

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination **BAS21UKEX0437**
Certificate Number:

4 Product: **TR-3X / TS-3X LED Torches**

5 Manufacturer: **Wolf Safety Lamp Company Limited**

6 Address: **Saxon Road Works, Sheffield, S8 0YA United Kingdom**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR22.0145/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0: 2018 EN 60079-11: 2012

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 (see Schedule)

SGS Baseefa Customer Reference No. **1112**

Project File No. **22/0337**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number BAS21UKEX0437

15 Description of Product

The Wolf Torches TR-3X and TS-3X LED torches are portable lights with a moulded plastic case and lens ring, and a toughened glass or plastic lens. The lens and metallised plastic reflector are held in place by the lens ring which screws on to the torch body. Effective sealing is ensured by a nitrile or TPA seal fitted around the outer rim of the reflector.

The torch is available in two different body styles. The TS-3X has a straight body where the lens and reflector must be removed in order to insert and remove the batteries. The TR-3X has a right angled body where the lens is at 90° orientation to the batteries. It has a removable end cap that is screwed onto the base of the torch body to allow insertion and removal of batteries. A nitrile “O” ring located in a groove in the torch body provides an effective seal.

The switch slider mechanism causes a rotating pinion passing through the torch body to force two metal contacts together.

Power is provided by means of two R20 or LR20 primary cells. The correct orientation of the batteries is clearly marked on the torch body. Certain models include low power indication features.

The TR-3X and TS-3X may be marked:

Model Reference	Permitted Cell Types	Markings
TS-3X (X ≥ 5)	R20 / LR20**	⊕ I M1/II 1G Ex ia I Ma / IIC T4 Ga (-20°C ≤ Ta ≤ +40°C) II 2D Ex ib IIIB T130°C Db
TR-3X (X ≥ 5)	R20 / LR20**	⊕ I M1/II 1G Ex ia I Ma / IIC T4 Ga (-30°C ≤ Ta ≤ +40°C) II 2D Ex ib IIIB T130°C Db
TS-3X (X ≥ 5)	R20 / LR20*	⊕ I M1/II 1G Ex ia I Ma / IIC T4 Ga (-20°C ≤ Ta ≤ +55°C) II 2D Ex ib IIIB T130°C Db
TR-3X (X ≥ 5)	R20 / LR20*	⊕ I M1/II 1G Ex ia I Ma / IIC T4 Ga (-30°C ≤ Ta ≤ +55°C) II 2D Ex ib IIIB T130°C Db
TS-3X (X ≤ 4)	R20 / LR20**	⊕ I M2/II 2GD Ex ib I Mb / IIC T4 Gb (-20°C ≤ Ta ≤ +40°C) Ex ib IIIB T130°C Db
TR-3X (X ≤ 4)	R20 / LR20**	⊕ I M2/II 2GD Ex ib I Mb / IIC T4 Gb (-30°C ≤ Ta ≤ +40°C) Ex ib IIIB T130°C Db
TS-3X (X ≤ 4)	R20 / LR20*	⊕ I M2/II 2GD Ex ib I Mb / IIC T4 Gb (-20°C ≤ Ta ≤ +55°C) Ex ib IIIB T130°C Db
TR-3X (X ≤ 4)	R20 / LR20*	⊕ I M2/II 2GD Ex ib I Mb / IIC T4 Gb (-30°C ≤ Ta ≤ +55°C) Ex ib IIIB T130°C Db

The following cells are permitted:

LR20* - Duracell Ultra, Energizer Alkaline, Energizer Industrial, Eveready Gold. These cells may be used in ambient temperatures up to +55°C.

LR20** - Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Duracell Procell, Duracell Industrial, Procell (grey), Procell Constant, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Duracell Procell, Pifco Optimax. These cells may be used in ambient temperatures up to +40°C.

R20 - Any make and model of cell may be used. These cells may be used in ambient temperatures up to +55°C.

Group I marking may be omitted from Zone 1 models.

16 Report Number

GB/BAS/ExTR22.0145/00

17 Specific Conditions of Use

None.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
TP-735	1	3	17/05/21	Wolf - 2 Cell - Right Angle LED TR-3X
TP-736	1	3	28/06/21	Wolf - 2 Cell - Straight LED TS-3X
TP-924	1	3	22/08/22	TR/TS-30/35 - Approval Code Options.

For all other drawings see Baseefa07ATEX0091 Issue 6.

The above drawings are common to Baseefa07ATEX0091 Issue 6 and IECEx BAS 06.0089 Issue 7.