SCANGRIP®
INNOVATION FROM DENMARK

# EX-VIEW

03.5606/03.5606AU/03.5606UK / Certificates

EX-VIEW 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 ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
TÜV SÜD

Product Service

(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 0014 X Rev. 00**

(4) Equipment or Protective System:
Rechargeable EX PROOF head lamp with sensor function
- Type: EX-VIEW 03.5606

(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.

(8) TÜV SÜD 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. 64.105.18.01767.01

(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**

(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 Office Of Explosion Protection München, 16.11.2018

Ing. Kristof De Gersem, MSc.



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: EXBA 054006 0014 Rev. 00



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

A4 / 07.17

(13) **Schedule**

(14) **Type Examination Certificate no.**

**TPS 18 ATEX 054006 0014 X Rev. 00**

Product Service

**Certificate History**

| Revision: | Description: | Report no.: | Issue Date: |
|---|---|---|---|
| Rev. 00 | First issue. | 64.105.18.01767.01 | 16.11.2018 |
| | | | |

(15) Description of equipment:

The Rechargeable EX PROOF headlamp is designed as intrinsic safety type 'ic' and protected by an enclosure with IP65 degree. The head lamp contains front and back covers, bracket, LED module, control circuit module, battery pack, IR sensor module. The covers and bracket are made with injection moulding process with anti-static ABS/ABS+PC resin. The transparent part of front cover and the front decorative part are made with injection moulding process with PC. All external fasteners are made of the material of 304 stainless steel. The heat sink for LED inside of the enclosure is made by ADC12 Aluminium alloy with die cast process. LED control is I.S. circuit. The battery pack contains a rechargeable Li-ion Battery, with two options of the battery manufacturers. The light has a switch for IR sensor at left, and a switch at right to control on/off of light with three levels – spot light, flood light and off. There is a charging port at lower centre of light with the cover of 6063 Aluminium alloy. Charging status is indicated by indicator LED, showing red during charging and 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<br>-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<br>ZJ902554, 3.8V, 1600mAh, 6.08Wh |

*for head lamp with battery WT 902554-1S
**for head lamp with battery ZJ902554

Warning label:

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



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Doc. Name: Temp-ExMBG-TPS-Type-Cert-Iss.01-2018

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

A4 / 07.17

(13) **Schedule**

(14) **Type Examination Certificate no.**

**TPS 18 ATEX 054006 0014 X Rev. 00**

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): 64.105.18.01767.01

Routine tests: None

(17) Document List:

| File no.: | Description: | Pages: | Rev: | Date: |
|---|---|---|---|---|
| / | Manufacturer's Declaration Of Conformity (Draft) | 1 | / | / |
| 20212450 | product drawing | 3 | 1.0 | 2018-10-21 |
| 11273090A | -Ex Nameplate content | 1 | 1.0 | 2018-10-21 |
| 20212450 | BOM | 1 | 1.0 | 2018-10-24 |
| 10806770A | PCBA | / | 1.0 | 2018-07-20 |
| 10806770A-1 | -EX ALSHeadLamp Control board BOM | 1 | 1.0 | 2018-07-20 |
| 10806770A-2 | -EX ALSHeadLamp Reaction Board layout | 1 | 1.0 | 2018-07-20 |
| 10806770A-3 | -EX ALSHeadLamp control Board layout | 1 | 1.0 | 2018-07-20 |
| 10806770A-4 | -EX ALSHeadLamp schematic drawing | 1 | 1.0 | 2018-07-20 |
| 11273150A | USER INSTRUCTION | 9 | 1.0 | 2018-10-24 |

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

(18) 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 LED head lamp.

(19) Essential health and safety requirements:

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



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Doc. Name: Temp-EXHBG-TPS-Type-Cert-Iss.01-2018

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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 18.0017X | Issue No: 0 | Certificate history: Issue No. 0 (2018-12-12) |
| Status: | **Current** | Page 1 of 3 | |
| Date of Issue: | **2018-12-12** | | |

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

Equipment: **Rechargeable EX PROOF head lamp with sensor function - Type: EX-VIEW 03.5606**
*Optional accessory:*

Type of Protection: **intrinsic safety**

Marking:
Ex ic IIC T5 Gc

Ex ic IIIC T100°C Dc

*Approved for issue on behalf of the IECEx Certification Body:* Ing. Kristof De Gersem MSc.

*Position:* Technical Certifier

*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 the Official IECEx Website.

Certificate issued by:

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

Product Service

# IECEx Certificate of Conformity

| | | |
|---|---|---|
| Certificate No: | IECEx TPS 18.0017X | Issue No: 0 |
| Date of Issue: | **2018-12-12** | Page 2 of 3 |
| Manufacturer: | **Scangrip A/S**<br>Rytterhaven 9 5700 Svendburg<br>**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**<br>Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
| **IEC 60079-11 : 2011**<br>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/ExTR18.0012/00

Quality Assessment Report:

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

# IECEx Certificate of Conformity

Certificate No: IECEx TPS 18.0017X Issue No: 0

Date of Issue: 2018-12-12



**Schedule**

**EQUIPMENT:**

*Equipment and systems covered by this certificate are as follows:*

The Rechargeable EX PROOF headlamp is designed as intrinsic safety type 'ic' and protected by an enclosure with IP65 degree. The head lamp contains front and back covers, bracket, LED module, control circuit module, battery pack, IR sensor module.

The covers and bracket are made with injection moulding process with anti-static ABS/ABS+PC resin. The transparent part of front cover and the front decorative part are made with injection moulding process with PC. All external fasteners are made of the material of 304 stainless steel. The heat sink for LED inside of the enclosure is made by ADC12 Aluminium alloy with die cast process. LED control is I.S. circuit. The battery pack contains a rechargeable Li-ion Battery, with two options of the battery manufacturers. The light has a switch for IR sensor at left, and a switch at right to control on/off of light with three levels – spot light, flood light and off. There is a charging port at lower centre of light with the cover of 6063 Aluminium alloy. Charging status is indicated by indicator LED, showing red during charging and 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<br>-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<br>ZJ902554, 3.8V, 1600mAh, 6.08Wh |

*for head lamp with battery WT 902554-1S

**for head lamp 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 head lamp.

# IECEx quality assessment report covering entire EX PROOF range



# IECEx Quality Assessment Report Summary

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
## IEC Certification Scheme for Explosive Atmospheres

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

| | | | |
|---|---|---|---|
| **QAR Reference No.** | DE/TPS/QAR17.0004/01 | **Status** | Current |
| **QAR Free Ref. No.** | 64.197.17.00595.02 | **Date of issue** | 2018-05-23 |
| **Detail of change** | Surveillance audit and change protection concepts | **Valid until** | 2020-02-07 |
| **Site(s) audited** | Scangrip A/S, Rytterhaven 9 5700 Svendborg, Denmark | **Audit date** | 2018-05-16 |
| **Issuing ExCB** | TPS - TÜV SÜD Product Service GmbH | | |
| **Manufacturer** | Scangrip A/S, 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

**Related Certificates (manual insertion)** N/A

**Related Certificates (automatic linking)**

IECEx TPS 18.0017X issue: 0 IECEx TPS 18.0018X issue: 0

**Related Certificates for previous versions**

IECEx TPS 17.0001X issue: 0 IECEx TPS 17.0002X issue: 0 IECEx TPS 17.0003X issue: 0 IECEx TPS 18.0017X issue: 0
IECEx TPS 18.0018X issue: 0

**Comments**

N/A

CE Declaration of conformity

CE

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**Scangrip Lighting**

CE CE

# 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 responsibility for the product:**

| | |
|---|---|
| **Product Range:** | **BRAND: SCANGRIP**<br>**NAME: EX-VIEW**<br>**EQUIPMENT:**<br>Rechargeable EX PROOF headlamp with sensor function<br><br>**MARKING:**<br>**II 3G Ex ic IIC T5 Gc**<br>**II 3D Ex ic IIIC T100°C Dc**<br><br>Charger: Input 100-240V AC 50/60Hz, Output 5V 1A DC Class II<br>Battery: 3,8V 1600mAh Lithium,<br>Specifications: Main light 200Lm, Spot light 100Lm, IP65,<br>Operating temp range -20° +45° C |
| **Product Code:** | **03.5606** |

**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+A1:2013
EN 60079-11:2012
EN 60079-28:2015

**Low voltage (LVD) Directive 2014/35/EU**
EN 60598-1:2015
EN 60598-2-4:2018
EN 62471:2008

**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 SÜD Product Testing GmbH, NB 0123, certificate No. TPS 18 ATEX 003313 xxx 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 9001:2015 is certified: Bureau Veritas, Certificate Nr. DK009406**

**This declaration of conformity is issued under our sole responsibility.**

**Date: 08.11.2018**

Anders Borring
Managing Director and Owner

SCANGRIP.COM

DESIGNED BY
SCANGRIP
IN DENMARK

V1/14.01.2019/kks

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