

# 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: i, op

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 20<sup>th</sup> September

Validity: The certificate is valid from 2020-09-21 until 2023-09-20  
First certification 2017



Wuppertal, 2020-09-21

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



# IECEX Quality Assessment Report Summary

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

QAR Ref. No.:	<b>DE/TUR/QAR17.0015/02</b>	Page 1 of 1
QAR Free Ref. No.:	<b>125241582</b>	Status: <b>Issued</b>
Details of change:	Re-Certification	Date of issue: <b>2020-09-21</b>
Site(s) audited:	<b>Ledlenser GmbH &amp; Co. KG</b> Kronenstraße 5-7 Solingen D-42699 <b>Germany</b>	Valid until: <b>2023-09-20</b>
	<b>Ledlenser Corporation Ltd.</b> No.25, Yudong 1 Road, Dongcheng Town Yangdong District, Yangjiang City, Guang-Dong Province, 529931 <b>China</b>	Audit date: <b>2020-09-08</b>
Issuing ExCB:	<b>TUR - TUV Rheinland Industrie Service GmbH</b>	
Manufacturer:	<b>Ledlenser GmbH &amp; Co. KG</b> Kronenstr. 5-7 42699 Solingen	
Location of Manufacturer:	<b>Germany</b>	
Product information:	Explosion protected luminaires	
Protection concept:	<b>Ex ia Ex op</b>	
Related QARs:		
	<a href="#">DE/TUR/QAR17.0015/00</a>	<a href="#">DE/TUR/QAR17.0015/01</a>
Related Certificates (manual insertion):		
Related Certificates (automatic linking):		
Related Certificates for previous versions:		
	<a href="#">IECEX BAS 18.0008 issue: 0</a>	<a href="#">IECEX BAS 18.0008 issue: 1</a>
	<a href="#">IECEX BAS 18.0008 issue: 3</a>	<a href="#">IECEX BAS 18.0008 issue: 2</a>
Comments:		

1 **TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 Type Examination Certificate Number: **Baseefa18ATEX0070 – Issue 2**

4 Product: **iL4, iL7 and iL7R Flashlights, iLH8 and iLH8R Headlamps**

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

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

7 This re-issued certificate extends Type Examination Certificate No. Baseefa18ATEX0070 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 certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products of Category 3 intended for use in potentially explosive atmospheres given in Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

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**

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 TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the product shall include the following :

 (see schedule)

SGS Baseefa Customer Reference No. **7674**

Project File No. **19/0516**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

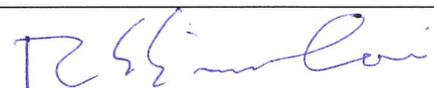
**SGS Baseefa Limited**

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Registered in England No. 4305578.

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R S SINCLAIR  
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

## Schedule

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### Certificate Number Baseefa18ATEX0070 – Issue 2

#### 15 Description of Product

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 models are marked:-

⊕ II 3G Ex ic IIC T4 Gc

⊕ II 3D 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 Evilta, 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 equipment listed on this certificate is outside the scope of EN 60079-28.

#### 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
5010170EY0-02 *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
5010170EY0-04 *4	1	V1	24/01/2018	5010170EY0 *1
5010170EY0-05 *4	1	V1	02/01/2018	5010170EY0 Ø2.6 *1

Number	Sheet	Issue	Date	Title
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
5010170EY0-12 *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
5010170EY0-32 *3	1	V0	28/09/2018	iLH8 Discharging Unit A
5010170EY0-33 *3	1	V0	28/09/2018	iLH8 Discharging Unit B
5010170EY0-36 *3	1	V0	28/09/2018	iLH8R Discharging Unit A
5010170EY0-37 *3	1	V0	28/09/2018	iLH8R Discharging Unit B
* 501018REY0-01 *4	1	V2	2019-10-18	EXH8R tube unit
5010190IEXL0-01 *3	1	V0	04/02/2018	5010190IEXL0 *1
5010190IEXL0-02 *3	1	V0	04/02/2018	5010190IEXL0 *1
5010190IEXL0-03 *3	1	V0	04/02/2018	5010190IEXL0 *1
5010190IEXL0-04 *3	1	V0	04/02/2018	5010190IEXL0 *1
5010190IEXL0-A *3	1	V0	04/02/2018	iLH8(5010190IEXL0) explosive view
* 5010190IEXL0-B *3	1	V2	2019-10-18	5010190IEXL0 Head part exploded assembly drawing
* 5010190IEXL0-C *3	1	V2	2019-10-18	5010190IEXL0 battery box exploded assembly drawing
5010190IEXL0-LA-01 *3	1	V1	18/06/2018	1xXPL 3xAA iLH8 *1
501052REXL0-03 *3	1	V2	12/06/2018	501052REXL0 *1
501052REXL0-03A *3	1	V0	09/01/2017	501052REXL0 *1
501052REXL0-07 *3	1	V0	03/02/2018	501052REXL0 *1
501052REXL0-09LA *3	1	V1	18/06/2018	501052REXL0 *1
* 501052REXL0-A *3	1	V3	2019-10-18	iLR7 exploded assembly drawing
501052REXL0-B *3	1	V1	18/05/2018	501052REXL0 Rechargeable battery box exploded drawing
501052REXL0-LA-01 *3	1	V1	18/06/2018	1xXPL 1x18650 iL7R *1
501074RIEXL0-01 *3	1	V0	04/02/2018	501074RIEXL0 *1
501074RIEXL0-A *3	1	V0	04/02/2018	iLH8R (501074RIEXL0) explosive view
* 501074RIEXL0-B *3	1	V2	2019-10-18	501074RIEXL0 battery box exploded assembly drawing
501074RIEXL0-LA-01 *3	1	V1	18/06/2018	1xXPL 18650 iLH8R *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

Number	Sheet	Issue	Date	Title
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
EX4200Y0-11A *4	1	V3	01/09/2017	EX4200Y0 LED ROHS *1
EX4200Y0-15 *4	1	V2	28/08/2017	Ø11.8XP-LED *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
EX4201L0-02 *3	1	V3	15/05/2018	EX4201L0 ROHS *1
EX4201L0-02A *3	1	V3	01/09/2017	EX4201L0 ROHS *1
EX4201L0-03 *3	1	V1	26/01/2018	EX4201L0 ROHS *1
EX4201L0-03A *3	1	V3	10/08/2017	EX4201L0 ROHS *1
EX4201L0-04 *3	1	V2	26/01/2018	EX4201L0 ROHS *1
EX4201L0-05 *3	1 & 2	V0	03/02/2018	EX4201L0 1-shot *1
* EX4201L0-07 *3	1 & 2	V1	2019-10-18	EX4201L0 *1
EX4201L0-A *3	1	V1	05/06/2018	EX4201L0 exploded view assembly
EX4201L0-LA-01 *3	1	V1	15/06/2018	2xAAA 1xXPG2 iL4 *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
EX5836Y0-04 *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
EX5836Y0-14 *2	1	V1	04/08/2017	3xAA *1
EX5836Y0-15 *2	1	V0	04/08/2017	3xAA *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
EX5836Y0-52 *3	1	V0	28/09/2018	iL7 Discharging Unit A
EX5836Y0-53 *3	1	V0	28/09/2018	iL7 Discharging Unit B
EX5836Y0-56 *3	1	V0	28/09/2018	iL7R Discharging Unit A

Number	Sheet	Issue	Date	Title
EX5836Y0-57 *3	1	V0	28/09/2018	iL7R Discharging Unit B
EX5836Y0-B *4	1	V3	18/05/2018	3XAA battery box unit
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-RY0-06 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
EX5837-RY0-08 *4	1	V0	07/08/2017	EX5837-RY0 18650 *1
* EX5837-RY0-16 *4	1	V3	20191018	EX5837-RY0 *1
EX5837-RY0-16A *4	1	V0	13/09/2016	EX5837-RY0 *1
* EX5837-RY0-22 *4	1	V1	2019-10-18	EX7R tube unit
EX5838L0-03 *3	1 & 2	V0	03/02/2018	EX5838L0 *1
EX5838L0-09 *3	1	V0	03/02/2018	EX5838L0 (1-shot) *1
EX5838L0-A *3	1	V2	24/07/2018	iL7 exploded assembly drawing
EX5838L0-LA-01 *3	1	V1	15/06/2018	3xAA 1XXPL iL7 *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
* SC-EX7R-01 *4	1	V0	2019-10-18	EX7R tube
* SC-EX7R-03 *4	1	V0	2019-10-18	Ø2x1.4 O ring
* SC-EX7R-04 *4	1	V0	2019-10-18	SC-EX7R positive charging pin
* SC-EX7R-05 *4	1	V0	2019-10-18	EX7R cathode charging ring
* SC-EX7R-06 *4	1	V0	2019-10-18	Ø2.5 E ring
* SC-EXH8R-01 *4	1	V0	2019-10-18	EXH8R tube

Drawings prefixed with \* are new drawings that are held with IECEx BAS 18.0008 Issue 3.

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 \*3 – Drawing numbers suffixed with \*3 are drawings held with IECEx BAS18.0008 and associated with Baseefa18ATEX0070.

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/ExTR19.0303/00 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
Baseefa18ATEX0070	19 July 2018	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2018 and EN 60079-11:2012 is recorded in GB/BAS/ExTR17.0081/01 for project 16/0864.
Baseefa18ATEX0070 Issue 1	6 November 2018	This issue of the certificate permits resistor changes, to permit other minor electrical and mechanical changes, permits a drawing structure rationalisation, and incorporates previously issued primary & supplementary certificates into one certificate and permits the drawing structure to be rationalised. The associated test and assessment is recorded in GB/BAS/ExTR18.0249/00 (and GB/BAS/ExTR17.0081/02) for project 18/0538.
Baseefa18ATEX0070 Issue 2	12 November 2019	To permit mechanical changes. The associated test and assessment is recorded in GB/BAS/ExTR19.0303/00 for project 19/0516.

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



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BAS 18.0008**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2018-11-08)

Issue 1 (2018-07-19)

Issue 0 (2018-03-02)

Date of Issue: 2019-11-21

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 T<sub>200</sub>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**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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**

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Date of issue: 2019-11-21

Issue No: 3

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

Additional manufacturing locations: **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 equipment 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** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

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

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

[GB/BAS/ExTR19.0303/00](#)

Quality Assessment Report:

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



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 18.0008**

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Date of issue: 2019-11-21

Issue No: 3

## 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**

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Date of issue: 2019-11-21

Issue No: 3

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 3.1

To permit mechanical changes.

ExTR: **GB/BAS/ExTR19/0303/00**

File Reference: **19/0516**