

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx LCIE 12.0002X	issue No.:1	Certificate history: Issue No. 1 (2015-11-9)		
Status:	Current		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: Optional accessory:	Vibration sensors type EX611xxx/xxxxx				
Type of Protection:	Ex ia				
Marking:	Ex ia IIC T6…T710℃ Ga IECEx LCIE 12.0002 X				
Approved for issue on bel Certification Body:	half of the IECEx	Julien GAUTHIER			
Position:		Certification Officer			
Signature: (for printed version)		Ganthier	>		
Date:		2015-11-09			
 This certificate and sch This certificate is not tra The Status and authent 	edule may only be reproduce ansferable and remains the p licity of this certificate may be	ed in full. roperty of the issuing body. a verified by visiting the Official IEC	CEx 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 activites (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE". L C I E					

IEC.	ÎÊĈEx
------	-------

Certificate No.:

IECEx LCIE 12.0002X

Date of Issue:

Manufacturer:

2015-11-09

Issue No.: 1

Page 2 of 4

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
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

 Edition: 6.0
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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

Deter of Issue: 2015-11-09 Issue No.: 1 Page 3 of 4 UPMENT: Important and systems covered by this certificate are as follows: a apparatus is a vibration sensor, series high temperature sensor with integral cable and connector tput. The vibration sensor, series high temperature sensor with integral cable and connector tput. The vibration sensor, series high temperature sensor with integral cable and connector tput. The vibration sensor sprovide a charge output when subjected to mechanical motion. NUTIONS OF CERTIFICATION: YES as shown below: a apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be mpatible as regard intrinsic safety rules (see drawing n%2744). while temperature of use : - 196°C to + 700°C. mperature classification : T6 at +80°C, T5 at +95°C, T4 at +130°C, T3 at +190°C, T2 at +290°C, T1 at 40°C, T710°C at +700°C.		IECEx of Co	Certificate onformity
Date of issue: 2015-11-09 issue No.: 1 Page 3 of 4 Schedule DUPMENT: paparatus is a vibration sensor, series high temperature sensor with integral cable and connector itput. The vibration sensors provide a charge output when subjected to mechanical motion. be sensors have stainless steel housings. DNDITIONS OF CERTIFICATION: YES as shown below: the apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be impetitude as regard intrinsic safety rules (see drawing n52744). the imperature of use : -196°C to + 700°C. amperature classification : T6 at +80°C, T5 at +95°C, T4 at +130°C, T3 at +190°C, T2 at +290°C, T1 at 140°C, T710°C at +700°C.	Certificate No .:	IECEx LCIE 12.0002X	
Page 3 of 4 OUPMENT: guipment and systems covered by this certificate are as follows: he apparatus is a vibration sensor, series high temperature sensor with integral cable and connector uput. The vibration sensors provide a charge output when subjected to mechanical motion. he sensors have stainless stell housings. ONDITIONS OF CERTIFICATION: YES as shown below: he apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be ompatible as regard intrinsic safety rules (see drawing n 52744). mbient temperature of use : - 196°C to + 700°C. emperature 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.	Date of Issue:	2015-11-09	Issue No.: 1
Schedule OUIPMENT: quapterature sis a vibration sensor, series high temperature sensor with integral cable and connector uput. The vibration sensors provide a charge output when subjected to mechanical motion. he apparatus is a vibration sensor. sensors have stainless steel housings. ONDITIONS OF CERTIFICATION: YES as shown below: he apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be simpatible as regard intrinsic safety rules (see drawing n 52744). mbient temperature of use : - 196°C to + 700°C. emperature 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.			Page 3 of 4
QUIPMENT: quipment and systems covered by this certificate are as follows: he apparatus is a vibration sensor, series high temperature sensor with integral cable and connector uput. The vibration sensors provide a charge output when subjected to mechanical motion. he sensors have stainless steel housings. ONDITIONS OF CERTIFICATION: YES as shown below: he apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be simpatible as regard intrinsic safety rules (see drawing n 52744). mblent temperature of use : - 196°C to + 700°C. emperature 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.		Schedule	
DNDITIONS OF CERTIFICATION: YES as shown below: he apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be ompatible as regard intrinsic safety rules (see drawing n52744). mbient temperature of use : - 196°C to + 700°C. emperature 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.	QUIPMENT:	overed by this certificate are as follows:	
ONDITIONS OF CERTIFICATION: YES as shown below: he apparatus can be only connected to intrinsically safe certified equipment. These combinations shall be ompatible as regard intrinsic safety rules (see drawing n52744). mbient temperature of use : - 196℃ to + 700℃. emperature classification : T6 at +80℃, T5 at +95 ℃, T4 at +130℃, T3 at +190℃, T2 at +290℃, T1 at 440℃, T710℃ at +700℃.	utput.The vibration ser he sensors have stain	isors provide a charge output when sub less steel housings.	jected to mechanical motion.
mbient temperature of use : - 196℃ to + 700℃. emperature classification : T6 at +80℃, T5 at +95 ℃, T4 at +130℃, T3 at +190℃, T2 at +290℃, T1 at 440℃, T710℃ at +700℃.	ONDITIONS OF CERTII he apparatus can be c ompatible as regard in	FICATION: YES as shown below: Inly connected to intrinsically safe certific trinsic safety rules (see drawing n 52744	ed equipment. These combinations shall be l).
	mbient temperature of emperature classificati 440℃, T710℃ at +700	ົuse : - 196℃ to + 700℃. on : T6 at +80℃, T5 at +95 ℃, T4 at +1 ℃.	30℃, T3 at +190℃, T2 at +290℃, T1 at
,			
,			
	,		



Certificate No .:

IECEx LCIE 12.0002X

Date of Issue:

2015-11-09

Issue No.: 1

Page 4 of 4

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/XXXX ⁽¹⁾ Serial number : ... Year of construction : ... Ex ia IIC T6...T710°C Ga ⁽²⁾ IECEx LCIE 12.0002 X U_i : 30V, I_i : 100mA, P_i : 0.7W, C_i : 3300pF, L_i : 30µH

(1) completed by the model
 (2) temperature sensor and cable side

Electrical parameters :

*U*_i : 30V, *I*_i : 100mA, *P*_i : 0.7W, *C*_i : 3300pF, *L*_i : 30μH

Page 1 of 1 This Annex is valid only in combination with certificate mentioned above and may only be reproduced in its entirety and without any change. CERT-ATEX-FORM 14 Rev. 00



INTERN IEC Ce	ATIONAL ELEC ertification Scher for rules and details of th	TROTECHNICAL C me for Explosive A le IECEx Scheme visit www.iecex	COMMISSION tmospheres K.com
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 Ameri	ica	
Electrical Apparatus: Optional accessory:	Vibration sensors type E	X611xxx/xxxxx	
Type of Protection:	ia		
Marking:	Ex ia IIC T6T710°C G	а	
Approved for issue on be Certification Body:	half of the IECEx	Michel BRENON	
Position:		Certification Officer	
Signature: (for printed version)		An	4
Date:		August 28 2017	
 This certificate and sch This certificate is not transmission The Status and authen 	edule may only be reproduce ansferable and remains the p ticity of this certificate may be	ed in full. property of the issuing body. e verified by visiting the Official I	ECEx Website.
Certificate issued by: Laboratoire Cen 33 A FR-9 Documents relative t QARs, ExTRs) can be	tral des Industries Electriq venue du General Leclerc 2260 Fontenay-aux-Roses France o LCIE certification activite e registered under the refer "LCIE".	ues (LCIE) es (Certificates, rences "LCI" or	L C I E



Certificate No.:

IECEx LCIE 12.0002X

Date of Issue:

2012-08-30

Issue No.: 0 Page 2 of 3

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:

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
 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

 06
 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



Certificate No .:

IECEx LCIE 12.0002X

Date of Issue:

2012-08-30

Issue No.: 0

Page 3 of 3

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 Ui \leq 30V, Ii \leq 100mA, Pi \leq 0,7W, Ci \leq 3300pF, Li \leq 30µH (1)completed by the model (2)temperature sensor and cable side

Electrical parameters : Ui ≤ 30V, Ii ≤ 100mA, Pi ≤ 0,7W, Ci ≤ 3300pF, Li ≤ 30µH

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.