

EU - TYPE EXAMINATION CERTIFICATE

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

- 1 EU - Type Examination Certificate Number: **SGS21ATEX0124X – Issue 1**
- 2 Product: **RAZOR 60160/RAZOR FSL 60170 Flashlights**
- 3 Manufacturer: **Koehler-Bright Star**
- 4 Address: **380 Stewart Road, Hanover Twp, PA 18706, United States of America**
- 5 This re-issued certificate extends EU Type Examination Certificate No. **SGS21ATEX0124** 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.
- 6 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.
- 7 The examination and test results are recorded in confidential Report No. **See Certificate History**
- 8 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-28:2015
except in respect of those requirements listed at item 18 of the Schedule.
- 9 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.
- 10 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.
- 11 The marking of the product shall include the following :
- 12 **Ex II 1 G Ex ia op is IIC T2 Ga**

SGS Fimko Oy Customer Reference No. **7128**

Project File No. **23/0250**

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Schedule

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Certificate Number SGS21ATEX0124X – Issue 1

15 Description of Product

RAZOR 60160 and RAZOR FSL 60170 Flashlights are powered by 3 x 1.5V AA cells in series. The permitted Alkaline cell types that may be used are marked on the body of the flashlight: Duracell (MN1500) LR6; Energizer Alkaline LR06; Rayovac AA LR06; KA2500 cells manufactured by KBS Prime Power Solutions and KA2600 cells manufactured by KBS Prime Power Solutions. All cells used within the product must be of the same cell type/manufacturer.

RAZOR 60160 operates with one spotlight and the RAZOR FSL 60170 has a side light and a spotlight. The unit is cylindrical in shape with approximately 18cm in length and 4.5cm round. The irradiated area of the light source or the lens is effectively around 1000mm².

16 Report Number

See Certificate History.

17 Specific Conditions of Use

1. Replace batteries in an atmosphere known to be non-hazardous.
2. Do not open equipment in a hazardous area.
3. Do not mix old batteries with new batteries or mix batteries from different manufactures.
4. Replace batteries only with the following battery models/types. KBS Power Solutions, AA, Models KA2500 or KA2600; Duracell, AA, Alkaline model MN1500; Rayovac High Energy LR6 or Energizer, AA, Alkaline model E91.

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
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
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
10B-2239	1 to 2	C	04/11/23	RAZOR
10B-2240	1 to 2	C	04/11/23	RAZOR FSL

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
3B-2241	1 of 3	--	10/20/2020	SWITCH/CONTROL BOARD ASSEMBLY MODEL 60160
3B-2241	2 of 3	--	10/20/2020	MAIN LED PCB ASSEMBLY MODEL 60160
3B-2241	3 of 3	--	10/20/2020	SCHEMATIC MODEL 60160
3B-2242	1 of 4	--	10/20/2020	SWITCH/CONTROL BOARD ASSEMBLY MODEL 60170
3B-2242	2 of 4	--	10/20/2020	MAIN LED PCB ASSEMBLY MODEL 60170
3B-2242	3 of 4	--	10/20/2020	DOWNLIGHT PCB ASSEMBLY MODEL 60170
3B-2242	4 of 4	--	10/20/2020	SCHEMATIC MODEL 60170

These drawings are common to, and held with, IECEx BAS 21.0042X and BAS21UKEX0609X.

20 Certificate History

Certificate No.	Date	Comments
SGS21ATEX0124	03 August 2021	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0:2018, EN 60079-11:2012 and EN 60079-28:2015 is documented in IECEx Test Report No. GB/BAS/ExTR21.0134/00 and held with Project No. 21/0512.
SGS21ATEX0124X Issue 1	15 June 2023	This issue of the certificate permits the introduction of two alternative cell types considered suitable to be used with the equipment. The new cells are KA2500 cells manufactured by KBS Prime Power Solutions and KA2600 cells manufactured by KBS Prime Power Solutions. Additionally, the variation introduces new specific conditions of use and a reduced detail (short form) certification label to replace the originally certified long form version. The associated test and assessment is recorded in IECEx ExTR GB/SGS/ExTR23.0039/00 and held with project 23/0250.

For drawings applicable to each issue, see original of that issue.