ZERTIFIKAT ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT

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 17 ATEX 059 X Rev.2

[4] Equipment: Safety Lamp
Model no.: WISDOM LAMP 6A-01, WISDOM LAMP 6B-01, WISDOM LAMP 6C-01, WISDOM LAMP 6D-01, WISDOM LAMP 6 Plus

[5] Manufacturer: **NEW WISDOM INVESTMENT LIMITED**

[6] Address: ROOM 1501 GRAND MILLENNIUM PLAZA (LOWER BLOCK)181 QUEEN'S ROAD CENTRAL - HONG KONG

[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 17 EX 046 Rev.2

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

EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-35-1:2011

[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:

I M1 Ex ia I Ma EN 60079-35-1 (0°C≤Ta≤40°C)

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Issue date: 17th November 2025
1st Issue date: 07th November 2017

PRODUCT CERTIFICATION ACCREDIA
00077

TÜV Italia Srl Industrie Service 09 48 Notified Body

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

Alberto Carelli
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 system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722402632.

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Italia

[13] # SCHEDULE

[14] ## EU-TYPE EXAMINATION CERTIFICATE
no. TÜV IT 17 ATEX 059 X Rev.2

Certificate History

Revision:	Description:	Report rev.:	Issue Date:
-	First issued	-	07/11/2017
1	Second upgrade: 1. Rename the product 2. Add models 3. Alternative IC2 “TP5602” added 4. Alternative LED source for LED1 added. 5. Alternative types of battery added.	1	16/02/2019
2	Third upgrade: Update the standard to EN IEC 60079-0:2018 and delete the standard EN 60079-28:2015	2	17/11/2025

[15] **Description of equipment**

WISDOM LAMP 6 series are cordless caplights for use in mines. These caplights are Group I Equipments with EPL Ma. They have the same headpiece enclosure. All components including batteries and PCB are located inside. They are supplied by single Li-ion battery or two Li-ion batteries in parallel. All of them have the same circuit diagram and PCB layout. The difference between the models are the numbers of batteries, type reference of Li-ion batteries and some resistor values. See model difference in the following table.

Model no.	Rated voltage	Battery type reference	Battery number	Rated capacity	R12(Ω)	R17(Ω)	R22(Ω)
WISDOM LAMP 6A-01, WISDOM LAMP 6 Plus	3.7 V d.c.	NCR18650B, NCR18650BF or NCR18650PF	2	≥ 5400 mAh	22 KΩ	0.02 Ω	10.2 KΩ
WISDOM LAMP 6B-01	3.7 V d.c.	UR18650ZY, NCR18650BF or NCR18650PF	2	≥ 5000 mAh	53.6 KΩ	0.02 Ω	10.2 KΩ
WISDOM LAMP 6C-01	3.7 V d.c.	NCR18650B, NCR18650BF or NCR18650PF	1	≥ 2700 mAh	22 KΩ	0.04 Ω	10.5 KΩ
WISDOM LAMP 6D-01	3.7 V d.c.	UR18650ZY, NCR18650BF or NCR18650PF	1	≥ 2500 mAh	62 KΩ	0.04 Ω	10.2 KΩ

The WISDOM LAMP 6 Plus and the WISDOM LAMP 6A-01 are functionally and electrically equivalent, differing exclusively in the design of their reflector cups.

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Italia

[13] # SCHEDULE

[14] ## EU-TYPE EXAMINATION CERTIFICATE
no. TÜV IT 17 ATEX 059 X Rev.2

Rated characteristics

Model:	WISDOM LAMP 6A-01, WISDOM LAMP 6 Plus	WISDOM LAMP 6B-01	WISDOM LAMP 6C-01	WISDOM LAMP 6D-01
Rated Voltage:	3.7 V d.c.			
Rated battery capacity:	≥5400 mAh	≥5000 mAh	≥2700 mAh	≥2500 mAh
Operating temperature:	0 °C ≤Ta≤ +40 °C			
Charging Temperature (in non-hazardous location):	0 °C ≤Ta≤ +40 °C			
Degree of protection by enclosure:	IP54 (tested according to EN IEC 60079-0)			

Warning label

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

[16] **Report no.** R 17 EX 046 Rev.2

Routine tests

None.

[17] **Special conditions for safe use**

1) Operating temperature: 0 °C⩽Ta⩽ +40 °C.

2) Charging temperature(in non-hazardous location): 0 °C⩽Ta⩽ +40 °C.

3) Only use the battery charger from NEW WISDOM to charge the caplight. Model no. NWB-30, input voltage: 100~240 V, 50/ 60 Hz, 1 A; Output: 6.8 V d.c., 0.5 A.

4) Charging parameter: Um=7.56 V, Im=0.5 A.

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[13] **SCHEDULE**

[14] **EU-TYPE EXAMINATION CERTIFICATE**
no. TÜV IT 17 ATEX 059 X Rev.2

[18] **Essential Health and Safety Requirements**

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

[19] **Drawings and Documents**

Listed documents (prot. 722186481 + 722144120 + 722402632)

Title:	Description:	Pages:	Rev:	Date:
NW-SCH-SCH002-EX	Circuit diagram	2	A1	2018-07-03
NW-PCB-NW003-EX	PCB layout	7	A0	2017-06-08
NW-002-EX	Model difference	1	A1	2019-02-25
NW2000-LAMP 6 Series-MK-01	*Marking plate	1	A0	2025-10-29
NW-SMS-BZN086	*User manual	16	A1	2025-10-28
NW-WL6-R&D001-EX	Product description	3	A1	2019-02-25
CLD-DS51	Cree XLamp XP-G2 LEDs	14	10C	-
CLD-DS149	Cree XLamp XP-L2 LEDs	26	0J	-
NCR18650-426	Battery specification NCR18650BF	16	-	2014-05-14
NCR18650-281	Battery specification NCR18650PF	15	-	2013-03-25

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

*(Note: * indicates the files that were updated in this certificate renewal.)*

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