



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

Certificate No.: IECEx BAS 06.0001X issue No.: 6

Status: Current

Date of Issue: 2015-08-03 Page 1 of 4

Applicant: **Wolf Safety Lamp Company Ltd**
Saxon Road Works
Sheffield
S8 0YA
United Kingdom

Certificate history:

Issue No. 6 (2015-8-3)
Issue No. 5 (2011-6-21)
Issue No. 4 (2009-11-27)
Issue No. 3 (2007-12-10)
Issue No. 2 (2007-9-19)
Issue No. 1 (2007-1-24)

Electrical Apparatus: **Wolf Rechargeable Torch R-5X**
Optional accessory:

Type of Protection: **Intrinsic Safety, DIP**

Marking: R-5X (where $X < 5$):-
Ex ib I Mb / IIC T3/T4 Gb ($-20^{\circ}\text{C}/-30^{\circ}\text{C}/-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$)
Ex ib IIIB T200°C Db


R-5X (where $X \geq 5$):-
Ex ia I Ma / IIC T3/T4 Ga ($-20^{\circ}\text{C}/-30^{\circ}\text{C}/-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$)
Ex ia IIIB T200°C Da

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Managing Director

Signature:
(for printed version)

Date:


3 August 2015

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 Ltd**
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:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 6.0

*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:

GB/BAS/ExTR06.0024/00
GB/BAS/ExTR10.0148/00

GB/BAS/ExTR07.0107/00
GB/BAS/ExTR13.0080/00

GB/BAS/ExTR09.0196/00
GB/BAS/ExTR15.0050/00

Quality Assessment Report:

GB/BAS/QAR06.0017/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Wolf Rechargeable Torch R-5X uses a single LED and 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 R-5X is coded:

R-5X (X<5) : Ex ib I Mb/IIC T4 Gb Ex ib IIIB T200°C Db (-20°C/-30°C/-40°C ≤ Ta ≤ +40°C)

R-5X (X≥5) : Ex ia I Ma/IIC T4 Ga Ex ia IIIB T200°C Da (-20°C/-30°C/-40°C ≤ Ta ≤ +40°C)

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.

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

Variation 6.1

- changes to the materials used for construction
 - the dust certification to be defined as group IIIB
 - minor mechanical changes
 - revisions to the permitted battery types and associated temperature classes
- and to confirm that the current designs have been reviewed against the requirements of IEC 60079-0:2011 and EN 60079-11:2011 in respect of any differences from IEC 60079-0:2004, IEC 60079-11:2006, IEC 61241-0:2004 and IEC 61241-1:2004 and none of the differences affect this equipment.

ExTR: GB/BAS/ExTR15.0050/00

File Reference: 14/0965