

## MIDI-EX

#### 03.5611/03.5611AU/03.5611UK / Certificates

MIDI-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.





### ATEX certificate





#### (1) Type Examination Certificate

- (2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 2014/34/EU
- (3) Type Examination Certificate Number:



#### TPS 18 ATEX 054006 0015 X Rev. 01

(4) Equipment or Protective System:

Rechargeable handheld EX PROOF work light - Type: MIDI-EX 03.5611

- (5) Manufacturer: Scangrip A/S
- (6) Address: Rytterhaven 9 5700 Svendborg, Denmark
- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (6) TÜV SUD Product Service GmbH 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 the confidential reports with no. 64.105.18.01824.01 and 64105180182402.

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

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

- (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 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 3G Ex ic IIC T5 Gc II 3D Ex ic IIIC T100°C Dc

Certification Body

München, 18.01.2023

Ing. Frank Zhu, MSc.

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Doc. Name: Temp-ExR8G-TPS-Type-Cent-Rev. 92

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

TÜV®

(13)

Schedule



(14)

Type Examination Certificate no.

#### TPS 18 ATEX 054006 0015 X Rev. 01

#### **Certificate History**

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	64.105.18.01824.01	16.11.2018
Rev. 01	Updated the latest reversion of Standards in certificate, DOC and User manual.	64105180182402	18.01.2023

#### (15) <u>Description of equipment:</u>

The rechargeable handheld EX PROOF work light is designed as type 'ic' and protected by an enclosure with IP65 degree.

The work light contains covers, folding bracket, LED module, control circuit module, battery pack, clip module. It has functions of top spot lighting and front flood light.

The covers and bracket are made with hijection moulding process with anti-static ASNAB-YC-resin. The covers and bracket is yellow colour, clip and decorative part is yellow colour. The top and front transparent part are made with double injection moulding process with PC-AII external fasteners are with material of 304 statiness steel. The heat sink for LED is made by ADC12 Aluminium alloy with die cast process. LED control circuit is 1.3. circuit. The light has dig to top to realize convenient usage on working site. A magnet is assembled at bottom of folding bracket to realize convenient usage on working site. The battery pack contains a rechargeable L-Jion Battery, with two options of the battery manufacturers. The light has a switch at backside to control light ord/off with four levels — top spot light, flood light low power, flood light high power and off. There is a charging port at lower part of backside, which can be opened only by tool, and the cover in charging using taketor - indicator LED shows red during charging and turns to be green when the battery is fluy charged.

Charging should be in a safe area.

Technical data:

Enclosure material	Plastic
	-10 °C ≤ Tamb ≤ 45 °C* or
Ambient temperature	-20 °C ≤ Tamb ≤ 45 °C**
Protection degree	IP65 (tested according to IEC/EN 60529)
Rated voltage/current	5V/0.5A d.c. (Charging)
Rated power	1.6W
Battery	WT 902554-1S, 3.8V, 1600mAh, 6.08Wh or ZJ902554, 3.8V, 1600mAh, 6.08Wh

for head lamp with battery WT 902554-1S

\*\*for head lamp with battery ZJ902554

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Doc. Name: Tang-Ex/JBG-TPS-Type-Cert-Rev. 42

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Schedule



(14)

Type Examination Certificate no.

#### TPS 18 ATEX 054006 0015 X Rev. 01

#### Warning label:

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

#### Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (18) Special conditions for safe use.

(16) Test report(s): 64.105.18.01824.01 and 64105180182402.

Routine tests: None

Document List:

File no.:	Description:	Pages:	Rev:	Date:
/	Manufacturer's Declaration Of Conformity (Draft)	1	1	2023-01-16
20212460	product drawing	3	1.0	2018-10-24
30130430	Rating label	1	1.0	2018-10-24
20212460	BOM	1	1.0	2018-10-24
10806790A-1	-EX ALS Handlight Control board BOM	1	1.0	2018-07-20
10806790A-3	-EX ALS Handlight control board multiple layers layout	1	1.0	2018-07-20
10806790A-4	- EX ALS Handlight schematic drawing of control board and reaction board	1	1.0	2018-07-20
11273164A	User INSTRUCTION	8	1.0	2023-01-16

A copy of the full documentation is kept confidentially at TÜV SÜD.

#### (17) Special conditions for safe use:

1. Charging (in a non-classified area): 0°C ≤ Tamb ≤ 45 °C

2. Only use the battery charger from Scangrip to charge the straight folding LED work light.

(18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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Doc. Name: Temp-ExHEG-TPS-Type-Deti-Rev. (2)

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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 18.0018X		Issue No: 0	Certificate history:	
Status:	Current			Issue No. 0 (2018-12-12)	
Date of Issue:	2018-12-12		Page 1 of 3		
Applicant:	Scangrip A/S Rytterhaven 9 5700 Svendborg Denmark				
Equipment: Optional accessory:	Rechargeable handheld EX PROOF work light	- Type: MIDI-EX 03.5611			
Type of Protection:	Intrinsic Safety				
Marking:	Ex ic IIC T5 Gc				
	Ex ic IIIC T100°C Dc				
Approved for issue of Certification Body:	n behalf of the IECEx	Ing. Kristof De Gersem	MSc.		
Position:		Technical Certifier			
Signature: (for printed version)		they	Ment 14	)	
Date:					
This certificate and schedule may only be reproduced in full.     This curificate is not transferable and remains the property of the issuing body.     The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.     Certificate issued by:					
	V SÜD Product Service GmbH	_			
	Ridlerstr. 65 D-80339 Munich	TUV			
	Germany	300			
		Product Service			



## IECEx Certificate of Conformity

Certificate No:	IECEx TPS 18.0018X	Issue No: 0
Date of Issue:	2018-12-12	Page 2 of 3
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 manufacture'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 20 and Operational Documents as annehode.

#### 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"

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/ExTR18.0013/00

#### Quality Assessment Report:

DE/TPS/QAR17.0004/00

DE/TPS/QAR17.0004/01

	a	IECEx Certificate of Conformity	
Certificate No:	IECEx TPS 18.0018X	Issue No: 0	
Date of Issue:	2018-12-12	Page 3 of 3	
		Schedule	

#### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The rechargeable handheld EX PROOF work light is designed as type 'ic' and protected by an enclosure with IP65 degree.

The work light contains covers, folding bracket, LED module, control circuit module, battery pack, clip module. It has functions of top spot lighting and front flood light.

The covers and bracket are made with injection moulding process with anti-static ABSABs+PC resin. The covers and bracket is yellow coolur, clip and decorative part is yellow colour. The top and front transparent part are made with double injection moulding process with PCA. All external lasteners are with material of 304 stainless steel. The heat sink for LED is made by ADC12 Aluminium allow with die case process. LED control circuit II. S.: Carult. The light has a start and to a top the rails contenting and angent is assembled at bottom of folding bracket to realize convenient usage on working site. The battery pack contains a notangent is assembled at bottom of folding bracket to realize convenient usage on working site. The battery pack contains a notangent is assembled to a start the options of the battery manufactures. The light has a start and backets to control light and of with four levels – tops clipsting, flow the charging port is with 805S Aluminium alloy. The light is a starting the charging status indication function – indicator LED shows red during charging port is with 805S Aluminium alloy. The light is a designed with charging status indication function – indicator LED shows red during charging and turns to be green when the battery is fully charged.

#### Charging should be in a safe area.

Technical data:		
Enclosure material	:	Plastic
Ambient temperature	:	-10 °C ≤ Tamb ≤ 45 °C* or
		-20 °C ≤ Tamb ≤ 45 °C**
Protection degree	:	IP65 (tested according to IEC/EN 60529)
Rated voltage/current	:	5V/1.5A d.c. Max. (Charging)
Rated power	:	1.6W
Battery	:	WT 902554-1S, 3.8V, 1600mAh, 6.08Wh or
		ZJ902554, 3.8V, 1600mAh, 6.08Wh
*for work light with battery WT 902554-	1S	
**for work light with battery ZJ902554		

Warning label:

1. DO NOT CHARGE THE BATTERY IN HAZARDOUS LOCATION

2. DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Charging (in a non-classified area): 0°C ≤ Tamb ≤ 45 °C
- 2. Only use the battery charger from Scangrip to charge the LED work light.

## IECEx quality assessment report covering entire EX PROOF range



<b>IECEX</b>		IECEx ( Assessment Re			
		RNATIONAL ELECTROTECHI C Certification System for Explo for rules and details of the IECEx Scheme	sive Atmospheres		
QAR Ref. No.:	DE/TPS/QAR1	7.0004/06	Page 1 of 1		
QAR Free Ref. No.:	64.197.17.0059	5.07	Status: Issued		
Details of change:	Re-certification	audit	Date of issue:2023-02-22		
Site(s) audited:	Scangrip A/S		Valid until:2026-02-22		
	Rytterhaven 9 5700 Svendbor Denmark	g	Audit date:2023-02-22		
Issuing ExCB:	TPS - TÜV SÜL	Product Service GmbH			
Manufacturer:	Scangrip A/S Rytherhaven 9	5700 Svendburg			
Location of Manufacturer:	Denmark				
Product information:	Ex-LED light				
Protection concept:	Ex "d", "e", "i"	, "m", "t"			
Related QARs:					
DE/TPS/QAR17.000 DE/TPS/QAR17.000		DE/TPS/QAR17.0004/01 DE/TPS/QAR17.0004/04	DE/TPS/QAR17.0004/02 DE/TPS/QAR17.0004/05		
Related Certificates (	(manual insertion)				
Related Certificates (	automatic linking	)::			
Related Certificates I previous versions:	or				
IECEX TPS 17.00012 IECEX TPS 17.00022 IECEX TPS 17.00032	Kissue: 1	IECEx TPS 17.0001X issue: 1 IECEx TPS 17.0003X issue: 0 IECEx TPS 18.0017X issue: 0	IECEx TPS 17.0002X issue: 0 IECEx TPS 17.0003X issue: 1 IECEx TPS 18.0018X issue: 0		
Comments:	Re-certification	audit			

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



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## NOTIFICATION

PRODUCTION QUALITY ASSURANCE NOTIFICATION

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

Notification number:

#### TPS 17 ATEX Q 54006 0008 Rev. 04

[4] Equipment or Component as listed: see schedule

Protection concepts: see schedule

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

(SCANGRIP

- Site(s) audited: [6]
- Scangrip A/S Rytterhaven 9 5700 Svendborg, Denmark
- 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.
- This notification is based on the confidential audit with report no. 64.197.17.00594.07. [8]

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.

- This notification is valid until 14.01.2026 and can be withdrawn if the manufacturer does not [9] 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

Ing. Frank Zhu, MSc.

München, 21.02.2023

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#### SCHEDULE

#### PRODUCTION QUALITY ASSURANCE NOTIFICATION

#### No. TPS 17 ATEX Q 54006 0008 Rev. 04

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

[11]

[12]

EU-Type Examination Certificate(s)	Equipment or Protective System or Component	Protection Concepts
TÜV IT 16 ATEX 081 X Rev.1	Electrical equipment Group II Category 2G, 2D Rechargeable work light	Ex "db", "eb", "mb" and "tb"
TÜV IT 16 ATEX 082 X Rev.1	Electrical equipment Group II Category 2G, 2D AC work light	Ex "db", "eb", "mb" and "tb"
TÜV IT 16 ATEX 083 X Rev.3	Electrical equipment Group II Category 1G, 1D Or 2G, 2D Handheld rechargeable work light	Ex "ib" or Ex"ia"
TPS 18 ATEX 054006 0014X Rev.01*	Electrical equipment Group II Category 3G, 3D Rechargeable EX PROOF head lamp with sensor function	Ex 'ic"
TPS 18 ATEX 054006 0015X Rev.01*	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 TDV SDD Product Service GmbH, notified no. 0123 along the CE marking

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CE Declaration of conformity

# CE



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#### **EU Declaration of Conformity**

Year in which CE Mark was first affixed: 2018

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: NIDI-EX
 EQUIPMENT:

 Rechargeable handheld EX PROOF work light

 MARKING:
 II 3G Ex Is IIC T5 Gc

 II 3D Ex is III CT 100°C Dc

 Charger: Input 100-240V AC 50/60Hz, Output SV 1A DC Class II

 Batter: 3, 34 500mAb Lifuin, Specifications: Main light 100/200Lm, Spot light 100Lm, IP65, Operating temp range-20° +45° C

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 LES 60279-0.2018 EN 60079-13:2012 EN 60079-28:2015

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 SÜD Product Testing GmbH, NB 0123, certificate No. TPS I ATEX 565000 6015 X xxx

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

Jaseflez Jasar Elezaj

Quality Manager & Ex-protection representative



#### ATEX Ex Marking:



#### 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
(x3)	Specific symbol of ATEX directive 2014/34/EU, given in the Annex II of the directive
Ш	Group of the equipment. Group II refers to equipment for use in an explosive gas & dust
	atmosphere other than mines susceptible to firedamp
3	Category of the equipment subjected of certification, category 3
G	Presence of potentially explosive atmospheres of gas, vapours, mist
D	Presence of potentially explosive atmospheres of dusts and flyings
Ex ic	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 ic	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
TS	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
T100°C	The limit for maximum surface temperature where a equipment is installed in explosion atmospheres dust
Gc	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
Dc	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.xxxx	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





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