



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 BAS 05.0031X** issue No.:3

Status: **Current**

Date of Issue: **2011-04-12**

Page 1 of 4

Certificate history:
Issue No. 3 (2011-4-12)
Issue No. 2 (2009-6-5)
Issue No. 1 (2005-11-10)

Applicant: **Don Electronics Limited**
Westfield Industrial Estate
Kirk Lane
Yeadon
Leeds
LS19 7LX
United Kingdom

Electrical Apparatus: **Motion Alignment Sensor Type WDA3**
Optional accessory:

Type of Protection: **Enclosure**

Marking: **IECEX BAS 05.0031X**
DIP DIP A20 TA120°C IP66 -20°C < ta < +50°C

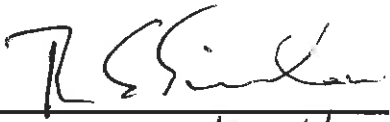
*Approved for issue on behalf of the IECEx
Certification Body:*

R S Sinclair

Position:

Managing Director

*Signature:
(for printed version)*


12-4-11

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:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2011-04-12

Issue No.: 3

Page 2 of 4

Manufacturer: **Don Electronics Limited**
Westfield Industrial Estate
Kirk Lane
Yeadon
Leeds
LS19 7LX
United Kingdom

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 61241-1-1 : 1999 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
Edition: 2

*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

IECEX ATR:
UK/BAS/04/0835
GB/BAS/ExTR11.0026/00

File Reference:
04/0835
11/0052



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2011-04-12

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Wheat electronics Motion Alignment Sensor type WDA3 consists of an inductive sensor and control circuit encapsulated within a 1.5mm thick stainless steel enclosure. The enclosure is in the form of a cylinder $\varnothing 50\text{mm} \times 153\text{mm}$ long incorporating a $\varnothing 60\text{mm} \times 23\text{mm}$ long end plug at one end, and a stainless steel 1.5mm thick circular end cap at the other. The end plug has two small holes to allow access to a potentiometer for the adjustment of the sensitivity of the device and an LED which indicates motion detection. The potentiometer and the LED are recessed below the metal surface of the enclosure. The enclosure is filled with epoxy resin.

An integral cable is provided for connection to a 12-24V dc supply. An earth connection is provided to the inside of the enclosure by a spring clip for connection by the end user via one of the wires in the integral cable.

The maximum power supplied to the sensor circuit is controlled by a 160mA fuse, and two thermal fuses rated at 73°C. No components are located more than 24mm away from a thermal fuse.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The integral supply cable must be terminated in a suitably certified terminal box or in a safe area.



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2011-04-12

Issue No.: 3

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

Variation 3.1

To add minor drawing modifications

ExTR: **GB/BAS/ExTR11.0026/00**

File Reference: **11/0052**



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: IECEx BAS 05.0031X issue No.:2 Certificate history:
Issue No. 2 (2009-6-5)
Issue No. 1 (2005-11-10)

Status: **Current**

Date of Issue: **2009-06-05** Page 1 of 4

Applicant: **Don Electronics Limited**
Westfield Industrial Estate
Kirk Lane
Yeadon
Leeds
LS19 7LX
United Kingdom


Electrical Apparatus: **Motion Alignment Sensor Type WDA3**
Optional accessory:

Type of Protection: **Enclosure**

Marking: **IECEx BAS 05.0031X**
DIP DIP A20 TA120°C IP66 -20°C < ta < +50°C

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Managing Director**

Signature:
(for printed version) 

Date: 8-6-09

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Certificate issued by:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2009-06-05

Issue No.: 2

Page 2 of 4

Manufacturer: **Don Electronics Limited**
Westfield Industrial Estate
Kirk Lane
Yeadon
Leeds
LS19 7LX
United Kingdom

Manufacturing location(s):

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IEC 61241-1-1 : 1999 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
Edition: 2

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

IECEx ATR:
UK/BAS/04/0835

File Reference:
04/0835



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2009-06-05

Issue No.: 2

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Wheat electronics Motion Alignment Sensor type WDA3 consists of an inductive sensor and control circuit encapsulated within a 1.5mm thick stainless steel enclosure. The enclosure is in the form of a cylinder $\varnothing 50\text{mm} \times 153\text{mm}$ long incorporating a $\varnothing 60\text{mm} \times 23\text{mm}$ long end plug at one end, and a stainless steel 1.5mm thick circular end cap at the other. The end plug has two small holes to allow access to a potentiometer for the adjustment of the sensitivity of the device and an LED which indicates motion detection. The potentiometer and the LED are recessed below the metal surface of the enclosure. The enclosure is filled with epoxy resin.

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The maximum power supplied to the sensor circuit is controlled by a 160mA fuse, and two thermal fuses rated at 73°C. No components are located more than 24mm away from a thermal fuse.

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IECEx Certificate of Conformity

Certificate No.: IECEx BAS 05.0031X

Date of Issue: 2009-06-05

Issue No.: 2

Page 4 of 4

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

Variation 2.1

This document permits existing information (for example on Schedule Drawings) to be replaced by the revised certificate holders name and address. No other changes may be made to the certified design



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
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Certificate No.: **IECEX BAS 05.0031X** Issue No.: **1**

Status: **Current**

Date of issue: **2005-11-10** Page **1** of **4**

Applicant: **Wheat Electronics Limited**
Unit 4
108 Hookstone Chase
Harrogate
North Yorkshire
HG2 7HS
United Kingdom

Electrical Apparatus: **Motion Alignment Sensor Type WDA3**
Optional accessory:

Type of Protection: **Enclosure**

Marking: **IECEX BAS 05.0031X**
DIP DIP A20 TA120°C IP66 -20°C < ta < +50°C


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)


16-11-05

Date:

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Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0031X**

Date of Issue: **2005-11-10**

Issue No.: **1**

Page **2** of **4**

Manufacturer: **Wheat Electronics Limited**
Unit 4
108 Hookstone Chase
Harrogate
North Yorkshire
HG2 7HS
United Kingdom

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 61241-1-1 : 1999
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

IECEX ATR:

UK/BAS/04/0835

File Reference:

04/0835



IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 05.0031X**

Date of Issue: **2005-11-10**

Issue No.: **1**

Page **3** of **4**

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Wheat electronics Motion Alignment Sensor type WDA3 consists of an inductive sensor and control circuit encapsulated within a 1.5mm thick stainless steel enclosure. The enclosure is in the form of a cylinder $\varnothing 50\text{mm} \times 153\text{mm}$ long incorporating a $\varnothing 60\text{mm} \times 23\text{mm}$ long end plug at one end, and a stainless steel 1.5mm thick circular end cap at the other. The end plug has two small holes to allow access to a potentiometer for the adjustment of the sensitivity of the device and an LED which indicates motion detection. The potentiometer and the LED are recessed below the metal surface of the enclosure. The enclosure is filled with epoxy resin.

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CONDITIONS OF CERTIFICATION: YES as shown below:

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IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 05.0031X**

Date of Issue: **2005-11-10**

Issue No.: **1**

Page **4** of **4**

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

Variation 1.1

To permit the use of an alternative black encapsulant>

IECEx ATR:
UK/BAS/05/0630

File Reference:
04/0836

Annexe:



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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Certificate No.: **IECEX BAS 05.0031X** Issue No.: **0**

Status: **Current**

Date of Issue: **2005-07-01** Page 1 of 3

Applicant: **Wheat Electronics Limited**
Unit 4
108 Hookstone Chase
Harrogate
North Yorkshire
HG2 7HS
United Kingdom

Electrical Apparatus: **Motion Alignment Sensor Type WDA3**
Optional accessory:

Type of Protection: **Enclosure**

Marking: **IECEX BAS 05.0031X**
DIP DIP A20 TA120°C IP66 -20°C < ta < +50°C

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Managing Director

Signature:
(for printed version)

Date:

6-7-05

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United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 05.0031X**

Date of Issue: **2005-07-01**

Issue No.: **0**

Page 2 of 3

Manufacturer: **Wheat Electronics Limited**
 Unit 4
 108 Hookstone Chase
 Harrogate
 North Yorkshire
 HG2 7HS
 United Kingdom

Manufacturing location(s):

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STANDARDS:

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IEC 61241-1-1 : 1999 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
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UK/BAS/04/0835

File Reference:
04/0835



IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 05.0031X**

Date of Issue: **2005-07-01**

Issue No.: **0**

Page **3** of **3**

Schedule

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CONDITIONS OF CERTIFICATION: YES as shown below:

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Annexe: