

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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SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/baseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



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	5010170EY0Battery 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	5010180EY0Battery 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.		