



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

Certificate No.: **IECEX BAS 22.0003X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2022-02-07\)](#)
Date of Issue: 2023-06-15
Applicant: **Koehler Bright Star**
380 Stewart Road
Hanover Twp
PA
18706
United States of America
Equipment: **Vision LED Headlamp Model 200501**
Optional accessory:
Type of Protection: **Intrinsic Safety, Inherently Safe Optical Radiation**
Marking: Ex ia op is IIC T4 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

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

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





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

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/ExTR22.0005/00](#)

[GB/SGS/ExTR23.0045/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

3-AAA Vision Headlamp is powered by 3 AAA cells in series 1.5V each. Five cell types may be used, Mfg. Duracell MN2400 AAA 1.5V Alkaline, E92 Energizer Alkaline AAA 1.5V cell, PC2400 AAA Alkaline-Manganese Dioxide cells, KA1100 AAA Alkaline KBS Prime Power Solutions and KA1200 AAA Alkaline KBS Prime Power Solutions. There are two modes of LED operation on the vision Headlamp. One mode is Main LED using high power (Spot) LED, and second mode is flashing and steady mode LED.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Control environmental humidity to minimize the generation of static electricity. Wipe with a damp cloth to minimize potential for static build-up in dry environments.
2. Replace batteries in an atmosphere known to be non-hazardous.
3. Do not open equipment in a hazardous area.
4. Do not mix old batteries with used batteries or mix batteries from different manufactures.
5. Replace batteries only with the following battery models/types. Duracell MN2400 AAA 1.5V Alkaline, E92 Energizer Alkaline AAA 1.5V cell, PC2400 AAA Alkaline-Manganese Dioxide cells, KA1100 AAA Alkaline KBS Prime Power Solutions and KA1200 AAA Alkaline KBS Prime Power Solutions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 1.1

To extend the cell types permitted to be used with the equipment.

Variation 1.2

To permit constructional changes to the equipment that impacts the intrinsic safety aspects of the certification.

Variation 1.3

To permit amendments to the marking of the equipment.

Variation 1.4

To extend the Specific Conditions of Use applied to the equipment.

ExTR: **GB/SGS/ExTR23.0045/00**

File Reference: **23/0153**