

Certificate

Quality Assurance Notification



Directive 2014/34/EU

Certificate Registr. No. **01 220 1609019**

The Certification Body for Explosion Protection
of TÜV Rheinland Industrie Service GmbH
Reported under no. 0035
certifies:

Certificate Holder: **Ledlenser GmbH & Co. KG**
Kronenstr. 5-7
42699 Solingen
Germany

Scope: Production, final equipment inspection and testing of explosion
protected luminaires
Types of protection: ia, op is

An audit was performed, Report No. 1609019. Proof has been
furnished that the requirements according to Directive
2014/34/EU Annex IV are fulfilled.

The due date for all future audits is 20th September

Validity: The certificate is valid from 2018-01-05 until 2020-09-20
First certification/2017



Wuppertal, 2018-01-05

TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, D-51105 Cologne
Dipl.-Ing. Andreas Maschke

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: **Baseefa17ATEX0157 – Issue 2**

4 Product: **EX4, EX7 & EX7R Flashlights, EXH8 & EXH8R Headlamps**

5 Manufacturer: **Ledlenser GmbH & Co. KG**

6 Address: **Kronenstraße 5-7, D-42699, Solingen, Germany**

7 This re-issued certificate extends EU Type Examination Certificate No. Baseefa17ATEX0157 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 Baseefa, Notified Body number 1180, 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.

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 EN 60079-28: 2015

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 :

 (see schedule)

SGS Baseefa Customer Reference No. **7674**

Project File No. **18/0538**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

13 **Schedule**

14 **Certificate Number Baseefa17ATEX0157 – Issue 2**

15 **Description of Product**

The EX4 and EX7 are portable flashlights and the EXH8 is a portable headlamp that are all powered by primary cells. They are suitable for use in Group IIC and IIIC areas and have Equipment Protection Levels of Ga and Da.

The EX7R is a portable flashlight and the EXH8R is a portable headlamp that are both powered by a custom Lithium Ion based battery pack. They are suitable for use in Group IIC and IIIC areas and have Equipment Protection Levels of Gb and Db.

The EX4 is powered by two alkaline LR03 (AAA) cells. Only the following cell types are permitted:- Duracell OEM LR03, Duracell Plus Power LR03, Energizer LR03, and Varta LR03.

The EX7 and the EXH8 are powered by three LR6 (AA) cells. Only the following cell types are permitted:- Duracell Plus Power (coppertop) and Duracell OEM (coppertop).

The rechargeable models EX7R and EXH8R may only be fitted with Ledlenser battery pack type EX18650B1. Other battery packs of the same physical size are not to be used.

The rechargeable models EX7R and EXH8R have a charging socket rated $U_m = 6.75V$.

The EX4, EX7, & EXH8 models are marked:-

- Ⓜ II 1G Ex ia op is IIC T4 Ga
- Ⓜ II 1D Ex ia op is IIIC T₂₀₀135°C Da

The EX7R & EXH8R models are marked:-

- Ⓜ II 2G Ex ib op is IIC T4 Gb
- Ⓜ II 2D Ex ib op is IIIC T135°C Db

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
1.3.1	Hazards arising from different sources
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 **Drawings and Documents**

Drawings assessed for this issue of certificate:

Number	Sheet	Issue	Date	Title
5010170EY0-01 *2	1	V1	18/01/2018	5010170EY0 *1
* 5010170EY0-02 *4	1	V3	26/09/2018	5010170EY0 *1
* 5010170EY0-02A *4	1	V1	07/09/2018	5010170EY0 *1
5010170EY0-03 *4	1	V1	06/12/2017	5010170EY0 *1

Number	Sheet	Issue	Date	Title
5010170EY0-04 *4	1	V1	24/01/2018	5010170EY0 *1
5010170EY0-05 *4	1	V1	02/01/2018	5010170EY0 Ø2.6 *1
5010170EY0-06 *2	1	V1	24/01/2018	5010170EY0 *1
5010170EY0-07 *2	1	V1	13/12/2017	5010170EY0 *1
5010170EY0-08 *4	1	V1	14/12/2017	5010170EY0 *1
5010170EY0-09 *4	1	V1	14/12/2017	5010170EY0 *1
5010170EY0-10 *4	1	V1	20/12/2017	5010170EY0 *1
5010170EY0-11 *2	1	V1	18/01/2018	5010170EY0 *1
5010170EY0-12 *4	1	V1	17/01/2018	5010170EY0 *1
5010170EY0-14 *4	1	V1	26/10/2017	5010170EY0 *1
5010170EY0-15 *4	1	V1	14/12/2017	5010170EY0 *1
5010170EY0-16 *4	1	V1	24/01/2018	5010170EY0 *1
5010170EY0-17 *4	1	V1	25/01/2018	5010170EY0 *1
5010170EY0-18 *4	1	V1	22/11/2017	5010170EY0 *1
5010170EY0-19 *4	1	V1	16/11/2017	5010170EY0 *1
5010170EY0-20 *4	1	V1	16/11/2017	5010170EY0 *1
5010170EY0-22 *4	1	V1	24/01/2018	Ø21X2"0" *1
5010170EY0-23 *4	1	V1	24/01/2018	Ø28X2"0" *1
5010170EY0-25 *4	1	V1	24/01/2018	Ø10X1.5"0" *1
5010170EY0-26 *4	1	V0	25/01/2018	5010170EY0 *1
5010170EY0-27 *4	1	V0	25/01/2018	5010170EY0 *1
* 5010170EY0-30 *2	1	V0	28/09/2018	EXH8 Discharging Unit A
* 5010170EY0-31 *2	1	V0	28/09/2018	EXH8 Discharging Unit B
* 5010170EY0-34 *2	1	V0	28/09/2018	EXH8R Discharging Unit A
* 5010170EY0-35 *2	1	V0	28/09/2018	EXH8R Discharging Unit B
5010170EY0-A *2	1	V1	23/01/2018	EXH8(5010170EY0) explosive view
* 5010170EY0-B *2	1	V2	24/07/2018	5010170EY0) Head part explosive view
* 5010170EY0-C *2	1	V2	24/07/2018	5010170EY0) Battery box explosive view
5010170EY0-LA-01 *2	1	V2	27/06/2018	1xXPL 3xAA EXH8 *1
501018REY0-01 *2	1	V1	18/01/2018	501018REY0 *1
501018REY0-A *2	1	V1	23/01/2018	501018REY0) Explosive view
* 501018REY0-B *2	1	V2	24/07/2018	501018REY0) Battery box explosive view
501018REY0-LA-01 *2	1	V1	15/06/2018	1xXPL 18650 EXH8R *1
D31.8XPL-RLS *4	1	V0	05/09/2016	Ø31.8XPL-LED *1
EX4200Y0-01 *4	1 & 2	V4	08/11/2017	EX4200Y0 (2-shot mould) *1
EX4200Y0-05 *4	1	V2	07/06/2017	EX4200Y0 *1
EX4200Y0-07 *4	1	V1	25/02/2016	EX4200Y0 *1
EX4200Y0-08 *4	1	V1	01/03/2016	EX4200Y0 *1
EX4200Y0-10 *4	1	V0	28/07/2017	EX4200Y0 *1
EX4200Y0-11 *2	1	V3	26/01/2018	EX4200Y0 LED ROHS *1
EX4200Y0-11A *4	1	V3	01/09/2017	EX4200Y0 LED ROHS *1
EX4200Y0-12 *2	1	V3	26/01/2018	EX4200Y0 ROHS *1

Number	Sheet	Issue	Date	Title
EX4200Y0-12A *2	1	V4	01/09/2017	EX4200Y0 ROHS *1
EX4200Y0-13 *2	1	V2	26/01/2018	EX4200Y0 ROHS *1
EX4200Y0-13A *2	1	V5	10/08/2017	EX4200Y0 ROHS *1
EX4200Y0-15 *4	1	V2	28/08/2017	Ø11.8XP-LED *1
EX4200Y0-16 *2	1 & 2	V3	05/12/2017	EX4200Y0 (1-shot) *1
EX4200Y0-17 *4	1	V1	01/08/2017	EX4200Y0 *1
EX4200Y0-18 *4	1	V2	27/11/2017	EX4200Y0 *1
EX4200Y0-19 *4	1	V2	06/12/2017	EX4200Y0 *1
EX4200Y0-20 *4	1	V1	12/12/2017	Ø13X1.3"0" *1
EX4200Y0-21 *4	1	V1	12/12/2017	Ø6.5XØ2.5 *1
EX4200Y0-22 *2	1 & 2	V1	19/01/2018	EX4200Y0 *1
EX4200Y0-A *2	1	V1	04/02/2018	EX4 explosion view
EX4200Y0-LA-01 *2	1	V2	27/06/2018	2xAAA 1xXPG2 EX4 *1
EX5836Y0-01 *4	1 & 2	V2	26/09/2017	EX5836Y0 2-shot mold *1
EX5836Y0-02 *4	1	V2	05/12/2017	EX5836Y0 2-shot mold *1
EX5836Y0-03 *2	1 & 2	V2	29/09/2017	EX5836Y0 2-shot mold *1
EX5836Y0-04 *4	1 & 2	V2	27/09/2017	EX5836Y0 2-shot mold *1
EX5836Y0-06 *4	1	V0	04/08/2017	EX5836Y0 *1
EX5836Y0-07 *4	1	V2	25/09/2017	EX5836Y0 *1
EX5836Y0-08 *4	1	V2	04/08/2017	EX5836Y0 LED *1
EX5836Y0-09 *4	1	V1	23/06/2016	EX5836Y0 LED heat sink
EX5836Y0-10 *2	1	V2	16/10/2017	EX5836Y0 *1
EX5836Y0-14 *2	1	V1	04/08/2017	3xAA *1
EX5836Y0-15 *2	1	V0	04/08/2017	3xAA *1
EX5836Y0-24 *2	1	V2	31/01/2018	Ø7.1X5.8M5 *1
EX5836Y0-25 *4	1	V0	19/01/2018	EX5836Y0 *1
EX5836Y0-26 *4	1	V0	19/01/2018	M5X8 *1
EX5836Y0-27 *2	1	V1	23/11/2017	EX5836Y0 (1-shot) *1
EX5836Y0-28 *4	1	V1	29/09/2017	Ø29x1.6"0" *1
EX5836Y0-29 *4	1	V1	29/09/2017	Ø33x1.5"0" *1
EX5836Y0-30 *4	1	V0	07/09/2017	Ø32x1.6"0" *1
EX5836Y0-31 *4	1	V0	19/01/2018	EX5836Y0 3XAA *1
EX5836Y0-33 *4	1	V0	22/12/2017	EX5836Y0 *1
EX5836Y0-34 *4	1	V0	16/01/2018	EX5836Y0 3XAA *1
EX5836Y0-35 *4	1	V0	16/01/2018	EX5836Y0 3XAA *1
* EX5836Y0-50 *2	1	V0	28/09/2018	EX7 Discharging Unit A
* EX5836Y0-51 *2	1	V0	28/09/2018	EX7 Discharging Unit B
* EX5836Y0-54 *2	1	V0	28/09/2018	EX7R Discharging Unit A
* EX5836Y0-55 *2	1	V0	28/09/2018	EX7R Discharging Unit B
* EX5836Y0-A *2	1	V2	24/07//2018	EX7 explosion view
EX5836Y0-B *4	1	V3	18/05/2018	3XAA battery box unit
EX5836Y0-LA-01 *2	1	V2	27/06/2018	3xAA 1xXPL EX7 *1

Number	Sheet	Issue	Date	Title
EX5837-RY0-02 *2	1	V2	31/01/2018	EX5837-RY0 *1
EX5837-RY0-03 *2	1	V2	31/01/2018	EX7R *1
EX5837-RY0-04 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
EX5837-RY0-05 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
EX5837-RY0-05LA *2	1	V1	18/06/2018	EX5837-RY0 *1
EX5837-RY0-06 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
EX5837-RY0-07 *2	1	V0	19/01/2018	EX5837-RY0 18650 *1
EX5837-RY0-08 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
EX5837-RY0-15 *2	1	V2	12/06/2018	EX5837-RY0 *1
EX5837-RY0-15A *2	1	V0	08/09/2016	EX5837-RY0 *1
EX5837-RY0-16 *4	1	V2	14/06/2018	EX5837-RY0 *1
EX5837-RY0-16A *4	1	V0	13/09/2016	EX5837-RY0 *1
EX5837-RY0-22 *2	1	V0	07/12/2017	EX5837-RY0 (1-shot)*1
* EX5837-RY0-A *2	1	V2	24/07/2018	EX7R explosion view
EX5837-RY0-B *2	1	V1	05/06/2018	EX5837-RY0 Rechargeable battery box exploded drawing
EX5837-RY0-LA-01 *2	1	V1	18/06/2018	1x18650 1xXPL EX7R *1
LL5606-RL0-11A *4	1	V0	31/12/2014	LL5606-RL0-11A
LL8303-RL0-20 *4	1	V0	28/07/2017	LL8303-RL0 *1

Drawings prefixed with * are new drawings that are held with IECEx BAS 18.0008 Issue 2.

The dates shown are the printed dates on the drawing, not hand stamped dates on the drawings.

Note *1 - Chinese characters not appearing here are shown as part of the drawing name

Note *2 - Drawing numbers suffixed with *2 are drawings held with IECEx BAS18.0008 and associated with Baseefa17ATEX0157.

Note *4 - Drawing numbers suffixed with *4 are drawings held with IECEx BAS 18.0008 and common to Baseefa17ATEX0157 and Baseefa18ATEX0070.

Refer to report GB/BAS/ExTR18.0249/00 for the full cross referencing of drawings to certificates.

There are no other current drawings applicable to this certificate.

20 Certificate History

Certificate No.	Date	Comments
Baseefa17ATEX0157	14 March 2018	The release of the prime certificate. The associated test and assessment against the requirements of IEC 60079-0:2017, EN 60079-11:2012 & EN 60079-28:2015 is documented in report GB/BAS/ExTR17.0081/00 for project 16/0864
Baseefa17ATEX0157 Issue 1	19 July 2018	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and permits the addition of models EX7R & EXH8R. The associated test and assessment against EN IEC 60079-0:2018, EN 60079-11:2012 & EN 60079-28:2015 is documented in report GB/BAS/ExTR17.0081/01 for project 16/0864.
Baseefa17ATEX0157 Issue 2	6 November 2018	To permit resistor changes, to permit other minor electrical and mechanical changes, and to permit a drawing structure rationalisation. The associated test and assessment is documented in report GB/BAS/ExTR18.0249/00 (and GB/BAS/ExTR17.0081/02) for project 18/0538.

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



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 18.0008

Issue No: 2

Certificate history:

Status: **Current**

Issue No. 2 (2018-11-08)

Issue No. 1 (2018-07-19)

Date of Issue: **2018-11-08**

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Issue No. 0 (2018-03-02)

Applicant: **Ledlenser GmbH & Co. KG**
Kronenstr. 5-7
42699 Solingen
Germany

Equipment: **EX4, EX7, EX7R, IL4, IL7 & IL7R Flashlights. EXH8, EXH8R, ILH8 & ILH8R Headlamps**

Optional accessory:

Type of Protection: **Intrinsic safety, Inherently Safe Optical Radiation**

Marking:

EX4, EX7, EXH8
Ex ia op is IIC T4 Ga
Ex ia op is IIIC T₂₀₀ 135°C Da

EX7R, EXH8R
Ex ib op is IIC T4 Gb
Ex ib op is IIIC T135°C Db

IL4, IL7, ILH8, IL7R, ILH8R
Ex ic IIC T4 Gc
Ex ic IIIC T135°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

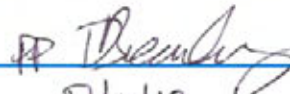
D BREARLEY
Certification
Manager

Position:

Technical Manager

Signature:
(for printed version)

Date:


8/11/18

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEx BAS 18.0008 Issue No: 2
Date of Issue: 2018-11-08 Page 2 of 4
Manufacturer: **Ledlenser GmbH & Co. KG**
Kronenstr. 5-7
42699 Solingen
Germany

Additional Manufacturing location(s):

Ledlenser Corporation Ltd.

No.25, Yudong 1 Road, Dongcheng Town,
Yangdong District, Yangjiang City, Guang-Dong Province, 529931
China

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 apparatus 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/BAS/ExTR17.0081/02](#) [GB/BAS/ExTR18.0249/00](#)

Quality Assessment Report:

[DE/TUR/QAR17.0015/01](#)



IECEx Certificate of Conformity

Certificate No: IECEx BAS 18.0008

Issue No: 2

Date of Issue: 2018-11-08

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EX4 and EX7 are portable flashlights and the EXH8 is a portable headlamp that are all powered by primary cells. They are suitable for use in Group IIC and IIIC areas and have Equipment Protection Levels of Ga and Da.

The EX7R is a portable flashlight and the EXH8R is a portable headlamp that are both powered by a custom Lithium Ion based battery pack. They are suitable for use in Group IIC and IIIC areas and have Equipment Protection Levels of Gb and Db.

The EX4 is powered by two alkaline LR03 (AAA) cells. Only the following cell types are permitted:- Duracell OEM LR03, Duracell Plus Power LR03, Energizer LR03, and Varta LR03.

The EX7 and the EXH8 are powered by three LR6 (AA) cells. Only the following cell types are permitted:- Duracell Plus Power (coppertop) and Duracell OEM (coppertop).

The rechargeable models EX7R and EXH8R may only be fitted with Ledlenser battery pack type EX18650B1. Other battery packs of the same physical size are not to be used.

The rechargeable models EX7R and EXH8R have a charging socket rated $U_m = 6.75V$.

The EX4, EX7, & EXH8 models are marked:-

Ex ia op is IIC T4 Ga

Ex ia op is IIIC T200135°C Da

The EX7R & EXH8R models are marked:-

Ex ib op is IIC T4 Gb

Ex ib op is IIIC T135°C Db

The iL4 and iL7 are portable flashlights and the iLH8 is a portable headlamp that are all powered by primary cells, have EPLs of Gc and Dc, and are suitable for use in Group IIC and IIIC areas.

The iL7R is a rechargeable version of the iL7, and the iLH8R is a rechargeable version of the iLH8 that also have EPLs of Gc and Dc, and are also suitable for use in Group IIC and IIIC areas.

All iL* models are marked:-

Ex ic IIC T4 Gc

Ex ic IIIC T135°C Dc

The iL4 is powered by two alkaline LR03 (AAA) cells. Only the following AAA / LR03 cell types are permitted:- Duracell Plus Power, Duracell OEM, Energizer Varta High Energy, Panasonic Industrial Powerline, Panasonic Evolta, Panasonic LR03XJ, Ledlenser Alkaline LR03.

The iL7 and the iLH8 are powered by three LR6 (AA) cells. Only the following cell types are permitted:- Duracell Plus Power, Duracell OEM, Energizer E91, Energizer Industrial E91, Varta High Energy, Panasonic Industrial Powerline, Panasonic Evolta, Panasonic LR6XJ, Ledlenser Alkaline LR6.

The rechargeable models iL7R and iLH8R must only be fitted with Ledlenser battery pack type iL18650C1.

The rechargeable models iL7R and iLH8R have a charging socket rated $U_m = 15V$.

The iL4, iL7, iLH8, iL7R & iLH8R models are outside the scope of EN 60079-28.

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No: IECEx BAS 18.0008

Issue No: 2

Date of Issue: 2018-11-08

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DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

Variation 2.1

To permit resistor changes, to permit other minor electrical and mechanical changes, and to permit a drawing structure rationalisation.

ExTR: GB/BAS/ExTR18.0249/00

File Reference: 18/0538