1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3	EU - Type Examination Certificate Number:	**Baseefa11ATEX0236 – Issue 5**
4	Product:	**Wolf M-8x Midi Torch, TR-6x & TS-6x Compact Torches**
5	Manufacturer:	**Wolf Safety Lamp Company Limited**
6	Address:	**Saxon Road Works, Sheffield, S8 0YA**

7 This re-issued certificate extends EU Type Examination Certificate No. Baseefa11ATEX0236 to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive 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:

Ex (See Schedule)

SGS Fimko Oy Customer Reference No. **1112** Project File No. **21/0148**

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13 # Schedule

14 ## Certificate Number Baseefa11ATEX0236 – Issue 5

15 Description of Product

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:

Ⓔx I M2/II 2GD
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°C ≤ T_a ≤+40°C or -40°C ≤ T_a ≤+40°C as marked on each torch.

The M-8x (x ≥ 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:

Ⓔx I M1/II 1G 2D
Ex ia I Ma
Ex ia IIC T3/T4 Ga
Ex ib IIIB T200°C Db

The M-8x (x ≥ 5) ambient temperature range will be either -20°C ≤ T_a ≤+40°C or -40°C ≤ T_a ≤+40°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 as latest technical knowledge, 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.

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:

Ⓔx I M2/II 2GD
Ex ib I Mb
Ex ib IIC T3/T4 Gb
Ex ib IIIB T200°C Db

The TR/TS-6x (x ≥ 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⟩ I M1/II 1G 2D
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°C ≤ T_a ≤+40°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 as latest technical knowledge, 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.

16 Report Number

See Certificate History.

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
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
M-780	1 to 3	6	22/04/22	M-80/85 Midi Torch - GA
TR-760	1 to 3	02	05/04/2022	TR-6X General Assembly
TR-960	1 to 3	02	01/04/2022	TR-6X Torch 2W Circuit & Components
TR-961	1 to 3	02	01/04/2022	TR-6X Torch 3W Circuit & Components
TS-760	1 to 3	01	05/04/2022	TS-6X General Assembly
TS-960	1 to 3	01	01/04/2022	TS-6X Torch 2W Circuit & Components
TS-961	1 to 3	01	01/04/2022	TS-6X Torch 3W Circuit & Components

These drawings are held with IECEx BAS 11.0116 and are common to BAS21UKEX0432.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
M-980	1	3	02/03/20	Wolf M-80 Midi Torch - PCBs, Circuit & Components

This drawing is held with IECEx BAS 11.0116 and is common to BAS21UKEX0432.

20 Certificate History

Certificate No.	Date	Comments
Baseefa11ATEX0236	30 January 2012	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR11.0255/00 for project 09/0813
Baseefa11ATEX0236 Issue 1	7 September 2013	This issue of the certificate confirms the addition of protection against Group IIIB dust, and incorporates previously issued primary & supplementary certificates into one certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR13.0190/00 for project 12/0705.
Baseefa11ATEX0236X Issue 2	13 January 2016	This issue of the certificate permits the use of new materials, permits a wider certification temperature range for some models, and adds protection for group IIC for some models. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR15.0369/00 for project15/0466.
Baseefa11ATEX0236X Issue 3	9 February 2017	This issue of the certificate confirms the addition of protection concept "op is". The associated test and assessment is documented in Test Report No. GB/BAS/ExTR17.0033/00 for project 17/0056.
Baseefa11ATEX0236 Issue 4	31 March 2020	This issue of the certificate permits the addition of the TR-6x Right Angle Torch, permits marking changes to the M-8x, confirms the torches are outside the scope of EN 60079-28:2015+ISH1:2019, and confirms the assessment of the equipment against the later standard EN IEC 60079-0:2018. The “X” suffix has been removed. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR19.0221/00 for Project 19/0290.
Baseefa11ATEX0236 Issue 5	29 June 2022	This issue permits introduction of the TS-6x, a material name change, and marking changes associated with the issue of UKEX certification. See report GB/BAS/ExTR21.0216/00 for project 21/0148.
For drawings applicable to each issue, see original of that issue.		