



[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: **DEMKO 04 ATEX 133435**

[4] Equipment or Protective System: **Model 2317 Hand-Held Battery Operated Flashlight**

[5] Manufacturer: **Koehler-Bright Star, Inc.**

[6] Address: **380 Stewart Rd., Hanover Township, PA 18706 USA**

[7] This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 0305421

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 E incl. A1+A2 EN 50019: 2000 E EN 50020: 2002 E

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

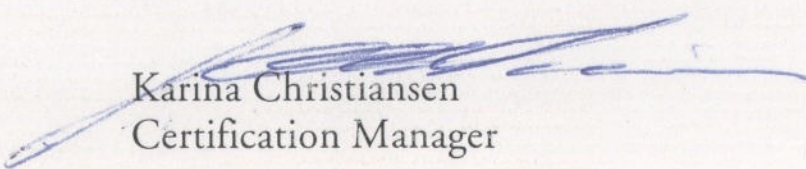
[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment or protective system shall include the following:

⊕ II 2 G EEx ib e IIC T6

On behalf of UL International Demko A/S

Herlev, 2004-02-27


Karina Christiansen
Certification Manager

[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 04 ATEX 133435

[15]

Description of Equipment or protective system

The Model 2317 is a hand-held battery-operated flashlight.
Supply: Two size "D", Type R20C carbon-zinc batteries.

The flashlight uses the following flanged base lamp bulb:

Type PR6 (Xenon), rated 0.3 A, 2.47 V.

The flashlight is powered by two of the following size "D" carbon-zinc cells:

Koehler-Bright Star Part No. 10-PS

The device is marked: "The batteries and bulbs shall not be replaced in a potentially explosive atmosphere."

Ambient temperature range: $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$.

Marked Temperature Code: T6

[16]

Report No.

Project Report No.: 0305421 (Hazardous Location Testing)

Drawings:

Number	Date	Description
3F-3188D	2004-02-02	Torch/Flashlight Assembly
1F-06710	2003-06-02	Reflector Bushing
1F-1831D	2003-06-02	Reflector
3F-1940	2003-06-13	Bulb Contact
8F-1941F	2003-06-02	Shock
3F-2219E	2003-05-22	Gasket
8F-2671D	2003-08-04	Deep Snap-In Lens
8F-3189A	2003-05-22	Tube
8F-3190B	2003-08-04	Lens Ring
1F-3155B	2003-05-22	2/3 Way Switch Contact
3F-2672E	2003-05-23	Reflector Contact
3F-1932D	2003-05-23	Strap Contact
3F-1615E	2003-04-23	Bottom Cap Spring
8F-3156A	2003-05-23	Saddle Button 3-Way
8F-3158A	2003-05-23	Switch Box
9K-0539	2002-09-04	Locking Screw
9F-3220	1996-02-22	Retaining Ring
9K-0540	2002-09-04	Gasket, Locking Screw
3F-1929E	1996-07-12	Leg (Locking Screw)
9K-0621	2003-08-18	Markings

[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 04 ATEX 133435

[17]

Special conditions for safe use:
None

[18]

Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.


Additional information

The Model 2317 flashlight has in addition passed the tests for Ingress Protection to IP 64 in accordance with IEC 60529.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2004-02-27


Karina Christiansen
Certification Manager