



# 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 21.0042X** Page 1 of 4 [Certificate history:](#)  
Status: **Current** Issue No: 1 [Issue 0 \(2021-08-05\)](#)  
Date of Issue: 2023-06-15  
Applicant: **Koehler-Bright Star**  
380 Stewart Road  
Hanover Twp  
PA  
18706  
**United States of America**  
Equipment: **RAZOR 60160/RAZOR FSL 60170 Flashlights**  
Optional accessory:  
Type of Protection: **Intrinsic Safety, Inherently Safe Optical Radiation**  
Marking: Ex ia op is IIC T2 Ga

Approved for issue on behalf of the IECEx  
Certification Body:

**Mr R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

pp D Brearley

Date:  
(for printed version)

15/06/2023

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**SGS UK Limited**  
**Rockhead Business Park**  
**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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Date of issue: 2023-06-15

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Manufacturer: **Koehler-Bright Star**  
380 Stewart Road  
Hanover Twp  
PA  
18706  
**United States of America**

Manufacturing  
locations:

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

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

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/ExTR21.0134/00](#)

[GB/SGS/ExTR23.0039/00](#)

Quality Assessment Report:

[US/FMG/QAR08.0001/14](#)



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Date of issue: 2023-06-15

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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 1000mm<sup>2</sup>.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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.



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

### Variation 1.1

This issue of the certificate permits the introduction of two alternative cell types considered suitable to be used with the equipment.

### Variation 1.2

This issue of the certificate permits the use of a marking label with reduced information for clarity.

### Variation 1.3

This issue of the certificate addresses and corrects/clarifies a typographical error in the original IECEx ExTR. No impact to the assessment is observed by this variation.

### Variation 1.4

Introduction of new Conditions of Use which consequently introduces an "X" Suffix to the certificate.

ExTR: **GB/SGS/ExTR23.0039/00**

File Reference: **23/0250**