

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: **Baseefa05ATEX0069X – Issue 5**
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, 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's. **GB/BAS/ExTR15.0050/00**

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


EN 60079-0:2012+A11:2013 EN 60079-11:2012

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)

Baseefa Customer Reference No. **1112**

Project File No. **14/0965**

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R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa05ATEX0069X – Issue 5

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 R-5X has the following codes:

R-5X (where $X < 5$)

Ex I M2 / II 2GD

Ex ib I Mb / IIC T4 Gb (-20°C/-30°C/-40°C ≤ T_a ≤ +40°C)

Ex ib IIIB T200°C Db

R-5X (where $X ≥ 5$)

Ex I M1 / II 1GD

Ex ia I Ma / IIC T4 Ga (-20°C/-30°C/-40°C ≤ T_a ≤ +40°C)

Ex ia IIIB T200°C Da

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

Primary cell versions may use only the following cell types:- any R6/AA size zinc-chloride or zinc-carbon cells, or LR6/AA size batteries of type Duracell Plus, Duracell Procell, Duracell Industrial, Energizer Ultra+ or Energizer Industrial.

The lower certification temperature marked on each torch is dependent on the torch body material used.

16 Report Number

GB/BAS/ExTR15.0050/00

17 Specific Conditions of Use

1. Dust layers must be prevented from building up on the equipment.
2. The equipment must not be left energised and unattended in Zone 20 areas.

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-711	1	5	16/07/15	Wolf Rechargeable Torch – LED Versions
R-712	1	8	16/07/15	Wolf Rechargeable Torch – Single LED Version
R-840	1	2	21/07/15	Rechargeable Torch – Primary Cell Cassette

These drawings are held with IECEx BAS 06.0001X issue 6.

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
R-811	1	1	12/10/05	Wolf Rechargeable Torch – Cassette – LED
R-911	1	1	12/10/05	Rechargeable Torch – Control Circuit – Single LED
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
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

These drawings are held with IECEx BAS 06.0001X (various issues).

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 Report 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. The associated test and assessment is documented in 07(C)0547
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. The associated test and assessment is documented in GB/BAS/ExTR09.0196/00.
Baseefa05ATEX0069 Issue 4	17 June 2011	To permit minor mechanical changes not affecting the result of the existing certification. The associated test and assessment is documented in GB/BAS/ExTR10.0148/00
Baseefa05ATEX0069X Issue 5	3 Aug 2015	To permit:- - changes to the materials used for construction, - the dust certification to be defined as group IIIB, - revisions to the permitted battery types and associated temperature classes, - and to confirm that the current designs have been reviewed against the requirements of EN 60079-0:2012+A11:2013 and EN 60079-11:2012 in respect of any differences from EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004 and none of the differences affect this equipment. Also to add Conditions of use to the Certificate. The associated test and assessment is documented in GB/BAS/ExTR15.0050/00
For drawings applicable to each issue, see original of that issue.		