA/CSA/QAR09.0018/00](#)

[CA/CSA/QAR09.0018/01](#)



# IECEx Certificate of Conformity

Certificate No.: IECEx LCIE 12.0002X

Date of Issue: 2012-08-30

Issue No.: 0

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## Schedule

### EQUIPMENT:

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

The apparatus is a vibration sensor, series high temperature sensor with integral cable and connector output. The vibration sensors provide a charge output when subjected to mechanical motion. The sensors have stainless steel housings.

#### Marking :

IMI Address : ...

Type : EX611XXX/XXXXX (1)

Serial number : ... Year of construction : ...

Ex ia IIC T6...T710°C Ga (2)

IECEx LCIE 12.0002 X

$U_i \leq 30V$ ,  $I_i \leq 100mA$ ,  $P_i \leq 0,7W$ ,  $C_i \leq 3300pF$ ,  $L_i \leq 30\mu H$

(1) completed by the model

(2) temperature sensor and cable side

#### Electrical parameters :

$U_i \leq 30V$ ,  $I_i \leq 100mA$ ,  $P_i \leq 0,7W$ ,  $C_i \leq 3300pF$ ,  $L_i \leq 30\mu H$

### CONDITIONS OF CERTIFICATION: YES as shown below:

The apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be compatible as regard intrinsic safety rules (see drawing n°52744).

Ambient temperature of use : - 196°C to + 700°C.

Temperature classification : T6 at +80°C, T5 at +95°C, T4 at +130°C, T3 at +190°C, T2 at +290°C, T1 at +440°C, T710°C at +700°C.