

UNI-EX

03.5600/03.5600AU/03.5600UK / Certificates

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





CERTIFICATE



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 083 X Rev.2

[4] Equipment or Protective System: Handheld rechargeable work light, Model: UNI-EX03.5600

[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 064


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

EN 60079-0:2012 + A11:2013 ; EN 60079-11:2012 ; EN 60079-28:2015

[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 ib op is IIC T4 Gb
II 2D Ex ib IIIC T120°C Db
 or
II 1G Ex ia op is IIC T3 Ga
II 1D Ex ia IIIC T120°C Da

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

Issue date: 17th May 2019



PRD N° 081B

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



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


Alberto Carilli

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 systems intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722196339.

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[13]

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 16 ATEX 083 X Rev.2
Certificate History

Revision:	Description:	Report rev.:	Issue Date:
-	First Emission	-	04/04/2017
1	Modification of Ex rating	1	31/012018
2	Modification of Ex rating Modification of Construction	2	17/05/2019

[15] **Description of equipment**

Handheld rechargeable work light part is composed of shell, foldable stand, LED module, intrinsically circuit control board, battery pack and hook assembly. The light is with rechargeable lithium iron phosphate battery.
The switch is at back of light, with Low-High-OFF three modes. There is battery capacity indication at back of light, for checking the capacity at any time.

Rated characteristics

Enclosure material	Plastic
Ambient temperature	-20 °C ≤ Tamb ≤ +45 °C
Protection degree	IP65(according to EN 60529)
Rated voltage/current	5V/2A d.c.
Rated power	2.5W
Battery	DISON IFR18650, 3.2V, 2800mAh

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 064****Routine tests**

None.

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[13] SCHEDULE

[14] EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 16 ATEX 083 X Rev.2

[17] Special conditions for safe use

Operation: $-20\text{ °C} \leq \text{Tamb} \leq +45\text{ °C}$ Charging (in the nonclassified area): $0\text{ °C} \leq \text{Tamb} \leq +45\text{ °C}$

[18] Essential Health and Safety Requirements

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

[19] Drawings and Documents

Listed documents (prot. 722129189 + 722155415 + 722196339)

Title:	Description:	Pages:	Rev:	Date:
/	Production description	4	/	/
20204810	General Assembly Drawing	1	2.0	10/08/2018
30113470	EX charging base part	1	2.0	20/12/2018
10229950	EX charging base housing	1	1.0	15/03/2016
10229960	EX cover of charging base	1	1.0	15/03/2016
10804530	PCB board	1	1.0	15/03/2016
10405760	beryllium bronze	1	1.0	15/03/2016
10229780	front housing part	1	2.0	08/08/2018
10230890A	upper cover of housing	1	2.0	08/08/2018
10229800	front lens	1	1.0	15/03/2016
10408510A	front housing insert	1	1.0	15/03/2016
10230050	Top lens	1	1.0	15/03/2016
10229850	EX front gadget	1	1.0	15/03/2016
10230900A	EX rear housing part	1	2.0	08/08/2018
10230910A	EX rear housing	1	2.0	08/08/2018
10503720A	copper sheet (insert)	1	2.0	25/04/2017
10229840	EX cover of battery capacity indicator	1	1.0	15/03/2016
10229830	EX protection cover of charging socket	1	1.0	15/03/2016
10304110A	EX O ring	1	1.0	15/03/2016

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PEX-01-M002_008 (en) 07/08/2018

[13]

SCHEDULE



[14]

EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 16 ATEX 083 X Rev.2

30113450	battery part	1	1.0	15/03/2016
10229910	EX upper housing of battery box	1	1.0	15/03/2016
10232410A	EX lower housing of battery box	1	1.0	15/03/2016
10229790	EX upper housing of bracket	1	2.0	08/08/2018
10230920A	EX lower housing of bracket	1	2.0	08/08/2018
10241790A	EX plastic parts	1	1.0	31/01/2019
10303790	EX silicone pick gear	1	1.0	15/03/2016
10408580A	EX magnet board	1	1.0	15/03/2016
10408570A	EX magnet	1	1.0	15/03/2016
11245650A	EX label of bracket magnet	1	1.0	15/03/2016
11008030A	EX top LED board part	1	1.0	15/03/2016
10229820	EX top reflection cup	1	1.0	15/03/2016
11008060A	EX top light board	1	1.0	15/03/2016
11008090A	3535LED (CREE XP-E2)	1	1.0	15/03/2016
11008040A	EX front LED board part	1	1.0	15/03/2016
11004940	LED	1	1.0	15/03/2016
10229810	EX front reflection cup	1	1.0	15/03/2016
10303800	EX button cap	1	1.0	15/03/2016
10408280	EX heat sink	1	1.0	15/03/2016
10231050A	EX hook part	1	1.0	15/03/2016
10229860	EX hook pressing plate	1	1.0	15/03/2016
10229870	EX hook	1	1.0	15/03/2016
30118570	content of battery box	1	1.0	15/03/2016
11251340A	content of lamp	1	1.0	15/03/2016
11261940A	content of lamp	1	1.0	21/08/2017
10231220A	EX PCB Insulating sheet	1	1.0	15/03/2016
10408280	Metal Part-ADC12-Heat Sink	1	2.0	28/05/2018
10230890A	Plastic Part-AA757-AA345-AD000D-Housing	1	1.0	15/03/2016
10304110A	Rubber Part XHG151-55.XHG151-75-O ring	1	1.0	15/03/2016

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PEX-01-M002_r08 del 07/08/2018



[13]

SCHEDULE

[14]

EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 16 ATEX 083 X Rev.2

10804900A-7	PCB Schematic	1	4.0	04/03/2019
10804900A-1	PCB BOM	1	2.0	04/03/2019
10804900A-2	PCB dimension	1	1.0	07/04/2016
10804900A-3	PCB copper layer, top	1	1.0	07/04/2016
10804900A-4	PCB copper layer, bottom	1	1.0	07/04/2016
10804900A-5	PCB Silk	1	1.0	07/04/2016
10804900A-6	PCB Layout	1	1.0	07/04/2016
10700830A	Li-Ion Battery-DISON IFR18650 3.2V,2800mAh 8.96Wh	10	A0	14/05/2016
20204810	UNI-EX 03.5600-BOM	1	2.0	08/10/2018
11248342A	UNI-EX-03.5600-Instruction	9	2.0	30/01/2019

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 17.0003X	Issue No: 1	Certificate History: Issue No. 1 (2019-03-18) Issue No. 0 (2017-03-15)
Status:	Current	Page 1 of 5	
Date of Issue:	2019-03-18		
Applicant:	Scangrip A/S Rytterhaven 9 5700 Svendborg Denmark		
Equipment:	Handheld rechargeable work light/model: UNI-EX03.5800		
Optional accessory:			
Type of Protection:	Intrinsic safety "I", optical radiation "op is"		
Marking:	Ex ib op is IIC T4 Gb Ex ib IIIC T120°C Db or Ex ia op is IIC T3 Ga Ex ia IIIC T120°C Da		
Approved for issue on behalf of the IECEx Certification Body:		Ing. Kristof De Gerssem MSC.	
Position:		Technical Certifier	
Signature: (for printed version)			
Date:		2019-03-18	

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](http://www.iecex.com).

Certificate issued by:

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



Product Service



IECEx Certificate of Conformity

Certificate No: IECEx TPS 17.0003X Issue No: 1
Date of Issue: 2019-03-18 Page 2 of 5
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 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:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

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:

DE/TPS/EXTR18.0014/00 GB/CML/EXTR17.0061/00

Quality Assessment Report:

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



IECEx Certificate of Conformity

Certificate No: IECEx TPS 17.0003X

Issue No: 1

Date of Issue: 2019-03-18

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Handheld rechargeable work light, model UNI-EX03.5600 is composed of shell, foldable stand, LED module, intrinsically circuit control board, battery pack and hook assembly. The light is with rechargeable lithium iron phosphate battery.

The switch is at back of light, with Low-High-OFF three modes. There is battery capacity indication at back of light, for checking the capacity at any time.

PCB is full encapsulated.

There is a charging base as accessory to the working light, to be used with a separate battery charger.

Charging should be in a non-hazardous area.

Rating:

Supplied by battery pack

3.2V, 2800mAh (DISON IFR18650)

Protection degree: IP65 according to IEC 60529

Rated voltage: 5V d.c. (Charging)

Rated current: 2A d.c. Max (Charging)

SPECIFIC CONDITIONS OF USE: YES as shown below:

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

Charging (in the nonclassified area): $0^{\circ}\text{C} \leq T_{\text{amb}} \leq 45^{\circ}\text{C}$

Only use the battery charger and the charging base from Scangrip to charge the LED work light.

U_{in} of battery Charger: 250V a.c., U_{c} of charging base: 6.93V d.c.



IECEx Certificate of Conformity

Certificate No: IECEx TPS 17.0003X

Issue No: 1

Date of Issue: 2019-03-18

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

1. The Ex marking is changed from

'Ex ib op is IIC T4 Gb ; Ex ib IIIC T120°C Db'

to

'Ex ia op is IIC T3 Gs ; Ex ia IIIC T120°C Da or

Ex ib op is IIC T4 Gb ; Ex ib IIIC T120°C Db'

2. The rating of fuse is modified as 1.6A.

3. The PCB is encapsulated.

4. Alternative housing materials are included.



IECEX Certificate of Conformity

Certificate No: IECEx TPS 17.0003X

Issue No: 1

Date of Issue: 2019-03-18

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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.

**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 008 Issue 3

[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 IV and VII of the Directive.

[8] This notification is based on the confidential audit with report no. 64197170059404.

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

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

[9] This notification is valid until 14.01.2023 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.

On Behalf Of The Certification Body

München, 31.03.2020

Ing. Kristof De Gerssem, MSC.

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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. 01

Doc. Name: Tps17-0003 Tps-0001 Rev. 01

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

TÜV®



Product Service

[11] **SCHEDULE**

[12] **PRODUCTION QUALITY ASSURANCE NOTIFICATION**

No. TPS 17 ATEX Q 54006 Issue 3

[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 Rev.2	Electrical equipment Group II Category 1G, 1D Or 2G, 2D Handheld rechargeable work light	Ex "b" and "op is" or Ex"ia" and "op is"
TPS 18 ATEX 054006 0014X Rev.00*	Electrical equipment Group II Category 3G, 3D Rechargeable EX PROOF head lamp with sensor function	Ex "c"
TPS 18 ATEX 054006 0015X Rev.00*	Electrical equipment Group II Category 3G, 3D Handheld EX PROOF work light	Ex "c"

*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

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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/QAR17.0004/03	Page 1 of 1
QAR Free Ref. No.:	64.197.17.00595.04	Status: Issued
Details of change:	Re-certification audit	Date of issue: 2020-03-31
Site(s) audited:	Scangrip AIS Rytterhaven 9 5700 Svendborg Denmark	Valid until: 2023-03-31 Audit date: 2020-03-31
Issuing ExCB:	TPS - TÜV SÜD Product Service GmbH	
Manufacturer:	Scangrip AIS Rytterhaven 9 5700 Svendborg Denmark	
Location of Manufacturer:	Denmark	
Product information:	Ex-LED light	
Protection concept:	Ex "d", "e", "i", "m", "op is", "t"	
Related QARs:		
	DE/TPS/QAR17.0004/00	DE/TPS/QAR17.0004/01 DE/TPS/QAR17.0004/02
Related Certificates (manual insertion):		
Related Certificates (automatic linking):		
Related Certificates for previous versions:		
	IECEx TPS 17.0001X issue: 0 IECEx TPS 17.0003X issue: 1	IECEx TPS 17.0002X issue: 0 IECEx TPS 18.0017X issue: 0
		IECEx TPS 17.0003X issue: 0 IECEx TPS 18.0018X issue: 0
Comments:		

CE Declaration of conformity



Scangrip Lighting



Declaration of Conformity

Year in which CE Mark was first affixed: 2019

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: UNI-EX EQUIPMENT: Explosion Proof - Handheld rechargeable work light, Class III
	MARKING: II 1G Ex ia op is IIC T3 Ga II 1D Ex ia IIC T120°C Da IP65
	Charger: Input 100-240V AC 50/60Hz, Output 5V 2A DC Class II Battery: 3,2V 2800mAh Lithium iron phosphate battery Specifications: Main light 150/300Lm, Spot light 95Lm, IP65, Operating temp range -20° +45° C
Product Code:	03.5600

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 60779-0:2012+A11:2013
EN 60779-11:2012
EN 60779-28:2016

Low voltage (LVD) Directive 2014/35/EU

EN 60598-1:2016
EN 60598-2-4:1997
EN 62471:2009
EN 62483: 2010

Electromagnetic compatibility Directive (EMC), 2014/30/EU

EN 55015:2013
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 61547:2009

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 083 X Rev. 2.

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. DK009406

This declaration of conformity is issued under our sole responsibility.

Date: 14.08.2019


Anders Borrning
Managing Director and Owner



SCANGRIP.COM



DESIGNED BY
SCANGRIP
IN DENMARK

V 4/30.06.2020/kks