

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 1**

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. 16/0864

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

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Schedule

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Certificate Number Baseefa17ATEX0157 – Issue 1

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 EXH8 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 | 1 | V1 | 18/01/2018 | 5010170EY0 *1 |
| 5010170EY0-02 | 1 | V2 | 18/05/2018 | 5010170EY0 *1 |
| 5010170EY0-02A | 1 | V0 | 28/07/2017 | 5010170EY0 *1 |
| 5010170EY0-03 | 1 | V1 | 06/12/2017 | 5010170EY0 *1 |

| Number | Sheet | Issue | Date | Title |
|------------------|-------|-------|------------|--------------------------------------|
| 5010170EY0-04 | 1 | V1 | 24/01/2018 | 5010170EY0 *1 |
| 5010170EY0-05 | 1 | V1 | 02/01/2018 | 5010170EY0 Ø2.6 *1 |
| 5010170EY0-06 | 1 | V1 | 24/01/2018 | 5010170EY0 *1 |
| 5010170EY0-07 | 1 | V1 | 13/12/2017 | 5010170EY0 *1 |
| 5010170EY0-08 | 1 | V1 | 14/12/2017 | 5010170EY0 *1 |
| 5010170EY0-09 | 1 | V1 | 14/12/2017 | 5010170EY0 *1 |
| 5010170EY0-10 | 1 | V1 | 20/12/2017 | 5010170EY0 *1 |
| 5010170EY0-11 | 1 | V1 | 18/01/2018 | 5010170EY0 *1 |
| 5010170EY0-12 | 1 | V1 | 17/01/2018 | 5010170EY0 *1 |
| 5010170EY0-13 | 1 | V1 | 26/01/2018 | 5010170EY0 *1 |
| 5010170EY0-13A | 1 | V0 | 28/07/2017 | 5010170EY0 *1 |
| 5010170EY0-14 | 1 | V1 | 26/10/2017 | 5010170EY0 *1 |
| 5010170EY0-15 | 1 | V1 | 14/12/2017 | 5010170EY0 *1 |
| 5010170EY0-16 | 1 | V1 | 24/01/2018 | 5010170EY0 *1 |
| 5010170EY0-17 | 1 | V1 | 25/01/2018 | 5010170EY0 *1 |
| 5010170EY0-18 | 1 | V1 | 22/11/2017 | 5010170EY0 *1 |
| 5010170EY0-19 | 1 | V1 | 16/11/2017 | 5010170EY0 *1 |
| 5010170EY0-20 | 1 | V1 | 16/11/2017 | 5010170EY0 *1 |
| 5010170EY0-22 | 1 | V1 | 24/01/2018 | Ø21X2"0" *1 |
| 5010170EY0-23 | 1 | V1 | 24/01/2018 | Ø28X2"0" *1 |
| 5010170EY0-25 | 1 | V1 | 24/01/2018 | Ø10X1.5"0" *1 |
| 5010170EY0-26 | 1 | V0 | 25/01/2018 | 5010170EY0 *1 |
| 5010170EY0-27 | 1 | V0 | 25/01/2018 | 5010170EY0 *1 |
| 5010170EY0-A | 1 | V1 | 23/01/2018 | EXH8(5010170EY0) explosive view |
| 5010170EY0-B | 1 | V1 | 23/01/2018 | 5010170EY0) Head part explosive view |
| 5010170EY0-C | 1 | V1 | 22/01/2018 | 5010170EY0Battery box explosive view |
| 5010170EY0-LA-01 | 1 | V2 | 27/06/2018 | 1xXPL 3xAA EXH8 *1 |
| 501018REY0-01 | 1 | V1 | 18/01/2018 | 501018REY0 *1 |
| 501018REY0-A | 1 | V1 | 23/01/2018 | 501018REY0) Explosive view |
| 501018REY0-B | 1 | V1 | 22/01/2018 | 5010180EY0Battery box explosive view |
| 501018REY0-LA-01 | 1 | V1 | 15/06/2018 | 1xXPL 18650 EXH8R *1 |
| D31.8XPL-RLS | 1 | V0 | 05/09/2016 | Ø31.8XPL-LED *1 |
| EX4200Y0-01 | 1 & 2 | V4 | 08/11/2017 | EX4200Y0 (2-shot mould) *1 |
| EX4200Y0-05 | 1 | V2 | 07/06/2017 | EX4200Y0 *1 |
| EX4200Y0-07 | 1 | V1 | 25/02/2016 | EX4200Y0 *1 |
| EX4200Y0-08 | 1 | V1 | 01/03/2016 | EX4200Y0 *1 |
| EX4200Y0-10 | 1 | V0 | 28/07/2017 | EX4200Y0 *1 |
| EX4200Y0-11 | 1 | V3 | 26/01/2018 | EX4200Y0 LED ROHS *1 |
| EX4200Y0-11A | 1 | V3 | 01/09/2017 | EX4200Y0 LED ROHS *1 |
| EX4200Y0-12 | 1 | V3 | 26/01/2018 | EX4200Y0 ROHS *1 |
| EX4200Y0-12A | 1 | V4 | 01/09/2017 | EX4200Y0 ROHS *1 |
| EX4200Y0-13 | 1 | V2 | 26/01/2018 | EX4200Y0 ROHS *1 |

| Number | Sheet | Issue | Date | Title |
|----------------|-------|-------|------------|-------------------------|
| EX4200Y0-13A | 1 | V5 | 10/08/2017 | EX4200Y0 ROHS *1 |
| EX4200Y0-15 | 1 | V2 | 28/08/2017 | Ø11.8XP-LED *1 |
| EX4200Y0-16 | 1 & 2 | V3 | 05/12/2017 | EX4200Y0 (1-shot) *1 |
| EX4200Y0-17 | 1 | V1 | 01/08/2017 | EX4200Y0 *1 |
| EX4200Y0-18 | 1 | V2 | 27/11/2017 | EX4200Y0 *1 |
| EX4200Y0-19 | 1 | V2 | 06/12/2017 | EX4200Y0 *1 |
| EX4200Y0-20 | 1 | V1 | 12/12/2017 | Ø13X1.3"0" *1 |
| EX4200Y0-21 | 1 | V1 | 12/12/2017 | Ø6.5XØ2.5 *1 |
| EX4200Y0-22 | 1 & 2 | V1 | 19/01/2018 | EX4200Y0 *1 |
| EX4200Y0-A | 1 | V1 | 04/02/2018 | EX4 explosion view |
| EX4200Y0-LA-01 | 1 | V2 | 27/06/2018 | 2xAAA 1xXPG2 EX4 *1 |
| EX5836Y0-01 | 1 & 2 | V2 | 26/09/2017 | EX5836Y0 2-shot mold *1 |
| EX5836Y0-02 | 1 | V2 | 05/12/2017 | EX5836Y0 2-shot mold *1 |
| EX5836Y0-03 | 1 & 2 | V2 | 29/09/2017 | EX5836Y0 2-shot mold *1 |
| EX5836Y0-04 | 1 & 2 | V2 | 27/09/2017 | EX5836Y0 2-shot mold *1 |
| EX5836Y0-06 | 1 | V0 | 04/08/2017 | EX5836Y0 *1 |
| EX5836Y0-07 | 1 | V2 | 25/09/2017 | EX5836Y0 *1 |
| EX5836Y0-08 | 1 | V2 | 04/08/2017 | EX5836Y0 LED *1 |
| EX5836Y0-09 | 1 | V1 | 23/06/2016 | EX5836Y0 LED heat sink |
| EX5836Y0-10 | 1 | V2 | 16/10/2017 | EX5836Y0 *1 |
| EX5836Y0-14 | 1 | V1 | 04/08/2017 | 3xAA *1 |
| EX5836Y0-15 | 1 | V0 | 04/08/2017 | 3xAA *1 |
| EX5836Y0-20 | 1 | V3 | 26/01/2018 | EX5836Y0 *1 |
| EX5836Y0-20A | 1 | V2 | 12/12/2017 | EX5836Y0 *1 |
| EX5836Y0-21 | 1 | V2 | 26/01/2018 | EX5836Y0 *1 |
| EX5836Y0-21A | 1 | V1 | 03/08/2017 | EX5836Y0 *1 |
| EX5836Y0-22 | 1 | V4 | 02/03/2018 | EX5836Y0 *1 |
| EX5836Y0-22A | 1 | V4 | 12/12/2017 | EX5836Y0 *1 |
| EX5836Y0-24 | 1 | V2 | 31/01/2018 | Ø7.1X5.8M5 *1 |
| EX5836Y0-25 | 1 | V0 | 19/01/2018 | EX5836Y0 *1 |
| EX5836Y0-26 | 1 | V0 | 19/01/2018 | M5X8 *1 |
| EX5836Y0-27 | 1 | V1 | 23/11/2017 | EX5836Y0 (1-shot) *1 |
| EX5836Y0-28 | 1 | V1 | 29/09/2017 | Ø29x1.6"0" *1 |
| EX5836Y0-29 | 1 | V1 | 29/09/2017 | Ø33x1.5"0" *1 |
| EX5836Y0-30 | 1 | V0 | 07/09/2017 | Ø32x1.6"0" *1 |
| EX5836Y0-31 | 1 | V0 | 19/01/2018 | EX5836Y0 3XAA *1 |
| EX5836Y0-32A | 1 | V0 | 08/01/2018 | EX5836Y0 *1 |
| EX5836Y0-33 | 1 | V0 | 22/12/2017 | EX5836Y0 *1 |
| EX5836Y0-34 | 1 | V0 | 16/01/2018 | EX5836Y0 3XAA *1 |
| EX5836Y0-35 | 1 | V0 | 16/01/2018 | EX5836Y0 3XAA *1 |
| EX5836Y0-A | 1 | V1 | 18/01/2018 | EX7 explosion view |
| EX5836Y0-B | 1 | V3 | 18/05/2018 | 3XAA battery box unit |

| Number | Sheet | Issue | Date | Title |
|------------------|-------|-------|------------|--|
| EX5836Y0-LA-01 | 1 | V2 | 27/06/2018 | 3xAA 1xXPL EX7 *1 |
| EX5837-RY0-02 | 1 | V2 | 31/01/2018 | EX5837-RY0 *1 |
| EX5837-RY0-03 | 1 | V2 | 31/01/2018 | EX7R *1 |
| EX5837-RY0-04 | 1 | V0 | 07/08/2017 | EX5837-RY0 18650 *1 |
| EX5837-RY0-05 | 1 | V0 | 07/08/2017 | EX5837-RY0 18650 *1 |
| EX5837-RY0-05LA | 1 | V1 | 18/06/2018 | EX5837-RY0 *1 |
| EX5837-RY0-06 | 1 | V0 | 07/08/2017 | EX5837-RY0 18650 *1 |
| EX5837-RY0-07 | 1 | V0 | 19/01/2018 | EX5837-RY0 18650 *1 |
| EX5837-RY0-08 | 1 | V0 | 07/08/2017 | EX5837-RY0 18650 *1 |
| EX5837-RY0-15 | 1 | V2 | 12/06/2018 | EX5837-RY0 *1 |
| EX5837-RY0-15A | 1 | V0 | 08/09/2016 | EX5837-RY0 *1 |
| EX5837-RY0-16 | 1 | V2 | 14/06/2018 | EX5837-RY0 *1 |
| EX5837-RY0-16A | 1 | V0 | 13/09/2016 | EX5837-RY0 *1 |
| EX5837-RY0-19 | 1 | V2 | 26/01/2018 | EX5837-RY0 *1 |
| EX5837-RY0-20 | 1 | V2 | 26/01/2018 | EX5837-RY0 *1 |
| EX5837-RY0-22 | 1 | V0 | 07/12/2017 | EX5837-RY0 (1-shot)*1 |
| EX5837-RY0-A | 1 | V1 | 18/01/2018 | EX7R explosion view |
| EX5837-RY0-B | 1 | V1 | 05/06/2018 | EX5837-RY0 Rechargeable battery box exploded drawing |
| EX5837-RY0-LA-01 | 1 | V1 | 18/06/2018 | 1x18650 1xXPL EX7R *1 |
| LL5606-RL0-11A | 1 | V0 | 31/12/2014 | LL5606-RL0-11A |
| LL8303-RL0-20 | 1 | V0 | 28/07/2017 | LL8303-RL0 *1 |

Note - Dates shown above are the printed dates on the drawing, not "rubber stamp" dates.

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

These drawings are held with IECEx BAS 17.0008 Issue 1, and some are common to Baseefa18ATEX0070 (prime).

Refer to report GB/BAS/ExTR17.0081/01 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 18/0864 |
| 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 the requirements of EN IEC 60079-0:2018, EN 60079-11:2012 & EN 60079-28:2015 is documented in report GB/BAS/ExTR17.0081/01 for project 18/0864. |

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