



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: **Baseefa05ATEX0069**

4 Equipment or Protective System: **Wolf Rechargeable Torch R-5X**

5 Manufacturer: **Wolf Safety Lamp Company Ltd**

6 Address: **Saxon Road Works, Sheffield, S8 0YA**

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)0229/1

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

EN 60079-0:2004 EN 50020:2002 EN61241-0:2004 EN 61241-1:2004

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 :

 See Schedule

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

Baseefa Customer Reference No. 1112

Project File No. 04/0229

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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Baseefa is a trading name of Baseefa (2001) Ltd
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.
Re-issued 4 April 2006

13

Schedule

14

Certificate Number Baseefa05ATEX0069

15 Description of Equipment or Protective System

The Wolf Rechargeable Torch R-5X uses a single LED and a rechargeable battery with an electronic control circuit housed in a right-angled anti-static thermoplastic body. The rubber armoured lens ring and end cap retain either a coated polycarbonate or toughened glass lens.

The enclosure is sealed dust tight and provides an ingress protection level of IP67. The right-angle body arrangement incorporates a replaceable thermoplastic belt clip for hands-free use.

The Rechargeable Torch R-5X must be charged in a non-hazardous area with a charger having an output voltage not exceeding 14V: $U_o = 14V$

The two versions have the following codes:

R-5X : Ex II 2GD T85°C Ex ib IIC T4 tD A21 IP67 T85°C
($X < 5$)

R-5X : Ex II 1G Ex ia IIC T4 IP67
($X \geq 5$)

The model number may be followed by a further suffix for operational purposes.

16 Report Number

04(C)0229/1

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
R711	1	1	12/10/05	Wolf Rechargeable Torch – LED versions
R712	1	1	12/10/05	Wolf Rechargeable Torch – Single LED version
R811	1	1	12/10/05	Wolf Rechargeable Torch – Cassette – LED
R911	1	1	12/10/05	Rechargeable Torch – Control Circuit – Single LED
R912	1	1	12/10/05	Rechargeable Torch – Control Circuit – Single LED
R913	1	1	10/10/05	Wolf LED Rechargeable Torch – Battery protection Circuit
R916	1	1	12/10/05	Wolf Rechargeable Torch – Charger Circuit Board



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: **Baseefa05ATEX0069/1**

4 Equipment or Protective System: **Wolf Rechargeable Torch R-5X**

5 Manufacturer: **Wolf Safety Lamp Company Ltd**

6 Address: **Saxon Road Works, Sheffield, S8 0YA**

7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa05ATEX0068 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. **1112**

Project File No. **06/0901**

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 Baseefa05ATEX0069/1

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

Variation 1.1

To permit minor electrical and mechanical changes not affecting the original assessment and the addition of the protection code for Group I gassy mines.

R-5X (X<5): Ex ib I

R-5X (X>5): Ex ia I

16 **Report Number**

None.

17 **Special Conditions for Safe Use**

None

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	Sheet	Issue	Date	Description
R711	1 of 1	2	18/12/06	Wolf Rechargeable Torch – LED Version
R712	1 of 1	2	01/11/06	Wolf Rechargeable Torch – Single LED Version
R912	1 of 1	2	01/11/06	Rechargeable Torch – Control Circuit – Single LED
R913	1 of 1	2	14/12/06	Wolf Rechargeable Torch – Battery Protection Circuit

These drawings are common to and held with IECEX BAS 06.0001



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: **Baseefa05ATEX0069/2**
- 4 Equipment or Protective System: **Wolf Rechargeable Torch R-5X**
- 5 Manufacturer: **Wolf Safety Lamp Company Ltd**
- 6 Address: **Saxon Road Works, Sheffield, S9 0YA**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. Baseefa05ATEX0069 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. **1112**

Project File No. **07/0547**

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Schedule

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Certificate Number Baseefa05ATEX0069/2

15 Description of the variation to the Equipment or Protective System

Variation 2.1

To permit electrical and mechanical changes leading to a change of marking.

The R-5X (where $X < 5$) is now suitable for a marking of: Ex II 2GD T85°C Ex ib IIC T3/T4 tD A21 IP67 T85C.

The R-5X (where $X \geq 5$) is now suitable for a marking of: Ex II 1G Ex ia IIC T3/T4 IP67.

Secondary cell versions are considered to have a Temperature Class of T4.

Primary cell versions used with any R6/AA size zinc-chloride or zinc-carbon cells, or used with LR6/AA size batteries of type Duracell Plus, Duracell Procell, Energiser Ultra+ or Energiser Industrial are considered to have a Temperature Class of T4.

Primary cell versions used with any other LR6/AA sized alkaline-manganese cells that are not specified above are considered to have a Temperature Class of T3.

16 Report Number

07(C)0547

17 Special Conditions for Safe Use

None

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	Sheet	Issue	Date	Description
R-711	1	3	05/07/07	Wolf Rechargeable Torch – LED Versions
R-712 *	1	3	02/07/07	Wolf Rechargeable Torch – Single LED Version
R-840	1	1	05/07/07	Rechargeable Torch – Primary Cell Cassette
R-913	1	3	02/07/07	Wolf Rechargeable Torch – Battery Protection Circuit
R-940	1	1	05/07/07	Rechargeable Torch – Primary Cell Cassette Circuit

* Previous issues of this drawing are now considered obsolete.

These drawings are held with IECEX BAS06.0001/2.