



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 06.0023X | Issue No: 6 | Certificate history: |
| Status: | Current | Page 1 of 5 | Issue No. 6 (2017-05-02) |
| Date of Issue: | 2017-05-02 | | Issue No. 5 (2015-10-23) |
| Applicant: | Wolf Safety Lamp Company Ltd Saxon Road Works Sheffield S8 0YA United Kingdom | | Issue No. 4 (2010-10-25) |
| Equipment: | Wolf Mini / Micro Torch Range | | Issue No. 3 (2010-06-07) |
| Optional accessory: | | | Issue No. 2 (2010-03-22) |
| Type of Protection: | Intrinsic Safety Inherently safe Optical Radiation | | Issue No. 1 (2007-10-11) |
| Marking: | IECEX BAS 06.0023X For code, see schedule | | Issue No. 0 (2006-05-16) |

Approved for issue on behalf of the IECEX
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)

Date:

2-5-17

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 Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| IEC 60079-11 : 2011 Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-28 : 2015 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:

| | | |
|---------------------------------------|---------------------------------------|---------------------------------------|
| GB/BAS/ExTR06.0040/00 | GB/BAS/ExTR07.0073/00 | GB/BAS/ExTR07.0110/00 |
| GB/BAS/ExTR10.0055/00 | GB/BAS/ExTR10.0114/00 | GB/BAS/ExTR10.0235/00 |
| GB/BAS/ExTR15.0051/00 | GB/BAS/ExTR17.0052/00 | |

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 Mini / Micro Torch Range comprises 4 models using various primary batteries with either a xenon bulb or light emitting diode(s) housed in a straight thermoplastic body which is moulded in static dissipative plastic. 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.

For details of the four versions currently covered by this certificate, together with the relevant protection code, see page 4.

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):

There are four versions which are coded as follows: the 2nd numeral X may vary to denote sub-versions:

M-1X:

Ex ia op is I Ma / IIC T5 Ga (-40°C ≤ Ta ≤ +50°C)

Ex ia op is IIIB T95°C Da IP67

4 x LR44 cells

Single 5mm LED

Permitted cells: Ansmann, Duracell, Energizer, GP, Hi Watt, Maxell, Renata, Varta

M-2X:

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

2 x LR03 (AAA) cells

Xenon bulb

Permitted cells: Duracell Procell/Plus/Ultra M3/Industrial, Energizer Industrial/Ultra+/Ultimate, GP Alkaline/Super Alkaline, Panasonic Powermax/Ultra, Philips Powerlife, Varta High Energy

M-4X:

Ex ia op is I Ma / IIC T4 Ga (-40°C ≤ Ta ≤ +50°C)

Ex ia op is IIIB T125°C Da IP67

3 x LR1 (N) cells

3 x 5mm LED

Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta, Philips Powerlife

M-6X:

Ex ia op is I Ma / IIC T4 Ga (-40°C ≤ Ta ≤ +50°C)

Ex ia op is IIIB T130°C Da IP67

3 x LR1 (N) cells

1 watt LED

Permitted cells: Duracell, Energizer, GP, Maxell, Panasonic, Varta, Philips Powerlife



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

Variation 6.1

To update the certification to include IEC60079-28, and to permit minor mechanical changes. The range of LEDs which may be fitted is more tightly defined.

ExTR: **GB/BAS/ExTR17.0052/00**

File Reference: **17/0057**