



# 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 BAS 17.0054X Issue No: 0 Certificate history:  
Status: **Current** Page 1 of 3 Issue No. 0 (2017-05-04)  
Date of Issue: **2017-05-04**  
Applicant: **Hansford Sensors Ltd**  
Artisan  
Hillbottom Road  
Sands Industrial Estate  
Bucks  
HP12 4HJ  
United Kingdom  
Equipment: **HS-100IC3 Series Accelerometer**  
Optional accessory:  
Type of Protection: **Intrinsic Safety.**  
Marking: **Ex ic IIC T4 Gc -55°C ≤ Ta ≤ +110°C**

Approved for issue on behalf of the IECEx  
Certification Body:

R S Sincalir

PPDS/REAVLEY

Position:

Technical Manager

Signature:  
(for printed version)

Date:

*[Signature]*  
5/5/17

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://Official IECEx Website).

Certificate issued by:

**SGS Baseefa Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire, SK17 9RZ**  
**United Kingdom**





# IECEx Certificate of Conformity

Certificate No: IECEx BAS 17.0054X

Issue No: 0

Date of Issue: **2017-05-04**

Page 2 of 3

Manufacturer: **Hansford Sensors Ltd**  
Artisan  
Hillbottom Road  
Sands Industrial Estate  
Bucks  
HP12 4HJ  
**United Kingdom**

Additional 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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**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:

[GB/BAS/ExTR17.0094/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0040/06](#)



# IECEx Certificate of Conformity

Certificate No: IECEx BAS 17.0054X

Issue No: 0

Date of Issue: 2017-05-04

Page 3 of 3

## Schedule

### EQUIPMENT:

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

The HS-100IC3 Series Accelerometer is designed to measure acceleration, shock or vibration by converting the signal generated by the compression of a Piezo Electric Crystal by a given seismic mass and outputting a broadband ac signal to the monitoring equipment.

The accelerometer comprises a piezo electric crystal connected to a signal conditioning board all contained within a fully welded stainless steel enclosure.

Electrical connections are made to the apparatus either via a connector or via an integral cable.

The equipment has the following terminal parameters:

Connector Only	10m of cable	92m of cable
Ui = 25.2V	Ui = 25.2V	Ui = 25.2V
Ii = 146mA	Ii = 146mA	Ii = 146mA
Pi = 0.92W	Pi = 0.92W	Pi = 0.92W
Ci = 1.0nF	Ci = 9.9nF	Ci = 83nF
Li = 0μH	Li = 7.1μH	Li = 66μH

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When fitted with an integral cable, the flying lead terminations must be afforded a degree of protection of at least IP20.