

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 Issue 4**

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 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, 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. GB/BAS/ExTR10.0148/00

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


EN 60079-0:2006 EN 60079-11:2007 EN 61241-0:2006 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. 10/0414

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.

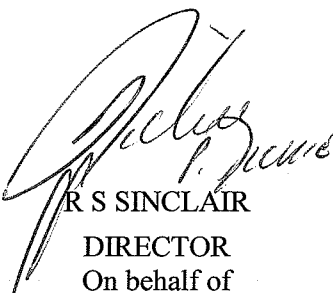
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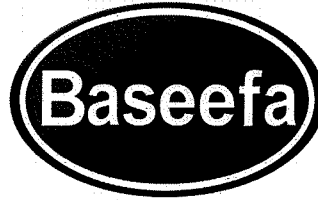
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa05ATEX0069 Issue 4

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-angled 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 (where $X < 5$): $\text{Ex I M2 / II 2GD T85°C Ex ib I/II C T3/T4 tD A21 IP67 T85°C}$

R-5X (where $X \geq 5$): $\text{Ex I M1 / II 1G Ex ia I/II C T3/T4 IP67}$

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

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

GB/BAS/ExTR/10/0148/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

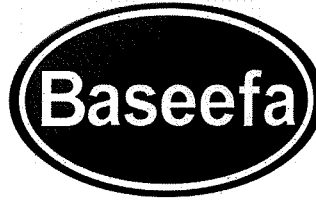
All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

New drawings submitted for this issue of certificate.

Number	Sheet	Issue	Date	Description
R-712	1	6	03/03/11	Wolf Rechargeable Torch – Single LED Version
R-912	1	4	28/04/11	Rechargeable Torch – Control Circuit – Single LED
R-913	1	4	24/05/10	Wolf Rechargeable Torch – Battery Protection Circuit

These drawings are held with IECEx BAS 06.0001 issue5.



Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
R-711	1	4	21/05/09	Wolf Rechargeable Torch – LED Versions
R-811	1	1	12/10/05	Wolf Rechargeable Torch – Cassette – LED
R-840	1	1	05/07/07	Rechargeable Torch – Primary Cell Cassette
R-911	1	1	12/10/05	Rechargeable Torch – Control Circuit – Single LED
R-916	1	1	12/10/05	Rechargeable Torch – Wolf Rechargeable Torch - Charger Circuit Board
R-940	1	1	05/07/07	Rechargeable Torch – Primary Cell Cassette Circuit

20 Certificate History

Certificate No.	Date	Comments
Baseefa05ATEX0069	20 March 2006	The release of the prime certificate. The associated test and assessment is documented in Test Reports 04(C)0229/1.
Baseefa05ATEX0069/1	12 January 2007	To permit minor electrical and mechanical changes not affecting the original assessment and the addition of the protection code for Group I gassy mines.
Baseefa05ATEX0069/2	14 September 2007	To permit electrical and mechanical changes leading to a change of marking.
Baseefa05ATEX0069 Issue 3	23 November 2009	To permit mechanical changes. This issue incorporates previously issued primary and supplementary certificates into one certificate and confirms that the current design meets the requirements of EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004.
Baseefa05ATEX0069 Issue 4	17 June 2011	To permit minor mechanical changes not affecting the result of the original assessment.

For drawings applicable to each issue, see original of that issue.