



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx BAS 10.0023X Issue No: 3 Certificate history:  
Status: **Current** Issue No. 3 (2017-06-06)  
Date of Issue: **2017-06-06** Page 1 of 5 Issue No. 2 (2013-03-11)  
Applicant: **Wolf Safety Lamp Company Limited** Issue No. 1 (2011-11-10)  
Saxon Road Works Issue No. 0 (2010-06-16)  
Sheffield  
S8 0YA  
**United Kingdom**

Equipment: **HT-4xx Headtorch, HT-6xx Headtorch**  
*Optional accessory:*

Type of Protection: **Intrinsic Safety, Inherently Safe Optical Radiation.**

Marking:  
See equipment section.


Approved for issue on behalf of the IECEx  
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:  
(for printed version)

  
7 JUNE 2017.

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton, Derbyshire, SK17 9RZ  
United Kingdom





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Manufacturer: **Wolf Safety Lamp Company Limited**  
Saxon Road Works  
Sheffield  
S8 0YA  
United Kingdom

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-28 : 2015</b> Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

<a href="#">GB/BAS/ExTR10.0043/00</a>	<a href="#">GB/BAS/ExTR11.0232/00</a>	<a href="#">GB/BAS/ExTR11.0263/00</a>
<a href="#">GB/BAS/ExTR13.0063/00</a>	<a href="#">GB/BAS/ExTR17.0058/00</a>	

### Quality Assessment Report:

[GB/BAS/QAR06.0017/07](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Wolf HT-4xx & HT-6xx headtorch (xx denotes different variants) is a self-contained primary cell powered headtorch. It is moulded in high impact strength plastic, contains a single LED light source. HT-4xx models are powered by three LR03 alkaline cells, and HT-6xx models powered by three LR06 alkaline or three R6 zinc chloride cells. Cell types should not be mixed.

The HT-40x uses level of protection ib op is for Group I, Group IIC T4 and Group IIIB.  
The HT-45x uses level of protection ia op is for Group IIC T4 and Group IIIB.

For the HT-4xx only LR03 cells of the following types are permitted:- Industrial by Duracell, Duracell Procell, Duracell Plus, Duracell Ultra M3, Energizer Industrial, Energizer Ultra+, Energizer Ultimate, GP Alkaline, GP Super Alkaline, Panasonic Powermax, Panasonic Ultra, Philips Powerlife, Varta High Energy.

The HT-60x uses level of protection ib op is for Group I, Group IIC T3/T4, and Group IIIB.  
The HT-65x uses level of protection ia op is for Group I, Group IIC T3/T4, and Group IIIB.

For the HT-6xx in Group IIC T4 applications any R6 cells or LR06 cells of the following types may be used:- Industrial by Duracell, Duracell Procell, Duracell Plus, Energizer Industrial, Energizer Ultra+, Energizer EN91, Energizer E91.  
For the HT-6xx in Group I, Group IIC T3 or Group IIIB application any R6 or LR06 cells may be used.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

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.



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**EQUIPMENT (continued):**

**The equipment is marked:-**

**HT-40x models**

Ex ib op is I Mb/IIC T4 Gb  
Ex ib op is IIIB T125°C Db

**HT-45x models**

Ex ia op is IIC T4 Ga  
Ex ia op is IIIB T125°C Da

**HT-60x models**

Ex ib op is I Mb / IIC T4/T3 Gb  
Ex ib op is IIIB T155°C Db

**HT-65x models**

Ex ia op is I Ma / IIC T4/T3 Ga  
Ex ia op is IIIB T155°C Da



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

**Variation 3.1**

To permit changes to the body materials and to permit the addition of protection concept "op is". Two specific conditions of use have been added.

ExTR: GB/BAS/ExTR17.0058/00

File Reference: 16/00286