

NOVA-EX R

03.5601 / 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





Italia

CERTIFICATE

[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

[4] Equipment or Protective System: Rechargeable work light, model: NOVA-EX R 03.5601

[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 02

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

EN 60079-0 : 2012 + A11 : 2013 EN 60079-1 : 2014 EN 60079-7 : 2015
EN 60079-18 : 2015 EN 60079-28 : 2015 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 op is IIC T4 Gb	-20 °C ≤ Tamb ≤ 45 °C
	II 2D	Ex tb IIIC T85°C Db IP65	-20 °C ≤ Tamb ≤ 45 °C

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

Issue date: 04th April 2017



SOD N° 0044 SD N° 0000 BIP N° 0076
SQA N° 0140 ITA N° 0011 LAB N° 0078
SOR N° 005F SOE N° 213M PRO N° 0019
SMAE N° 013P PSE N° 077C

Membri degli Accordi di Mutuo Riconoscimento
EA, IAF e IAC
Signatory of EA, IAF and IAC Mutual
Recognition Agreements



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

Paolo Marcone
Paolo Marcone

Notified Body 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 T22-20169

page 1 of 4

[13]

SCHEDULE



Italia

[14]

 EU-TYPE EXAMINATION CERTIFICATE
 no. TÜV IT 16 ATEX 081 X

Certificate History

Revision:	Description:	Report no:	Issue Date:
-	First Emission	0	04/04/2017

[15] Description of equipment

The explosion-proof light is composed of light body, back cover, adjustable stand, high boron silicon tempered glass lens, pressing cover, explosion proof switch assembly, power control assembly, battery pack, switch assembly, LED terminals. Explosion-proof type is Ex db eb mb op is II C T4 GbI Ex tb III C T85°C Db. The febrile LED part and Ignition switch assembly use the method of Ex d Type. The tempered glass and shell are bonded by bonding joint surface which width is more than 10mm. The power control assembly is casting sealed. The increased safety chamber is installed with Weidmuller ATEX terminal, battery pack assembly, power control assembly.

Rated characteristics

Enclosure material	Aluminum alloy
Ambient temperature	-20 °C ≤ Tamb ≤ 45 °C
Protection degree	IP65
Rated voltage/current	21.6V/1A d.c.
Rated power	14W
Battery	DISON IFR18650, 19 2V(6 x 3.2V), 1400mA

Warning label

- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
- DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION.
- DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.

[16] Report no. R 16 EX 062

Routine test

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

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

Italia

[17] Special conditions for safe use

Flameproof joints are not intended to be repaired.

Operation: $-20\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 45\text{ }^{\circ}\text{C}$ Charging (in non-classified area): $0\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq 45\text{ }^{\circ}\text{C}$

[18] Essential Health and Safety Requirements

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

[19] Drawings and Documents

Listed documents (prot. 722129186)

Title:	Description:	Pages:	Rev:	Date:
-	Product description	5	-	-
20204830	Detail refer to appendix 1	1	1.0	09/03/2016
10408220	Ex aluminium main part	1	1.0	09/03/2016
10303710	Ex quakeproof ring of housing	1	1.0	09/03/2016
10408240	Ex rear housing	1	1.0	09/03/2016
10408230	EX bracket-lower	1	1.0	09/03/2016
10408740A	EX bracket-left	1	1.0	09/03/2016
10408750A	EX bracket-right	1	1.0	09/03/2016
10408250	flange	1	1.0	09/03/2016
11101270	Ex lens	1	1.0	09/03/2016
10303870	EX waterproof bar of rear housing	1	1.0	09/03/2016
10230740A	EX reflector	1	1.0	09/03/2016
10303890	EX waterproof ring of lens-upper	1	1.0	09/03/2016
10303880	EX waterproof ring of lens-lower	1	1.0	09/03/2016
10303750	EX handle	1	1.0	09/03/2016
10230750A	EX terminal frame	1	1.0	09/03/2016
10230220	EX pick gear A	1	1.0	09/03/2016
10230230	EX pick gear B	1	1.0	09/03/2016
10408430	EX spring	1	1.0	09/03/2016
11004880	EX LED	1	1.0	09/03/2016
10231120A	EX small ply-yarn drill-a	1	1.0	09/03/2016
10231130A	EX small ply-yarn drill-b	1	1.0	09/03/2016
10303940	EX seal ring	1	1.0	09/03/2016
30113550	EX flameproof switch part	1	1.0	09/03/2016

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[13]

[14]

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE
no. TÜV IT 16 ATEX 081 X



Italia

10408350	EX flameproof switch housing	1	1.0	09/03/2016
10408370	EX flameproof axle	1	1.0	09/03/2016
10408390	EX fixed link stopper	1	1.0	09/03/2016
10408360	EX button cap	1	1.0	09/03/2016
10408380	EX spring of flameproof axle	1	1.0	09/03/2016
10303910	EX O-ring	1	1.0	09/03/2016
30113560	EX switch part	1	1.0	09/03/2016
10230200	EX switch box	1	1.0	09/03/2016
10230210	EX switch box-upper cover	1	1.0	09/03/2016
10230240	EX power box cover	1	1.0	09/03/2016
10230250	EX power box main part	1	1.0	09/03/2016
30118610	Content of nameplate of power box	1	1.0	09/03/2016
10230260	EX battery box-upper cover	1	1.0	09/03/2016
10230270	EX battery box-upper cover	1	1.0	09/03/2016
30113630	EX Li-ion battery pack	1	1.0	09/03/2016
30118640	Nameplate of battery box	1	1.0	09/03/2016
11245620A	Nameplate of Light	1	1.0	09/03/2016
10303530	Ex water resistance cover	1	1.0	09/03/2016
10104870	Power cord	1	1.0	09/03/2016
10804710	EX wire	1	1.0	09/03/2016
10232630A	EX Plastic head	1	1.0	09/03/2016
10231330A	EX Left and Right block	1	1.0	09/03/2016
20404830	NOVA-EX R-03 5601-BOM	2	1.0	09/03/2016
20404830	NOVA-EX R-03 5601-Drawing	46	1.0	09/03/2016
11245640A	NOVA-EX R-03 5601-Instruction	12	1.0	09/03/2016
10408220	Metal Part-ADC12-Heat Sink	3	1.0	09/03/2016
10305010A	Amistatic rubber parts	2	-	09/03/2016
10305020A	HY865EB			
10303870	Rubber Part XHG151-55 XHG151-75-silicon	3	-	09/03/2016
30113630	Li-ion Battery-DISON IFR18650 3.2V,2600mAh 8.96Wh	10	A0	09/03/2016
10804940A	PCBA- NOVA-EX R 03 5601	8	-	19/04/2016
11400061A	Pouring sealant-PU552FL	4	-	09/03/2016
/	Specification sheet of terminal block	6	-	-

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

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IECEx certificate






IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX TPS 17.0001X	Issue No: 0	Certificate history: Issue No. 0 (2017-03-15)
Status:	Current	Page 1 of 4	
Date of Issue:	2017-03-15		
Applicant:	Scangrip A/S Rytterhaven 9 5700 Svendborg Denmark		
Equipment:	Rechargeable work light		
Optional accessory:			
Type of Protection:	Ex db, eb, mb, op ia, Ib		
Marking:	Ex db eb mb op ia IIC T4 Gb -20 °C ≤ Tamb ≤ 45 °C Ex Ib IIIC T85°C Db IP65 -20 °C ≤ Tamb ≤ 45 °C		
Approved for issue on behalf of the IECEx Certification Body:		Frank Zhu	
Position:		Technical Certifier	
Signature: (for printed version)			
Date:		2017-3-15	

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 the [Official IECEx Website](#).

Certificate issued by:

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



Product Service



IECEx Certificate of Conformity

Certificate No: IECEx TPS 17.0001X Issue No: 0
Date of Issue: 2017-03-15 Page 2 of 4
Manufacturer: Scangrip A/S
Rytterhaven 9 5700 Svendborg
Denmark

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:5.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"
IEC 60079-26 : 2014 Edition:2	Explosive atmospheres - Part 26: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with electrical 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 Report:

[GB/CML/ExTR17.0054/00](#)

Quality Assessment Report:

[DE/TPS/QAR17.0004/00](#)



IECEx Certificate of Conformity

Certificate No: IECEx TPS 17.0001X

Issue No: 0

Date of Issue: 2017-03-15

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The explosion-proof light, model NOVA-EX R 03.5601 is composed of light body, back cover, adjustable stand, high boron silicon tempered glass lens, pressing cover, explosion proof switch assembly, power control assembly, battery pack, switch assembly, LED terminals. Explosion proof type is Ex db db mb op II C T1 Gb/ Ex Ib III C T80°C Db. The fiber optic LED port and ignition switch assembly use the method of Ex d Type. The tempered glass and shell are bonded by bonding joint surface which width is more than 10mm. The power control assembly is casting sealed. The increased safety chamber is installed with Weidmuller ATEX terminal, battery pack assembly, power control assembly.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Flameproof joints are not intended to be repaired.

Operation: $-20^{\circ}\text{C} \leq T_{amb} \leq 45^{\circ}\text{C}$

Charging (in non-classified area): $0^{\circ}\text{C} \leq T_{amb} \leq 45^{\circ}\text{C}$



IECEX Certificate of Conformity

Certificate No: IECEX TPS 17.0001X

Issue No: 0

Date of Issue: 2017-03-15

Page 4 of 4

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 ATMOSPHERE 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 9.1 of IEC 60079-18:2014

**ATEX quality assurance notification covering the
entire EX PROOF range**





Product Service

NOTIFICATION

- (1) **PRODUCT 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 008 Issue 1

- (4) Equipment or Component as listed: see schedule
Protection concepts: see schedule

- (5) Manufacturer: Scangrip A/S
Rytterhaven 9 5700 Svendborg, Denmark



- (6) Site(s) audited: Scangrip A/S
Rytterhaven 9 5700 Svendborg, Denmark

- (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 VII of the Directive.

- (8) This notification is based on the confidential audit with report no. 64197170059401.

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

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

- (9) This notification is valid until 07.02.2020 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 office of explosion proof products

München, 12-04-2017



Ing. Kristof De Gerssem, MSc.
(On behalf of)



Page 1 / 2

Certificates without signature and official stamp 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: EX3A 17 03 54006 008.

TÜV SÜD Product Service GmbH · Zertifizierstelle · Ridlerstraße 65 · 80339 München · Germany

TÜV®



Product Service

[11] **SCHEDULE**
 [12] **PRODUCT QUALITY ASSURANCE NOTIFICATION**

No. TP5 17 ATEX Q 54006 008 Issue 1

[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", "op is" and "tb"
TÜV IT 16 ATEX 082 X	Electrical equipment Group II Category 2G, 2D AC work light	Ex "db", "eb", "mb", "op is" and "tb"
TÜV IT 16 ATEX 083 X	Electrical equipment Group II Category 2G, 2D Handheld rechargeable work light	Ex "tb" and "op is"

Page 2 / 2

Certificates without signature and official stamp shall not be valid. The Certificates may only be circulated in full including its extracts and/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: EX3A 17 03 54006 008.

IECEX quality assessment report covering entire
EX PROOF range





IECEX Quality Assessment Report

QAR Reference No.	DE/TPS/QAR17.0004/00	Status	Current
QAR Free Ref. No.	64.197.17.00595.01		
Audit Date	Date of issue	Valid until	
2017-02-08	2017-04-12	2020-02-07	
Detail of change			
Site(s) audited	Scangrip A/S,Rytterhaven 9 5700 Svendborg,Denmark		
Issuing ExCB	TPS - TÜV SÜD Product Service GmbH		
Manufacturer	Scangrip A/S,Rytterhaven 9 5700 Svendborg,Denmark		
Country of Manufacture	Denmark		
Product information	Ex-LED light		
Protection concept	Ex "db", "eb", "ib", "mb", "op is", "tb"		
Related QARs	DE/TPS/QAR17.0004/00		
Related Certificates (manual insertion)	None		
Related IECEx Certificates	ExCB		
Comment	None		
Annexes	(iecex/iecexweb.nsf/0/731A3741C8EF79CAC12580E90013B582/\$file/)		

CE Declaration of conformity



Scangrip Lighting



Declaration of Conformity

Year in which CE Mark was first affixed: 2017

We, Scangrip A/S

Rytterhaven 9
5700 Svendborg
Denmark
Phone no. +45 6320 6320

Declare under our responsibility for the product:

Product Range:	BRAND: SCANGRIP NAME: NOVA-EX R EQUIPMENT: Explosion Proof - Rechargeable Work Light, Class III MARKING: II 2 G Ex db eb mb op is II C T4 Gb II 2 D EX tb III C T85°C Db IP65 Charger: Input 100-240V AC 50/60Hz, Output 21.6V 1A DC Class II Battery: 19.2V 1400mAh Lithium iron phosphate battery Specifications: Main light 750/1500Lm, IP65, Operating temp range -20° +45° C
Product Code:	03.5601

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

Satisfy to the requirement of the ATEX Directive 2014/34/EU from 20th April 2016 by compliance with harmonized standards:

EN 60079-0:2012+A11:2013
EN 60079-1:2014
EN 60079-7:2015
EN 60079-18:2015
EN 60079-28:2015
EN 60079-31:2014

Low voltage (LVD) Directive 2014/35/EU

EN 60598-1:2015

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.

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(2008) is certified:
Nordic Certification, Certificate Nr. DK9001-85996

This declaration of conformity is issued under our sole responsibility.

Date: 28.03.2017


Anders Borring
Managing Director and Owner



SCANGRIP.COM



DESIGNED BY
SCANGRIP
IN DENMARK

V1/25.04.2017/ke