

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: **SGS22ATEX0039**

4 Product: **EXC6R, EXC7R, EXH6R**

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

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

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, 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. **GB/BAS/ExTR19.0071/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012

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 Fimko Oy Customer Reference No. **7674**

Project File No. **19/0262**

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Schedule

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Certificate Number SGS22ATEX0039

15 Description of Product

The EXC6R and EXC7R are portable right-angle flashlights. The EXH6R is a portable headlamp. All are 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 Ga and Db.

The EXH6R is also suitable for use in Group I areas and has Equipment Protection Level Ma.

The lamps have a charging socket rated $U_m = 6.75V$ for use only in safe areas.

The EXC6R and EXC7R models are marked:

⊕ II 1G Ex ia IIC T4 Ga

⊕ II 2D Ex ib IIIC T135°C Db

The EXH6R is marked:

⊕ I M1 Ex ia I Ma

⊕ II 1G Ex ia IIC T4 Ga

⊕ II 2D Ex ib IIIC T135°C Db

The equipment is considered out of scope of EN 60079-28:2015.

16 Report Number

GB/BAS/ExTR19.0071/00

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
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
SC-EXC6R-A	1 & 2	V1	02/12/2021	Main exploded drawing
SC-EXC6R-B	1	V1	02/12/2021	EXC6R control PCBA subassembly
SC-EXC6R-C	1 & 2	V1	02/12/2021	EXC6R base subassembly
SC-EXC6R-D	1 & 2	V1	02/12/2021	EXC6R lamp head subassembly
SC-EXC6R-LA-01	1	V1	2022-12-06	EXC6R IECEx laser drawing
SC-EXC6R-38	1 to 4	V1	09/05/2022	EXC6R Electronics
EX4200Y0-21	1	V1	12/12/2017	Φ6.5XΦ2.5防水透气膜(白色蒲微)
SC-EXC6R-03	1	V0	18/09/2020	EXC6R top shell

Number	Sheet	Issue	Date	Description
SC-EXC6R-07	1	V1	02/12/2021	EXC6R lamp head enclosure
SC-EXC6R-09	1	V1	02/12/2021	EXC6R transparent LED enclosure cover
SC-EXC6R-12	1	V0	18/09/2020	EXC6R mounting frame
SC-EXC6R-13	1	V1	02/12/2021	EXC6R Tube
SC-EXC6R-14	1	V0	18/09/2020	EXC6R lamp hinge cover
SC-EXC6R-15	1	V2	11/04/2022	EXC6R base
SC-EXC6R-17	1	V1	02/12/2021	EXC6R LED heat-sink
SC-EXC6R-19	1	V0	18/09/2020	EXC6R charging contact pin
SC-EXC6R-20	1	V1	02/12/2021	EXC6R reflective sticker
SC-EXC6R-21	1	V1	02/12/2021	EXC6R Button
SC-EXC6R-25	1	V0	18/09/2020	EXC6RΦ3.2 three core cable
SC-EXC6R-43	1	V0	18/09/2020	EXC6R battery indicator window
SC-EXC7R-A	1 & 2	V1	02/12/2021	EXC7R Main exploded drawing
SC-EXC7R-B	1 & 2	V1	02/12/2021	EXC7R base subassembly
SC-EXC7R-C	1 & 2	V2	05/05/2022	EXC7R lamp head subassembly
SC-EXC7R-D	1	V1	02/12/2021	EXC7R control PCBA subassembly
SC-EXC7R-LA-01	1	V1	2022-12-05	EXC7R IECEx laser drawing
SC-EXC7R-35	1 to 5	V1	09/05/2022	EXC7R Electronics
SC-EXC7R-02	1	V1	02/12/2021	EXC7R transparent LED enclosure cover
SC-EXC7R-06	1	V1	02/12/2021	EXC7R lamp head enclosure
SC-EXC7R-07	1	V0	23/09/2020	EXC7R mounting frame
SC-EXC7R-09	1	V1	02/12/2021	EXC7R button
SC-EXC7R-15	1	V1	03/12/2021	EXC7R base
SC-EXC7R-18	1	V1	02/12/2021	EXC7R tube
SC-EXC7R-20	1	V0	23/09/2020	EXC7R top shell
SC-EXC7R-22	1	V0	23/09/2020	EXC7R LED heat-sink
SC-EXC7R-29	1	V0	23/09/2020	EXC7R Φ3.2 four core cable
SC-EXH6R-A	1 & 2	V1	06/05/2022	EXH6R headlamp exploded drawing
SC-EXH6R-B	1	V0	06/12/2021	EXH6R head part subassembly
SC-EXH6R-C	1 & 2	V0	06/12/2021	EXH6R battery box subassembly
SC-EXH6R-LA-01	1	V2	2022-12-06	EXH6R IECEx laser drawing
SC-EXH6R-33	1 to 4	V1	09/05/2022	EXH6R Electronics
SC-EXH6R-01	1	V0	06/12/2021	EXH6R battery box down cover
SC-EXH6R-02	1	V0	06/12/2021	EXH6R battery box up cover
SC-EXH6R-03	1	V0	06/12/2021	EXH6R button
SC-EXH6R-05	1	V0	06/12/2021	EXH6R base plate side cover
SC-EXH6R-06	1	V0	06/12/2021	EXH6R headlamp base plate
SC-EXH6R-07	1	V0	18/09/2020	EXH6R cable sealing plug
SC-EXH6R-14	1	V0	06/12/2021	EXH6R charging contact pin
SC-EXH6R-16	1	V1	06/12/2021	EXH6R cable restraint
SC-EXH6R-18	1	V0	06/12/2021	EXH6R three cores cable
SC-EXH6R-20	1	V0	06/12/2021	EXH6R headlamp sideband

Number	Sheet	Issue	Date	Description
SC-EXH6R-27	1	V0	06/12/2021	EXH6R reflective sticker
SC-EXH6R-30	1	V0	06/12/2021	EXH6R battery box light transmission column
SC-EXH6R-31	1	V1	30/05/2022	EXH6R encapsulation frame
SC-EXH6R-34	1	V0	06/12/2021	EXH6R headlamp top band
5010170EY0-26	1	V0	25/01/2018	5010170EY0头灯带方扣(黑色)
5010170EY0-27	1	V0	25/01/2018	5010170EY0头灯三画扣(黑色)
EX5837-RY0-07	1	V1	18/10/2019	EX5837-RY0 18650电池盒密封胶框
EX5836Y0-10	1	V2	16/10/2017	EX5836Y0保险丝密封胶框(透明)

All drawings are common to, and held with, IECEx BAS 22.0027.