SCANGRIP®
EX PROOF

NOVA-EX R

03.5618 / Certificates

NOVA-EX R is approved and certified by TÜV SÜD according to the ATEX Directive no. 2014/34/EU effective from April 2016 and according to IECEx.

ATEX certificate

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

CERTIFICATE

TÜV SÜD Italia

[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:

TÜV IT 16 ATEX 081 X Rev.1

[4] Equipment or Protective System: Rechargeable work light, model No.: NOVA-EX R 03.5618

[5] Manufacturer: Scangrip A/S

[6] Address: Rytterhaven 9 5700 Svendborg, Denmark

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] TÜV Italia, notified body no. 0948 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. R 16 EX 062 Rev.1

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

EN IEC 60079-0:2018; EN 60079-1:2014; EN 60079-7:2015/A1:2018; EN 60079-18:2015/A1:2017; EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe 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:

II 2G Ex db eb mb IIC T6 Gb

II 2D Ex tb IIIC T85°C Db

This certificate may only be reproduced in its entirety and without any change, schedule included

Issue date: 05th November 2020

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

TÜV Italia Srl Industry Service 09 48 Accredited by

TÜV Italia S.r.l.
Notified body N° 0948

Alberto Carelli
Industry Service – Real Estate & Infrastructure
Managing Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722237264_1

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

[13] **SCHEDULE**

[14] **EU-TYPE EXAMINATION CERTIFICATE**
No. TÜV IT 16 ATEX 081 X Rev.1

Italia

Certificate History

Revision:	Description:	Report rev.:	Issue Date:
-	First issued	-	04/04/2017
1	- Change LED module - Modification of LED driver circuit - Change battery - Change model name - Change power rating - Change T rating - Remove "op is" rating - Standard version upgrade	1	05/11/2020

[15] **Description of equipment**

The explosion-proof light is composed of a light body, a back cover, an adjustable stand, a high boron silicon tempered glass lens, a pressing cover, an explosion proof switch assembly, a power control assembly, a battery pack, a switch assembly, an LED and terminals. Explosion-proof types are Ex db eb mb IIC T6 Gb and Ex tb IIIC T85°C Db. The LED part and the switch assembly are protected by individual flameproof enclosures. The tempered glass and the shell are bonded by a bonding joint surface which width is more than 10mm. The power control assembly is encapsulated. The increased safety chamber is installed with a pre-certified terminal block and an encapsulated power control assembly.

Rated characteristics

Enclosure material	:	Aluminum alloy
Ambient temperature	:	-20 °C ≤ Tamb ≤ 45 °C
Protection degree	:	IP65 (according to EN IEC 60079-0)
Rated voltage/ current (Charging)	:	25.2 d.c./1.5A
Rated power	:	31W
Li-ion Battery	:	ZJ18650 21.6V 3350mAh 72.36Wh

Warning label

1. DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
2. DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.
3. DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATOMOPHERE IS PRESENT.

[16] **Report no.** R 16 EX 062 Rev. 1

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13] **SCHEDULE**

[14] **EU-TYPE EXAMINATION CERTIFICATE**
No. TÜV IT 16 ATEX 081 X Rev.1

Routine tests

1. 500V a.c. between the terminals and housing maintained for 1 minute without dielectric breakdown occurring.
2. Visual inspection according to clause 9.1 of IEC 60079-18:2014

[17] **Special conditions for safe use**

1. Flameproof joints are not intended to be repaired.
2. The ambient temperature range of operation is from -20°C to +45°C.
3. The ambient temperature range of Changing (in non-classified area): 0°C to +45°C.

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents**

Listed documents

Title:	Description:	Pag.	Rev:	Date:
/	Manufacturer's Declaration Of Conformity	1	/	2020/09/29
20217230	Product Drawing	52	1.0	2020/10/27
20217230	BOM	1	/	2020/10/27
10808890	Schematic drawing	1	2.0	2020/10/27
10808890A	PCB layout & BOM	4	2.0	2020/10/27
11323370A	User manual	10	1.0	2020/10/27

One copy of all documents is kept in TÜV Italia files.

This certificate may only be reproduced in its entirety and without any change, schedule included.

IECEx certificate

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

Certificate No.:	**IECEx TPS 17.0001X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2017-03-15)
Date of Issue:	2020-11-04		
Applicant:	**Scangrip A/S** Rytterhaven 9 5700 Svendborg **Denmark**		
Equipment:	**Rechargeable work light/model NOVA-EX R 03.5618**		
Optional accessory:			
Type of Protection:	**Flameproof enclosure "db", increased safety "eb", encapsulation "mb", dust protection by enclosure "tb"**		
Marking:	**Ex db eb mb IIC T6 Gb** **Ex tb IIIC T85°C Db**		

Approved for issue on behalf of the IECEx Certification Body:	**Frank Zhu**
Position:	**Technical Certifier**
Signature: (for printed version)	Frank Zhu
Date:	*2020-11-04*

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 or use of this QR Code.

Certificate issued by:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany

Product Service

IECEx Certificate of Conformity

Date of issue: 2020-11-04 Issue No: 1

Manufacturer: **Scangrip A/S**
Rytterhaven 9 5700 Svendborg
Denmark

Additional manufacturing locations:

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

DE/TPS/ExTR20.0035/00 GB/CML/ExTR17.0054/00

Quality Assessment Reports:

DE/TPS/QAR17.0004/00 DE/TPS/QAR17.0004/01 DE/TPS/QAR17.0004/02
DE/TPS/QAR17.0004/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The explosion-proof light is composed of a light body, a back cover, an adjustable stand, a high boron silicon tempered glass lens, a pressing cover, an explosion proof switch assembly, a power control assembly, a battery pack, a switch assembly, an LED and terminals. Explosion-proof types are Ex db eb mb IIC T6 Gb and Ex tb IIIC T85°C Db. The LED part and the switch assembly are protected by individual flameproof enclosures. The tempered glass and the shell are bonded by a bonding joint surface which width is more than 10mm. The power control assembly is encapsulated. The increased safety chamber is installed with a pre-certified terminal block and an encapsulated power control assembly.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Flameproof joints are not intended to be repaired.
Operation: -20 °C ≤ Tamb ≤ 45 °C
Charging (in non-classified area): 0 °C ≤ Tamb ≤ 45 °C

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change LED module
- Modification of LED driver circuit
- Change battery
- Change model name
- Change power rating
- Change T rating
- Remove “op is” rating
- Standard version upgrade

IECEx Certificate of Conformity

Additional information:
Warning label

1. DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
2. DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.
3. DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATOMOSPHERE IS PRESENT.

Routine test

1. Applied 500V ac between the terminals and housing maintained for 1 min without dielectric breakdown occurring
2. Visual inspection according to clause 9.1of IEC 60079-18:2014

IECEx quality assessment report covering entire EX PROOF range

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

QAR Ref. No.: **DE/TPS/QAR17.0004/09**

QAR Free Ref. No.: **70.520.26.001.01**

Status:**Issued**

Details of change: Re-certification audit

Date of issue:**2026-01-22**

Location(s) audited: **Scangrip A/S**
Rytterhaven 9
5700 Svendborg
Denmark

Valid until:**2029-01-14**

Audit date:**2026-01-07**

AEC Lighting Solutions Co., Ltd
2548 Bao'an Highway, Jiading District
Shanghai 201801
China

Issuing ExCB: **TPS - TÜV SÜD Product Service GmbH**

Manufacturer: **Scangrip A/S**
Rytherhaven 9 5700 Svendburg

Location of Manufacturer: **Denmark**

Product information: Ex-LED light

Type of protection: **Ex "d", "e", "i", "m", "t"**

Related QARs:

DE/TPS/QAR17.0004/00
DE/TPS/QAR17.0004/01
DE/TPS/QAR17.0004/02
DE/TPS/QAR17.0004/03
DE/TPS/QAR17.0004/04
DE/TPS/QAR17.0004/05
DE/TPS/QAR17.0004/06
DE/TPS/QAR17.0004/07
DE/TPS/QAR17.0004/08

Related Certificates (manual insertion)::

Related Certificates (automatic linking)::

Related Certificates for previous versions:

IECEx TPS 17.0001X issue: 0
IECEx TPS 17.0001X issue: 1
IECEx TPS 17.0001X issue: 2
IECEx TPS 17.0001X issue: 3
IECEx TPS 17.0002X issue: 0
IECEx TPS 17.0002X issue: 1
IECEx TPS 17.0002X issue: 2
IECEx TPS 17.0003X issue: 0
IECEx TPS 17.0003X issue: 1
IECEx TPS 17.0003X issue: 2
IECEx TPS 18.0017X issue: 0
IECEx TPS 18.0017X issue: 1
IECEx TPS 18.0017X issue: 2
IECEx TPS 18.0018X issue: 0
IECEx TPS 18.0018X issue: 1

Comments: Re-certification audit

ATEX quality assurance notification covering the entire EX PROOF range

Product Service

NOTIFICATION

[1] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

[2] **Equipment or Protective System or Component intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] Notification number:

TPS 17 ATEX Q 54006 0008 Rev. 05

[4] Equipment or Component as listed: see schedule

Protection concepts: see schedule

[5] Manufacturer: Scangrip A/S
Rytterhaven 9 5700 Svendborg, Denmark

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[6] Site(s) audited: Identical as above
Additional production site listed in the confidential audit report

[7] TÜV SÜD Product Service GmbH, notified body no. 0123 in accordance with Article 18 of the Council Directive 2014/34/EU of 26 February 2014, notifies that the manufacturer has a production quality system which complies to Annex IV and VII of the Directive.

[8] This notification is based on the confidential audit with report no. 70.520.26.001.01.

This notification can be withdrawn if the manufacturer no longer satisfies with the requirement of Annex IV.

Results of periodical re-assessment of the quality system are a part of this notification.

[9] This notification is valid until 14.01.2029 and can be withdrawn if the manufacturer does not satisfy the production quality assurance surveillance.

[10] According to Article 16 paragraph 3 of the Directive 2014/34/EU the CE marking shall be followed by the identification no. 0123 identifying the notified body involved in the production control stage.

Certification Body München, 22.01.2026

Ing. Frank Zhu, MSc. : Frank Zhu

Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX2A 054006 0012 Rev. 03

Doc. Name: Temp-ExNBG-TPS-QAN-IV-Rev. 01

A4 / 07.17

TÜV SÜD ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

[11] **SCHEDULE**

Product Service

[12] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

No. TPS 17 ATEX Q 54006 0008 Rev. 05

[13] **List of EU-Type Examination Certificate(s):**

EU-Type Examination Certificate(s)	Equipment or Protective System or Component	Protection Concepts
TÜV IT 16 ATEX 081 X	Electrical equipment Group II Category 2G, 2D Rechargeable work light	Ex "db", "eb", "mb" and "tb"
TÜV IT 16 ATEX 082 X	Electrical equipment Group II Category 2G, 2D AC work light	Ex "db", "eb", "mb" and "tb"
TÜV IT 16 ATEX 083 X	Electrical equipment Group II Category 1G, 1D Or 2G, 2D Handheld rechargeable work light	Ex "ib" or Ex"ia"
*TPS 18 ATEX 054006 0014X	Electrical equipment Group II Category 3G, 3D Rechargeable EX PROOF head lamp with sensor function	Ex "ic"
*TPS 18 ATEX 054006 0015X	Electrical equipment Group II Category 3G, 3D Handheld EX PROOF work light	Ex "ic"

*Included in the assessment based on a voluntary basis. Those products can not be marked with the notified number of TÜV SÜD Product Service GmbH, notified no. 0123 along the CE marking

Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX2A 054006 0012 Rev. 03

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 München • Germany

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

A4 / 07.17

CE Declaration of conformity

CE

SCANGRIP®
INNOVATION FROM DENMARK

EU Declaration of Conformity

Year in which CE Mark was first affixed: 2020

We, Scangrip A/S
Rytterhaven 9
5700 Svendborg
Denmark
Phone no. +45 6320 6320

Declare under our sole responsibility for the product:

Product Range:	**BRAND: SCANGRIP** **NAME: NOVA-EX R** **EQUIPMENT:** Explosion Proof - Rechargeable Work Light, Class III **MARKING:** **II 2G Ex db eb mb IIC T6 Gb** **II 2D EX tb IIIC T85°C Db** Charger: Input 100-240V AC 50/60Hz, Output 25.2V 1.5A DC Class II Battery: 21.6V 3350mAh 72.36wh Li-ion Specifications: Main light 2000/4000lm, IP65, Operating temp range -20° +45° C
Product Code:	**03.5618**

The designated product is in conformity with the essential requirements of the following European Directives and harmonized standards:

Equipment for explosive atmospheres (ATEX) Directive 2014/34/EU

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-7:2015/A1:2018
EN 60079-18:2015/A1:2017
EN 60079-31:2014

Low voltage (LVD) Directive 2014/35/EU

EN 60598-1:2021

Have been subjected to the EU type examination certificate:
We declare under our sole responsibility that the following products fulfill the relevant directives:
ATEX directive 2014/34/EU. The type examination certificate is issued by TÜV Italia SRL, NB 0948, certificate No. TÜV IT 16 ATEX 081 X Rev.1

The manufacture is according to a certificated production quality assurance system.
The QAN certificate is issued by TÜV SÜD Product Service GmbH, NB 0123.

The quality management system ISO 9001:2015 is certified:
Bureau Veritas, Certificate Nr. DK014205

This declaration of conformity is issued under our sole responsibility.

Date: 30.01.2023

Jasar Elezaj
Quality Manager & Ex-protection representative

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ATEX Ex Marking:

II 2G Ex db eb mb IIC T6 Gb
II 2D EX tb IIIC T85°C Db

Ex symbol explanation

SYMBOL	MEANING
CE	The symbol reported complies with annex X of the directive 2014/34/EU and identify that the product meets the essential Health and Safety Requirement of the directive
Ex	Specific symbol of ATEX directive 2014/34/EU, given in the Annex II of the directive
II	Group of the equipment. Group II refers to equipment for use in an explosive gas & dust atmosphere other than mines susceptible to firedamp
2	Category of the equipment subjected of certification, category 2
G	Presence of potentially explosive atmospheres of gas, vapours, mist
D	Presence of potentially explosive atmospheres of dusts and flyings
Ex db eb mb	Type of protection where the parts that can ignite an explosive gas atmosphere are placed in an enclosure that can with stand the pressure developed during an internal explosion of an explosive mixture and can prevent the transmission of the explosion to the outside ambience
EX tb	Type of protection for explosive dust atmospheres where electrical equipment is provided with an enclosure providing dust ingress protection and a means to limit surface temperature
IIC	Group of gas for which the equipment is suitable
IIIC	Group of dust for which the equipment is suitable
T6	classification system of Ex Equipment, based on its maximum surface temperature, related to the specific explosive gas atmosphere for which it is intended to be used
T85°C	The limit for maximum surface temperature where a equipment is installed in explosion atmospheres dust
Gb	equipment for explosive gas atmospheres, having a "high" Level of Protection, which is not a source of ignition in normal operation or during expected malfunctions
Db	equipment for explosive dust atmospheres, having a "high" Level of Protection, which is not a source of ignition in normal operation or during expected malfunctions
Cert.N0.xxxxx	EU -type examination number issued by the Notified Body involved in verification of Annex III of directive 2014/34/EU. Certificate number issued by the Certified Body involved in verification according to IECEx scheme 02

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// SCANGRIP A/S Rytterhaven 9 DK-5700 DENMARK