



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: **Baseefa06ATEX0084 Issue 4**
- 4 Equipment or Protective System: **Wolf Mini/Micro Torch Range**
- 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. **GB/BAS/ExTR10.0235/00**

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

EN 60079-0:2009 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. **10/0787**

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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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

14

Certificate Number Baseefa06ATEX0084 Issue 4

15 Description of Equipment or Protective System

The Wolf Mini / Micro Torch Range comprises 4 models using various primary batteries with either a Xenon bulb or LED(s) housed in a straight thermoplastic body which is incapable of storing a dangerous electrostatic charge. The lens end cap retains a transparent plastic lens. The straight body arrangement incorporates a thermoplastic pocket clip and an on/off switch.

The enclosure is sealed dust tight and provides an ingress protection level of IP67.

There are four versions which are coded as follows, the second numeral X may vary to denote sub-versions:

M-1X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T5 (T_a=+50°C) tD A20 IP67 T80°C
4 x LR44 cells
Single 5mm LED
Permitted cells: Ansmann, Duracell, Energizer, GP, Hi Watt, Maxell, Renata, Varta

M-2X Models:

⊕ I M2 / II 2GD T80°C
Ex ib I / IIC T4 tD A21 IP67 T80°C
2 x LR03 (AAA) cells
Xenon bulb
Permitted cells: Duracell Procell/Plus/Ultra M3, Energizer Industrial/Ultra+/Ultimate,
GP Alkaline/Super Alkaline, Panasonic Powermax/Ultra, Philips Powerlife, Varta High Energy

M-4X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T4 (T_a=+50°C) tD A20 IP67 T80°C
3 x LR1 (N) cells
3 x 5mm LED
Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta, Philips Powerlife

M-6X Models:

⊕ I M1 / II 1GD T80°C
Ex ia I / IIC T4 (T_a=+50°C) tD A20 IP67 T80°C
3 x LR1 (N) cells
1W LED
Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta, Philips Powerlife

Variation 4.1

To permit a revised LED mounting arrangement for the M-60, and a revised switch arrangement for the M-20, M-40 and M-60.

16 Report Number

GB/BAS/ExTR10.0235/00



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
M-720	1	4	28/09/10	Wolf M-20 Torch
M-740	1	4	29/09/10	Wolf M-40 Torch
M-760	1	5	27/09/10	Wolf M-60 Torch

These drawings are common to and held with IECEx BAS06.0023 issue 4.

Current drawings also associated with this certificate.

Number	Sheet	Issue	Date	Description
M-710	1	3	05/01/10	Wolf M-10 Torch

This drawing is common to and held with IECEx BAS06.0023 issue 2.

20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0084	20 October 2005	The release of the prime certificate. The associated test and assessment is documented in Test Reports 04(C)0229 & UK/BAS/04/0229/1.
Baseefa06ATEX0084/1	3 August 2006	To permit the Wolf Mini/Micro Torch range to be marked for Group I applications, to confirm the assessment of the Wolf Mini/Micro Torch range against the standards EN 61241-0:2006 and EN 61241-1:2004 for use in the presence of combustible dust., and to permit changes to the LED assembly in the M-6X range of torches.
Baseefa06ATEX0084 Issue 2	22 March 2010	This issue incorporates previously issued primary and supplementary certificates into one certificate, permits minor mechanical changes and confirms that the current design meets the requirements of EN 60079-0:2009, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004.
Baseefa06ATEX0084 Issue 3	7 June 2010	To permit a new LED type for the M-60.
Baseefa06ATEX0084 Issue 4	18 October 2010	To permit a revised LED mounting arrangement for the M-60, and a revised switch arrangement for the M-20, M-40 and M-60.
For drawings applicable to each issue, see original of that issue.		