

Centurion



Intrinsically Safe Head Light

Model: EX-2680

Factory Code: 330619

HS Code: 8536610000

II 2G ib op is IIC T4 Gb

II 2D ib op is IIIC T130°C Db



Technical Detail:

| | |
|---------------------------------------|---|
| - Type of Protection: | “ib” Intrinsically safety, |
| - Areas of Classification (Gases): | Zone 1 and 2, Gas Groups: IIA, IIB, and IIC |
| - Areas of Classification (Dusts): | Zone 21 and 22, Dust Groups: IIIA, IIIB, and IIIC |
| - Temperature Classification (Gases): | T4 |
| - Temperature Classification (Dusts): | 130°C |
| - Ambient Temperature: | -20°C ~ + 40°C |
| - Beam Type: | Spot |
| - Beam Distance: | 76 Meters |
| - Output: | 100 Lumens (<i>effective lumens</i>) |
| - Light Duration: | Up to 8 hours |
| - Light Source Type: | LED bulb |
| - Power: | 6V 1.8W |
| - Power Source: | 4 X LR6(AA) Alkaline batteries |
| - Ingress Protection: | IP68 |
| - Impact Resistant: | 1.8 Meters |
| - Product Weight: | 173g (without batteries) |
| - Dimension: | 102*91*57mm |
| - Packing: | 40 pieces per carton, size: 49*23*42cm |

Integrating Sphere for checking the effective lumen



This EX-2680 Intrinsically Safe Headlamp is ATEX Directive certified for safe use in hazardous locations in zones 1, 2, and zones 21, 22. IP68 waterproof and dustproof.

The tilt adjustment mechanism of the headlight allows the user to angle the light and the bespoke optics provide a wide beam suitable for close-range hands-free tasks and is designed for one-hand switching. Equipped with an adjustable removable fabric headband and rubber band makes it suitable for different types of helmets.


*Helmet is sold separately.



Effective Lumens is a measure of the actual output of light; it takes into consideration electrical and real-world losses (ex. Thermal, optical, and assembly), so it is the best of produced.

Reference link: <https://www.jwspeaker.com/blog/raw-lumens-vs-effective-lumens/>

Centurion**EXPLOSION PROOF TECHNICAL DATA SHEET****Intrinsically Safe Head Light****Model : EX-2680****Factory Code : 330619****HS Code : 8536610000****Technical Details :**

Ex Mark :  II 2G Ex ib IIC T4 Gb
II 2D Ex tb IIIC T130°C Db IP68

Type of Protection : 'ib' Intrinsically safe, 'tb' Dust Ignition Protection by Enclosure

Area of Classification (Gases) : Zones 1 and 2, Gas Groups IIA, IIB, IIC

Temp. Classification (Gases) : T4

Area of Classification (Dusts) : Zones 21 and 22, Dust Groups IIIA, IIIB, IIIC

Max. Surface temp.(Dusts) : 130°C

Ambient Temperature : -20°C to +40°C

Beam Type : Spot

Light Source Type : LED Bulb

Power : 6V 1.8W

Output : 100lm

Beam Distance : 76m

Power Source : 4AA Alkaline cells

Light Duration : Up to 8hrs

Ingress Protection : IP68

Impact Resistant : 1.8m

Weight : 0.173KG (w/o battery)

Packing : 40pcs/carton, size : 49*32*42cm

The Intrinsically Safe Head Light EX-2680 is for hands-free lighting, especially where it is difficult to access, need to climb or crawl to safety use in Zones 1 and 2 explosive gas atmospheres, and Zones 21 & 22 potentially explosive dust atmospheres.

The tilt adjustment mechanism of the headlight allows the user to angle the light and the bespoke optics provide a wide beam suitable for close-range hands-free tasks and is designed for one-hand switching and waterproof / dustproof of the IP68. Equipped with adjustable removable fabric head band and rubber band make it suitable for different types of helmet.

Features & Benefits :

- Design for Zones 1 and 2 explosive gas atmospheres, and Zones 21 & 22 potentially explosive dust atmospheres, to T4 temperature class
- LED light source
- One hand switch
- Hands-free operation
- IP68 waterproof and dustproof
- Adjustable, removable headband
- Tilt adjustment for light direction



Certificato di esame UE del tipo

EU-type examination certificate

n. ECM 19 ATEX 5966



Rilasciato ai sensi della direttiva 2014/34/UE – Allegato III - Modulo B

Issued according to 2014/34/EU Directive – Annex III - Module B

Richiedente

Applicant

Ragione Sociale / Company Name: Foshan Shunde Junying Hardware & Electrical Appliance Co., Ltd.
 Indirizzo / Address: No.2 East Road4, Jiangyi Avenue, Leliu, Shunde, Foshan, Guangdong, P.R. CHINA
 Luogo di produzione / Place of production: No.2 East Road4, Jiangyi Avenue, Leliu, Shunde, Foshan, Guangdong, P.R. CHINA
 Apparecchiatura / Equipment: Explosion Proof Head Light

Questa apparecchiatura o sistema di protezione e le sue eventuali varianti accettate sono descritte nel presente Certificato e nell'allegato dello stesso. This equipment or protective system and any acceptable variation thereto are described in this Certificate and its Annex.

L'ECM, Organismo Notificato n° 1282 in conformità all'art. 17 della Direttiva 2014/34/UE del Parlamento europeo e del Consiglio del 26 febbraio 2014, certifica che questa apparecchiatura o sistema di protezione verificata secondo la procedura di cui all'allegato III, Modulo B, è conforme ai requisiti essenziali di sicurezza e salute per il progetto e la costruzione di apparecchiature e sistemi di protezione destinati ad essere utilizzati in atmosfere potenzialmente esplosive, definiti nell'allegato II della Direttiva. ECM, Notified Body No. 1282 in accordance with Article. 17 of Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment or protective system was tested according to the procedure set out in Annex III, Module B, complies with the essential health and safety requirements for the project and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II of the Directive.

Le verifiche ed i risultati di prova sono registrati nel rapporto a carattere riservato n° PRD-2019-FSJCN66. The examination and test results are recorded in confidential report no. PRD-2019-FSJCN66.

I requisiti essenziali di sicurezza e salute sono assicurati dalla rispondenza alle Norme applicate: EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-28:2015. The essential health and safety requirements are assured by compliance with applied Standard: EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-28:2015

Questo Certificato di esame UE del tipo è relativo soltanto al progetto, all'esame ed alle prove dell'apparecchiatura o sistema di protezione specificato in accordo con la Direttiva 2014/34/UE. Ulteriori requisiti di questa Direttiva si applicano al processo di produzione e fornitura dell'apparecchiatura o sistema di protezione: questi requisiti non sono oggetto del presente certificato. This EU-type examination certificate relates only to the design, examination and tests specified equipment in accordance with Directive 2014/34/EU. Further requirements of the Directive shall be applied to the manufacturing process and supply condition: these requirements are not covered by this certificate.

L'apparecchiatura o il sistema di protezione deve riportare i seguenti contrassegni:

The equipment shall be marked with the following symbols:



II 2G ib op is IIC T4 Gb
II 2D ib op is IIIC T130°C Db

Valsamoggia (BO)

Data - Date: 29/10/2019

Timbro

Scadenza- Expiry date: 28/10/2024



Firma autorizzata

Authorized signature

Amanda Payne
(Deputy Manager)

Questo certificato, incluso l'allegato, può essere riprodotto solo integralmente e senza alcuna variazione.

This certificate, annex included, can only be reproduced in its entirety and without any change.



Allegato I / Annex I

al Certificato di esame UE del tipo
to EU-type-examination certificate
n. **ECM 19 ATEX 5966**



Descrizione dell'apparecchiatura

Equipment description

Explosion Proof Head Light

Model: EX-2600, EX-2680, EX-2681, EX-2682, EX-2800, EX-2880, EX-2881, EX-2882, AT-2600, AT-2680, AT-2800, AT-2880

Rapporto di verifica e di prova

Verification and test report

SCC(19)-50012A-11-1-10-ATEX



CERTIFICATE OF CONFORMITY

EU - Restriction of the use of certain hazardous substances (RoHS) -
No. CTB210106008CX-ZS

Applicant : Foshan Shunde Junying Hardware & Electrical Appliance Co., Ltd
Address : No.2 East Road4, Jiangyi Avenue, Leliu, Shunde, Foshan, Guangdong,
P.R.CHINA
Manufacturer : Foshan Shunde Junying Hardware & Electrical Appliance Co., Ltd
Address : No.2 East Road4, Jiangyi Avenue, Leliu, Shunde, Foshan, Guangdong,
P.R.CHINA
Product : Explosion Proof Lighting Equipment
Trade Name : N/A
Model(s) : See page 2
Test Report No. : CTB210106008CX
Test Standards : IEC 62321-5:2013, IEC 62321-4:2013+A1:2017
IEC 62321-7-2:2017 & IEC 62321-7-1:2015
IEC 62321-6:2015, IEC 62321-8:2017

The test results based on the above specified products comply with the EU RoHS Directive 2011/65 / EU Appendix II Amendment Directive (EU) 2015/863 limit requirements.

The test results apply only to the particular sample tested and to the specific tests carried out. Specifically to the sample investigated in our test reference number only.

Other relevant Directives have to be observed.



Peter Chen (Chief engineer)
January 06, 2021



Shenzhen CTB Testing Technology Co., Ltd

Add: Floor 1&2, Building A, No. 26 of Xinhe Road, Xinqiao Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China

Web: [http:// www.ctb-lab.net](http://www.ctb-lab.net) Tel: 4008-707-283 Email: ctb@ctb-lab.net

CERTIFICATE OF CONFORMITY

EU - Restriction of the use of certain hazardous substances (RoHS) -

No. CTB200426006CX-ZS

Series models as below (page 2) :

| | |
|-------------------|--|
| Model(s) : | EX-4DC, EX-4DCL, EX-250R, EX-250RL, AT-1080, AT-1280, AT-1380, AT-1580, AT-1680, AT-1780, AT-1880, EX-2280, EX-2380, AT-2280, AT-2380, EX-2600, EX-2680, EX-2681, EX-2682, EX-2800, EX-2880, EX-2881, EX-2882, AT-2600, AT-2680, AT-2800, AT-2880, EX-2700, EX-2780, EX-2780-R, EX-2900, EX-2980, EX-2980-R, EX-4600, EX-4680, AT-1800, AT-4600, AT-4680, AT-3600, AT-3680, EX-4700, EX-4780, EX-4800, EX-4880, EX-4900, EX-4980, EX-5100, EX-5180, EX-5200, EX-5280, EX-5300, EX-5380, EX-6100, EX-6180, EX-6280, EX-6300, EX-6380, EX-7100, EX-7180, EX-7200, EX-7280, EX-1120, EX-1220, EX-1140, EX-1240, EX-2120, EX-2220, EX-2140, EX-2240, EX-109L, EX-209L, EX-116L, EX-216L, BAL-1200, BTL-2400, ALED-100P, BAL-1200L, BTL-2400L, EX-14105, EX-14105/D, EX-14105/2, EX-14105/3, EX-14105/4, EX-5516/D, EX-5516/D/4h, EX-5516/L, EX-5516/L/4h, EX-5516/R, EX-5516/R-4h, EX-5516/ST, EX-5516/ST/4h, 100530, EX-505, EX-505/D, EX-505/2, EX-510/D, EX-510/2, EX-510/3, EX-510/4 |
|-------------------|--|

The test results based on the above specified products comply with the EU RoHS Directive 2011/65 / EU Appendix II Amendment Directive (EU) 2015/863 limit requirements.

The test results apply only to the particular sample tested and to the specific tests carried out. Specifically to the sample investigated in our test reference number only.

Other relevant Directives have to be observed.



Peter Chen (Chief engineer)

January 06, 2021



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Certificate of Compliance

No. 0B180813.FSJDN88

Test Reports no. SCC(18)-50008A-6-10-EMC

Certificate's
Holder:

Foshan Shunde Junying Hardware &
Electrical Appliance Co., Ltd.
No.2 East Road 4, Jiangyi Avenue, Leliu, Shunde,
Foshan, Guangdong, P. R. China

Certification ECM
Mark:



Product:
Model(s):

Explosion Proof Head Light (Flashlight)
EX-2600, EX-2680, EX-2700, EX-2780,
EX-2780-R, EX-2800, EX-2880, EX-2900,
EX-2980, EX-2980-R, AT-2600, AT-2680,
AT-2800, AT-2880, EX-6280, EX-6300, EX-6380

Verification to:

Standard:
EN 55015:2013+A1:2015,
EN 60529:1992+A2:2013, EN 61547:2009,
EN 61000-3-2:2014, EN 61000-3-3:2013

related to CE Directive(s):
2014/30/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the **CE** Marking:



We attest that a TCF for the **CE** Marking process is in place. Whereas the Manufacturer is Responsible to start the **CE Marking Certification Procedure** and to perform all the necessary activities, as required by the Directive before placing the **CE** Mark on the product(s).

Date of issue 13 August 2018

Expiry date 12 August 2023

Chief Manager
Marta Morina

Deputy Manager
Amanda Payne

Ente Certificazione Macchine Srl

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