



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX BAS 11.0116** Page 1 of 5 **Certificate history:**  
Status: **Current** Issue No: 5 **Issue 4 (2020-03-31)**  
Date of Issue: 2022-07-07 **Issue 3 (2017-02-09)**  
**Issue 2 (2016-01-18)**  
**Issue 1 (2013-10-14)**  
**Issue 0 (2012-01-30)**

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

Equipment: **Wolf M-8x Midi Torch, TR-6x Compact Right-Angled Torches, TS-6x Straight ATEX Compact Safety LED Torch**

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **M-8x (x < 5)** **M-8x (x ≥ 5)**  
**Ex ib I Mb** **Ex ia I Ma**  
**Ex ib IIB/IIC T3/T4 Gb** **Ex ia IIC T3/T4 Ga**  
**Ex ib IIIB T200°C Db** **Ex ib IIB T200°C Db**

**TR/TS-6x (x < 5)** **TR/TS-6x (x ≥ 5)**  
**Ex ib I Mb** **Ex ia I Ma**  
**Ex ib IIC T3/T4 Gb** **Ex ia IIC T3/T4 Ga**  
**Ex ib IIIB T200°C Db** **Ex ib IIB T200°C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

26/07/2022

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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**

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

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR11.0225/00](#)  
[GB/BAS/ExTR17.0033/00](#)

[GB/BAS/ExTR13.0190/00](#)  
[GB/BAS/ExTR19.0221/00](#)

[GB/BAS/ExTR15.0369/00](#)  
[GB/BAS/ExTR21.0216/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0017/10](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### M-8x

The Wolf M-8x (where x is used to denote different variants) Midi Torch range are self-contained primary cell powered torches that are moulded in high impact strength plastic, contain a single LED light source and are powered by four zinc carbon R6 or four alkaline manganese LR6 cells.

The M-8x ( $x < 5$ ) is designed using level of protection Ex ib for Group I, for Group IIB/IIC T3/T4 Zone 1, and for Group IIIB Zone 21, and can be marked:

Ex ib I Mb  
Ex ib IIB/IIC T3/T4 Gb  
Ex ib IIIB T200°C Db

The M-8x ( $x < 5$ ) ambient temperature range will be either  $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$  or  $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$  as marked on each torch.

The M-8x ( $x \geq 5$ ) is designed using level of protection Ex ia for Group I, for Group IIC T3/T4 Zone 0, and Ex ib for Group IIIB Zone 21, and can be marked:

Ex ia I Ma  
Ex ia IIC T3/T4 Ga  
Ex ib IIIB T200°C Db

The M-8x ( $x \geq 5$ ) ambient temperature range will be either  $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$  or  $-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$  as marked on each torch.

For Group II T4 applications R6 cells of any type or LR6 cells of the following types may be used:- Duracell Procell, Duracell Plus, Industrial by Duracell, Procell (grey), Energizer Industrial, Energizer Ultra+, Energizer EN91, Energizer E91.

For Group I, or Group II T3, or Group IIIB applications any R6 cells or any LR6 cells may be used.

Cell types should not be mixed.

Based on IEC 60079-28:2015 ISH1:2019, the M-8x torches are considered out of scope of EN 60079-28 and are not considered to create an ignition risk due to optical radiation.

**SPECIFIC CONDITIONS OF USE: NO**



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## Equipment (continued):

### TR-6x & TS-6x

The Wolf TR-6x (where x is used to denote different variants) Compact Right Angled Torch range and the TS-6x (where x is used to denote different variants) Compact Straight Torch range are self-contained primary cell powered torches that are moulded in high impact strength plastic, contain a single LED light source and are powered by four zinc carbon R6 or four alkaline manganese LR6 cells.

The TR/TS-6x ( $x < 5$ ) is designed using level of protection Ex ib for Group I, for Group IIC T3/T4 Zone 1, and for Group IIIB Zone 21, and can be marked:

Ex ib I Mb  
Ex ib IIC T3/T4 Gb  
Ex ib IIIB T200°C Db

The TR/TS-6x ( $x \geq 5$ ) is designed using level of protection Ex ia for Group I, for Group IIC T3/T4 Zone 0, and Ex ib for Group IIIB Zone 21, and can be marked:

Ex ia I Ma  
Ex ia IIC T3/T4 Ga  
Ex ib IIIB T200°C Db

The TR/TS-6x ambient temperature range is  $-30^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ .

For Group II T4 applications R6 cells of any type or LR6 cells of the following types may be used:- Duracell Procell, Duracell Plus, Industrial by Duracell, Procell (grey), Energizer Industrial, Energizer Ultra+, Energizer EN91, Energizer E91.

For Group I, or Group II T3, or Group IIIB applications any R6 cells or any LR6 cells may be used.

Cell types should not be mixed.

Based on IEC 60079-28:2015 ISH1:2019, the TR/TS-6x torches are considered out of scope of EN 60079-28 and are not considered to create an ignition risk due to optical radiation.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Variation 5.1**

To permit the introduction of the TS-6x Compact Straight Torch, a material name change, and marking changes associated with the issue of UKEX certification.

ExTR: **GB/BAS/ExTR21.0216/00**

File Reference: **21/0148**