



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 16.0076X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: 2016-09-21 Page 1 of 4

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

Equipment: **Wolf Handlamps H-******
Optional accessory:

Type of Protection: **Increased Safety, Intrinsic Safety, Inherently Safe Optical Radiation, Dust Protection by Enclosure**

Marking: The H-4DCA is marked:
Ex eb ib IIC T4 Gb (-10°C ≤ Ta ≤ +40°C) Ex tb IIIC T135°C Db

The H-3DCA is marked:
Ex ib op is IIC T4 Gb (-20°C ≤ Ta ≤ +40°C) Ex ib op is IIIB T170°C Db

The H-251ALED is marked:
Ex ib op is IIC T4 Gb (-10°C/-20°C ≤ Ta ≤ +40°C) Ex ib op is IIIB T170°C Db

Approved for issue on behalf of the IECEx Certification Body: R.Sinclair *PP DIBZEFANLEY*

Position: Technical Manager

Signature: *Brendley*
(for printed version)

Date: *28/9/16*

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
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition: 5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR15.0049/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0017/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Wolfliite Handlamps H-4DCA, H-3DCA & H-251ALED are portable handlamps with a moulded anti-static plastic case and lens ring, and a toughened glass lens. The lens is sealed to the lens ring and the lens ring is sealed to the case by O-rings/seals.

The lens ring screws on to the body and as an option may be locked in place by a socket head lock screw.

The switch slider mechanism contains a magnet which operates an internally hermetically sealed reed switch.

The markings and specific features of the H-4DCA, H-3DCA & H-251ALED are described on sheet 4.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Dust layers must be prevented from building up on the equipment.

2. The H-3DCA may only be fitted with the 3 D-cell battery cassette. The use of the 4 D-cell battery cassette in the H-3DCA is not permitted.



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EQUIPMENT(continued):

H-4DCA

The light source is a H-141 bulb (4.8V 0.5A nominal).

The H-4DCA is powered by four R20 or LR20 cells held in a removable cassette.

The permitted cell types are any R20 cell, or LR20 cells of the following types:- Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Duracell Procell, Duracell Industrial, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Pifco Optimax.

H-3DCA

The light source is a Wolf LED H-79 module.

The H-3DCA is powered by three R20 or LR20 cells held in a removable cassette.

The permitted cell types are any R20 cell, or LR20 cells of the following types:- Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Duracell Procell, Duracell Industrial, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Pifco Optimax.

H-251ALED

The lower ambient temperature of either -10°C or of -20°C will be marked on the label depending on certain build options.

The light source is a Wolf LED H-79 module.

Power is provided by means of a rechargeable battery pack containing two sealed lead acid cells and an active current limiting device. Two metal studs passing through the wall of the enclosure allow the torch to be placed on the charging apparatus with the connections aligning with the two studs.

The charging contacts are rated $U_m = 10V$ d.c.

The H-251ALED is designed to be charged from a Wolf C-251 charger while in safe areas.