



**1 SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

**3 Supplementary EC - Type Examination Certificate Number: Baseefa05ATEX0088X/2**

**4 Equipment or Protective System: Motion Alignment Sensor Type WDA3**

**5 Manufacturer: Don Electronics Limited**

**6 Address: Westfield Industrial Estate, Kirk Lane, Yeadon, Leeds, LS19 7LX**

**7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa05ATEX0088X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.**

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 4340

Project File No. 11/0052

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa**

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Baseefa is a trading name of Baseefa Ltd  
Registered in England No. 4305578. Registered address as above.

A handwritten signature in black ink, appearing to read "R S Sinclair".

R S SINCLAIR

DIRECTOR  
On behalf of  
Baseefa



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## Schedule

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Certificate Number Baseefa05ATEX0088X/2

15 **Description of the variation to the Equipment or Protective System**

### Variation 2.1

To add minor drawing modifications.

16 **Report Number**

GB/BAS/ExTR11.0026/00

17 **Special Conditions for Safe Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
WE2005839-4	1	07/12/10	WDA3V34 serial number label

This drawing is common to Baseefa05ATEX0089X, IECEx BAS 05.0032x and held on IECEx BAS 05.0031X



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**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

**3 Supplementary EC - Type Examination Certificate Number: Baseefa05ATEX0088X/1**

**4 Equipment or Protective System: Motion Alignment Sensor Type WDA3**

**5 Manufacturer: Wheat Electronics Limited**

**6 Address: Unit 4, 108 Hookstone Chase, Harrogate, North Yorkshire, HG2 7HS**

**7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa04ATEX0088X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.**

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Baseefa Customer Reference No. 4340

Project File No. 05/0630

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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

14

Certificate Number Baseefa05ATEX0088X/1

15 **Description of the variation to the Equipment or Protective System**

### Variation 1.1

To allow the use of an alternative black encapsulant.

16 **Report Number**

05(C)0630

17 **Special Conditions for Safe Use**

None additional to those listed previously.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Issue	Date	Description
*WE2005839-1	2	14/09/05	General arrangement

\*This drawing is held on IECEx BAS 05.0031X (Zone 20), and common to IECEx BAS 05.0032X (Zone 21), Baseefa05ATEX0088X (Cat1) & Baseefa05ATEX0089X (Cat2)



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa05ATEX0088X**

4 Equipment or Protective System: **MOTION ALIGNMENT SENSOR TYPE WDA3**

5 Manufacturer: **WHEAT ELECTRONICS LIMITED**

6 Address: **Unit 4, 108 Hookstone Chase, Harrogate, North Yorkshire, HG2 7HS**

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd. Notified body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. 04(C)0835

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50281-1-1: 1998 + Amd. 1**

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

**(Ex) II 1D T120°C T<sub>amb</sub> -20°C to 50°C**

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. 4340

Project File No. 04/0835

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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## Schedule

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Certificate Number Baseefa05ATEX0089X

### 15 Description of Equipment or Protective System

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.

### 16 Report Number

04(C)0835

### 17 Special Conditions for Safe Use

1. The integral supply cable must be terminated in a suitable ATEX approved terminal box or in a safe area.

### 18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
Annex II - 1.3.2	Hazards arising from static electricity	04(C)0835, Clause 4

### 19 Drawings and Documents

Number	Issue	Date	Description
* WE2005839-1	1	27/04/05	General arrangement
* WE2005829-3	0	04/01/05	Design Schematic
* WE2005829-4	0	04/01/05	Serial number label
# WE2005829-6	0	09/05/05	ATEX (Cat2) & IECEx (Zone 21) Label

\* These drawings are held on IECEx BAS 05.0031X (Zone 20), and common to:  
IECEx BAS 05.0032X (Zone 21), Baseefa05ATEX0088X (Cat1) & Baseefa05ATEX0089X (Cat2)

# This drawing is held on IECEx BAS 05.0032X (Zone 21), and common to Baseefa05ATEX0089X (Cat2)